

SCADA WATER LEVEL MONITOR

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SCADA WATER LEVEL MONITOR CODE

SCADA WATER LEVEL MONITOR SCREENSHOTS

SCADA WATER LEVEL MONITOR

Email Address

Password

LOGIN

No account yet? Create one

SCADA WATER LEVEL MONITOR

Enter Email Address

Enter Phone Number

Enter Password

SIGN UP

You have an account? Log in



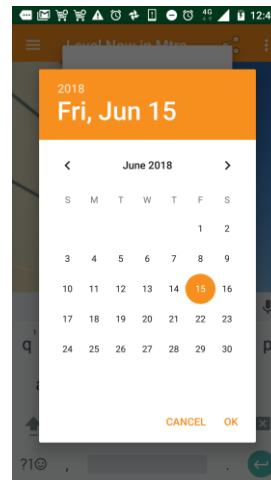
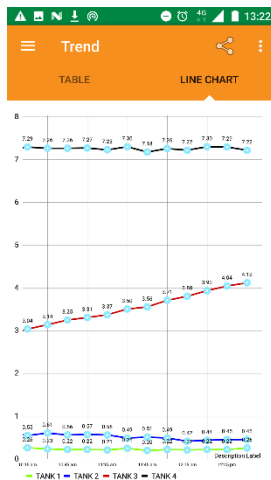
Trend

TABLE LINE CHART

REFRESH

DATES	TANK 1	TANK 2	TANK 3	TANK 4
2018-06-14 13:00:01	0.22	0.45	4.04	7.29
2018-06-14 12:45:00	0.22	0.44	3.93	7.30
2018-06-14 12:30:02	0.21	0.42	3.80	7.22
2018-06-14 12:15:07	0.22	0.49	3.71	7.26
2018-06-14 12:00:02	0.20	0.51	3.56	7.18
2018-06-14 11:45:03	0.25	0.49	3.50	7.30
2018-06-14 11:30:02	0.21	0.56	3.37	7.23
2018-06-14 11:15:01	0.22	0.57	3.31	7.27
2018-06-14 11:00:01	0.22	0.56	3.25	7.26
2018-06-14 10:45:00	0.23	0.61	3.14	7.26
2018-06-14 10:30:00	0.26	0.55	3.04	7.29
2018-06-14 10:15:01	0.23	0.62	2.91	7.22
2018-06-14 10:00:01	0.23	0.65	2.81	7.28
2018-06-14 09:45:00	0.22	0.62	2.71	7.30
2018-06-14 09:30:00	0.26	0.72	2.18	7.36

Tank data is populating, kindly wait for 10 seconds



Choose Date Range

8/6/2018

15/6/2018

OK

q w e r t y u i o p

a s d f g h j k l

z x c v b n m

JAVA CODE

Loading Page

```
package com.example.klilian.menudrawer;

import android.content.Intent;
import android.os.Bundle;
import android.support.v7.app.AppCompatActivity;

public class Loading_page extends AppCompatActivity {
    Intent myintent;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.loading_page);
        new Thread(new Runnable() {
            public void run() {
                try {

                    Thread.sleep(3000);

                    myintent = new Intent(getApplicationContext(), Login.class);

                    startActivity(myintent);
                    finish();
                } catch (InterruptedException e) {
                    e.printStackTrace();
                }
            }
        }).start();
    }
}
```

SignUp

```
package com.example.klilian.menudrawer;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.preference.PreferenceManager;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
import android.widget.Toast;

import com.loopj.android.http.AsyncHttpClient;
import com.loopj.android.http.AsyncHttpResponseHandler;
import com.loopj.android.http.RequestParams;

public class SignUp extends AppCompatActivity {
    Button btn;
    TextView t;
    EditText email, phone, pass;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.signup);

        SharedPreferences preferences = PreferenceManager.getDefaultSharedPreferences(this);
```

```

String name = preferences.getString("signedup", "");
if(!name.equalsIgnoreCase(""))
{
    Intent i = new Intent(SignUp.this, Login.class);
    startActivity(i);
    finish();
}
else
{
}

btn = (Button) findViewById(R.id.btn);
t=(TextView) findViewById(R.id.signup);
email = (EditText) findViewById(R.id.email);
phone = (EditText) findViewById(R.id.phone);
pass = (EditText) findViewById(R.id.passwords);
t.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View view) {
        Intent i = new Intent(SignUp.this, Login.class);
        startActivity(i);
        finish();
    }
});
btn.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        AsyncHttpClient client = new AsyncHttpClient();
        RequestParams params = new RequestParams();
        params.put("email", email.getText().toString());
        params.put("phone", phone.getText().toString());
        params.put("password", pass.getText().toString());
        client.post("http://scada.co.ke/scada/sign.php", params, new
AsyncHttpResponseHandler() {
            @Override
            public void onSuccess(String content) {
                super.onSuccess(content);
                String aha = content.toString();
                if (aha.equals("Success")) {
                    SharedPreferences preferences =
PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
                    SharedPreferences.Editor editor = preferences.edit();
                    editor.putString("signedup", "true");
                    editor.apply();
                    Intent i = new Intent(SignUp.this, Login.class);
                    startActivity(i);
                    finish();
                }
                else
                {
                    Toast.makeText(getApplicationContext(), "Internet Connection
Required", Toast.LENGTH_LONG).show();
                }
            }
            @Override
            public void onFailure(Throwable t, error, String content) {
                super.onFailure(error, content);
                Toast.makeText(getApplicationContext(), "Failed",
Toast.LENGTH_LONG).show();
            }
        });
    }
});
}
}

```

Login

```

package com.example.klilian.menudrawer;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.preference.PreferenceManager;
import android.support.v7.app.AppCompatActivity;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.TextView;
import android.widget.Toast;

import com.loopj.android.http.AsyncHttpClient;
import com.loopj.android.http.AsyncHttpResponseHandler;
import com.loopj.android.http.RequestParams;

public class Login extends AppCompatActivity {
    Button signup;
    TextView link;
    EditText email, password;
    ListView l;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        SharedPreferences preferences = PreferenceManager.getDefaultSharedPreferences(this);
        String loggedin = preferences.getString("login", "");
        if(!loggedin.equalsIgnoreCase(""))
        {
            Intent i = new Intent(Login.this, MainActivity.class);
            startActivity(i);
            finish();
        }

        setContentView(R.layout.login);
        signup = (Button) findViewById(R.id.login);
        link = (TextView) findViewById(R.id.signupllink);
        email = (EditText) findViewById(R.id.mail);
        password = (EditText) findViewById(R.id.passenter);
        link.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent i = new Intent(Login.this, SignUp.class);
                startActivity(i);
                finish();
            }
        });

        signup.setOnClickListener(new View.OnClickListener() {
            //onbutton click take text from edittext and send to database
            @Override
            public void onClick(View v) {
                AsyncHttpClient client = new AsyncHttpClient();
                RequestParams params = new RequestParams();
                params.put("email", email.getText().toString()); //take text as string
                params.put("password", password.getText().toString());
                client.post("http://scada.co.ke/scada/plcvalidate.php",
                    params, new AsyncHttpResponseHandler() {

                        @Override
                        public void onSuccess(String content) {
                            super.onSuccess(content);
                            String aha = content.toString();
                            if (aha.equals("Success")) {
                                SharedPreferences preferences =
PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
                                SharedPreferences.Editor editor = preferences.edit();
                                editor.putString("login", "true");

```

[Logout](#)

Designed and developed by CyberNation Kenya

MainActivity

```

package com.example.klilian.menudrawer;

import android.app.DatePickerDialog;
import android.app.Dialog;
import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.preference.PreferenceManager;
import android.support.v4.app.Fragment;
import android.support.v4.widget.DrawerLayout;
import android.support.v7.app.ActionBarDrawerToggle;
import android.support.v7.app.AppCompatActivity;
import android.support.v7.widget.Toolbar;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.ListView;
import android.widget.RelativeLayout;
import android.widget.TextView;
import android.widget.Toast;

import java.util.ArrayList;
import java.util.Calendar;
import java.util.List;

public class MainActivity extends AppCompatActivity {
    DrawerLayout drawerLayout;
    RelativeLayout drawerPane;
    ListView lvNav;
    TextView stdnt, phone, date_text;
    List<NavItem> listNavItems;
    List<Fragment> listfragments;
    ActionBarDrawerToggle actionBarDrawerToggle;
    Toolbar toolbar;
    DatePickerDialog datePickerDialog;
    EditText date, dates;
    static final int READ_BLOCK_SIZE = 100;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);

        setContentView(R.layout.menu_drawer);
        SharedPreferences preferences = PreferenceManager.getDefaultSharedPreferences(this);
        String name = preferences.getString("login", "");
        String to = preferences.getString("to", "");
        String from = preferences.getString("from", "");
        if (!name.equalsIgnoreCase("")) {
            Intent i = new Intent(MainActivity.this, Login.class);
            startActivity(i);
            finish();
        }

        date_text = (TextView) findViewById(R.id.date_text);
        if (!name.equalsIgnoreCase("") && !from.equalsIgnoreCase("")) {
            date_text.setText("Details From " + from + " To " + to);
            Toast.makeText(getApplicationContext(), "Details From " + from + "To " + to,
                Toast.LENGTH_SHORT).show();
        } else {
            final Calendar c = Calendar.getInstance();
            int mYear = c.get(Calendar.YEAR);
            int mMonth = c.get(Calendar.MONTH);

```

```

// current year
// current month

```



```

        int mDay = c.get(Calendar.DAY_OF_MONTH); // current data //
date picker dialog

        date_text.setText("Details To " + mDay + "/" + mMonth + "/" + mYear);
    }

    stdnt = (TextView) findViewById(R.id.student);
    phone = (TextView) findViewById(R.id.phone);
    toolbar = (Toolbar) findViewById(R.id.toolbar);
    setSupportActionBar(toolbar);
    getSupportActionBar().setDisplayHomeAsUpEnabled(true);
    listNavItems = new ArrayList<NavItem>();
    drawerLayout = (DrawerLayout) findViewById(R.id.drawer);
    drawerPane = (RelativeLayout) findViewById(R.id.drawer);
    lvNav = (ListView) findViewById(R.id.listv);

    listNavItems.add(new NavItem("Level Now in Mtrs", "", R.drawable.now));
    listNavItems.add(new NavItem("Trend", "", R.drawable.water_level));
    listNavItems.add(new NavItem("Signout", "", R.drawable.signout));

    NavListAdapter navListAdapter = new NavListAdapter(getApplicationContext(),
R.layout.item_nav_list, listNavItems);
    lvNav.setAdapter(navListAdapter);

    listfragments = new ArrayList<Fragment>();
    listfragments.add(new Now());

    listfragments.add(new Trend());
    listfragments.add(new logout());
    android.support.v4.app.FragmentManager fragmentManager = getSupportFragmentManager();
    fragmentManager.beginTransaction().replace(R.id.main, listfragments.get(0)).commit();
    setTitle(listNavItems.get(0).getTitle());
    lvNav.setItemChecked(0, true);
    drawerLayout.closeDrawer(drawerPane);

    lvNav.setOnItemClickListener(new AdapterView.OnItemClickListener() {
        @Override
        public void onItemClick(AdapterView<?> adapterView, View view, int position, long l)
    {
        android.support.v4.app.FragmentManager fragmentManager =
getSupportFragmentManager();
        fragmentManager.beginTransaction().replace(R.id.main,
listfragments.get(position)).commit();
        setTitle(listNavItems.get(position).getTitle());
        lvNav.setItemChecked(position, true);
        drawerLayout.closeDrawer(drawerPane);
    }
    });
    actionBarDrawerToggle = new ActionBarDrawerToggle(this, drawerLayout,
R.string.drawer_opened, R.string.drawer_closed) {
        @Override
        public void onDrawerOpened(View drawerView) {
            invalidateOptionsMenu();
            super.onDrawerOpened(drawerView);
        }

        @Override
        public void onDrawerClosed(View drawerView) {
            invalidateOptionsMenu();
            super.onDrawerClosed(drawerView);
        }
    };
    drawerLayout.setDrawerListener(actionBarDrawerToggle);
}

@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.mains, menu);
    return true;
}

```

```

    }

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        actionBarDrawerToggle.syncState();
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        if (actionBarDrawerToggle.onOptionsItemSelected(item)) {
            return true;
        }
        int id = item.getItemId();
        if (id == R.id.action_settings) {
            final Dialog dialog = new Dialog(this);
            dialog setContentView(R.layout.datepicker_dialog);
            date = (EditText) dialog.findViewById(R.id.date);
            dates = (EditText) dialog.findViewById(R.id.dates);
            date.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    final Calendar c = Calendar.getInstance();
                    int mYear = c.get(Calendar.YEAR); // current
                    year
                    int mMonth = c.get(Calendar.MONTH); // current
                    month
                    int mDay = c.get(Calendar.DAY_OF_MONTH); // current
                    data // date picker dialog
                    datePickerDialog = new DatePickerDialog(MainActivity.this,
                        new DatePickerDialog.OnDateSetListener() {
                            @Override
                            public void onDateSet(DatePicker view, int year,
                                int monthOfYear, int dayOfMonth) {
                                    date.setText(dayOfMonth + "/"
                                        + (monthOfYear + 1) + "/" + year);
                                    SharedPreferences preferences2 =
                                        PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
                                    SharedPreferences.Editor editor2 = preferences2.edit();
                                    editor2.putString("from", dayOfMonth + "/"
                                        + (monthOfYear + 1) + "/" + year);
                                    editor2.apply();
                                }
                            }, mYear, mMonth, mDay);
                    datePickerDialog.show();
                }
            });

            dates.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    final Calendar c = Calendar.getInstance();
                    int mYear = c.get(Calendar.YEAR); // current
                    year
                    int mMonth = c.get(Calendar.MONTH); // current
                    month
                    int mDay = c.get(Calendar.DAY_OF_MONTH); // current
                    data // date picker dialog
                    datePickerDialog = new DatePickerDialog(MainActivity.this,
                        new DatePickerDialog.OnDateSetListener() {
                            @Override
                            public void onDateSet(DatePicker view, int year,
                                int monthOfYear, int dayOfMonth) {
                                    // set day of month , month and year value in the edit text
                                    dates.setText(dayOfMonth + "/"
                                        + (monthOfYear + 1) + "/" + year);
                                    SharedPreferences preferences =
                                        PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
                                    SharedPreferences.Editor editor = preferences.edit();
                                    editor.putString("to", dayOfMonth + "/"

```

```

        + (monthOfYear + 1) + "/" + year);
        editor.apply();

    }
    }, mYear, mMonth, mDay);
    datePickerDialog.show();
}
});

Button dialogButton = (Button) dialog.findViewById(R.id.dialogButtonOK);
dialogButton.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        SharedPreferences preferences =
PreferenceManager.getDefaultSharedPreferences(getApplicationContext());
        String name = preferences.getString("to", "");
        String loggedin = preferences.getString("from", "");
        if (!name.equalsIgnoreCase("") && !loggedin.equalsIgnoreCase("")) {

            Toast.makeText(getApplicationContext(), name + loggedin,
Toast.LENGTH_SHORT).show();
            Intent intent = getIntent();
            startActivity(intent);
            dialog.dismiss();

        }
    }
});

dialog.show();
} else if (id == R.id.share) {
    Intent sharingIntent = new Intent(android.content.Intent.ACTION_SEND);
    sharingIntent.setType("text/plain");
    sharingIntent.putExtra(android.content.Intent.EXTRA_SUBJECT, "Login to Scada Water
Level Monitor");
    sharingIntent.putExtra(android.content.Intent.EXTRA_TEXT, "Download from
https://play.google.com/store/apps/details?id=com.user.scadacok ");
    startActivity(Intent.createChooser(sharingIntent, "Share via"));
    return true;
}
return super.onOptionsItemSelected(item);
}
}
}

```

MyFagmentAdapter

```

package com.example.klilian.menudrawer;

import android.support.v4.app.Fragment;
import android.support.v4.app.FragmentManager;
import android.support.v4.app.FragmentPagerAdapter;

import java.util.List;

public class MyFagmentPageAdapter extends FragmentPagerAdapter {
    List<Fragment> listFragments;

    public MyFagmentPageAdapter(FragmentManager fm, List<Fragment> listFragments) {
        super(fm);
        this.listFragments=listFragments;
    }

    @Override
    public Fragment getItem(int position) {
        return listFragments.get(position);
    }
}

```

```
@Override
public int getCount() {
    return listFragments.size();
}
}
```

NavItem

```
package com.example.klilian.menudrawer;
public class NavItem {
    private String title;

    public NavItem(String title, String subtitle, int resIcon) {
        this.title = title;
        this.subtitle = subtitle;
        this.resIcon = resIcon;
    }

    private String subtitle;

    public NavItem(String title) {
        this.title = title;
    }

    private int resIcon;

    public String getTitle() {

        return title;
    }

    public void setTitle(String title) {
        this.title = title;
    }

    public String getSubtitle() {
        return subtitle;
    }

    public void setSubtitle(String subtitle) {
        this.subtitle = subtitle;
    }

    public int getResIcon() {
        return resIcon;
    }

    public void setResIcon(int resIcon) {

        this.resIcon = resIcon;
    }
}
```

NavListAdapter

```
package com.example.klilian.menudrawer;

import android.annotation.SuppressLint;
import android.content.Context;
import android.view.View;
import android.view.ViewGroup;
import android.widget.ArrayAdapter;
import android.widget.ImageView;
import android.widget.TextView;

import java.util.List;

public class NavListAdapter extends ArrayAdapter <NavItem>{
```

```

Context context;
int resource;
List<NavItem> listNavItem;
public NavListAdapter(Context context, int resource, List listNavItem) {
    super(context, resource, listNavItem);
    this.context=context;
    this.resource=resource;
    this.listNavItem=listNavItem;
}

@Override
public View getView(int position, View convertView, ViewGroup parent) {
    View v=View.inflate(context, resource, null) ;
    TextView tvTitle=(TextView)v.findViewById(R.id.text3);
    TextView tvsubTitle=(TextView)v.findViewById(R.id.text4);
    ImageView tvImage=(ImageView)v.findViewById(R.id.image2);
    NavItem navItem=listNavItem.get(position);
    tvTitle.setText(navItem.getTitle());
    tvsubTitle.setText(navItem.getSubtitle());
    tvImage.setImageResource(navItem.getResIcon());

    return v;
}
}

```

Now

```

package com.example.klilian.menudrawer;

import android.content.SharedPreferences;
import android.os.Bundle;
import android.preference.PreferenceManager;
import android.support.v4.app.Fragment;
import android.support.v4.widget.SwipeRefreshLayout;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import android.widget.Toast;

import com.loopj.android.http.AsyncHttpClient;
import com.loopj.android.http.AsyncHttpResponseHandler;
import com.loopj.android.http.RequestParams;

public class Now extends Fragment {

    public Now() {
    }
    SwipeRefreshLayout swipeContainer;
    TextView tv, tv1, tv2, tv3;
    String to, from, start, end, tank1, tank2, tank3, tank4;
    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
        View v = inflater.inflate(R.layout.now, container, false);
        tv = (TextView) v.findViewById(R.id.tank1);
        tv1 = (TextView) v.findViewById(R.id.tank2);
        tv2 = (TextView) v.findViewById(R.id.tank3);
        tv3 = (TextView) v.findViewById(R.id.tank4);

        SharedPreferences preferences =
        PreferenceManager.getDefaultSharedPreferences(getContext());

        start = preferences.getString("to", "");
        end = preferences.getString("from", "");
        if (!start.equalsIgnoreCase("") && !end.equalsIgnoreCase("")) {

```

```

        to = start;
        from = end;

    } else {
        to = "";
        from = "";
    }

    SharedPreferences preferences2 =
    PreferenceManager.getDefaultSharedPreferences(getContext());
    tank1 = preferences2.getString("tank1", "");
    tank2 = preferences2.getString("tank2", "");
    tank3 = preferences2.getString("tank3", "");
    tank4 = preferences2.getString("tank4", "");
    if (!tank1.equalsIgnoreCase("") &&
    !tank2.equalsIgnoreCase("") && !tank3.equalsIgnoreCase("") && !tank4.equalsIgnoreCase("")) {

        tv.setText(tank1);
        tv1.setText(tank2);
        tv2.setText(tank3);
        tv3.setText(tank4);

    } else {

        tv.setText("");
        tv1.setText("");
        tv2.setText("");
        tv3.setText("");

        Toast.makeText(getActivity(), "Internet Connection required",
        Toast.LENGTH_SHORT).show();
    }

    swipeContainer = (SwipeRefreshLayout) v.findViewById(R.id.swiperefresh);
    swipeContainer.setOnRefreshListener(new SwipeRefreshLayout.OnRefreshListener() {
        @Override
        public void onRefresh() {
            SharedPreferences preferences =
            PreferenceManager.getDefaultSharedPreferences(getContext());

            String from = preferences.getString("tank", "");
            if (!from.equalsIgnoreCase("")) {
                data_db();
            }
            swipeContainer.setRefreshing(false);
        }
    });
    Toast.makeText(getActivity(), "SWIPE SCREEN DOWN TO REFRESH", Toast.LENGTH_SHORT).show();
    data_db();
    return v;
}

private void data_db(){
    AsyncHttpClient client = new AsyncHttpClient();
    RequestParams params = new RequestParams(); //take text in edittext as string
    params.put("to", to);
    params.put("from", from);
    final SharedPreferences preferences2 =
    PreferenceManager.getDefaultSharedPreferences(getActivity());
    final SharedPreferences preferences3 =
    PreferenceManager.getDefaultSharedPreferences(getActivity());
    final SharedPreferences preferences4 =
    PreferenceManager.getDefaultSharedPreferences(getActivity());
    client.post("http://scada.co.ke/scada/plc.php", params, new AsyncHttpResponseHandler() {
        @Override
        public void onSuccess(String content) {
            super.onSuccess(content);

            String[] datas = content.split("#");

```

```

        String[] row = datas[0].split(",");
        SharedPreferences.Editor editor5 = preferences2.edit();
        editor5.putString("tank1", row[0]);
        editor5.apply();

        SharedPreferences.Editor editor1 = preferences2.edit();
        editor1.putString("tank2", row[1]);
        editor1.apply();

        SharedPreferences.Editor editor2 = preferences3.edit();
        editor2.putString("tank3", row[2]);
        editor2.apply();
        SharedPreferences.Editor editor3 = preferences4.edit();
        editor3.putString("tank4", row[3]);
        editor3.apply();

        tv.setText(row[0]);
        tv1.setText(row[1]);
        tv2.setText(row[2]);
        tv3.setText(row[3]);
    }

    @Override
    public void onFailure(Throwable error, String content) {
        super.onFailure(error, content);

        Toast.makeText(getActivity(), "No internet connection",
            Toast.LENGTH_LONG).show();
    }
}

@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setHasOptionsMenu(true);
}

@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // TODO Add your menu entries here
    super.onCreateOptionsMenu(menu, inflater);
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    return super.onOptionsItemSelected(item);
}
}

```

Trend

```

package com.example.klilian.menudrawer;

import android.content.Context;
import android.os.Bundle;
import android.support.annotation.Nullable;
import android.support.v4.app.Fragment;
import android.support.v4.view.ViewPager;
import android.view.LayoutInflater;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.view.ViewGroup;
import android.widget.HorizontalScrollView;
import android.widget.TabHost;

import java.util.ArrayList;
import java.util.List;

```

```

/**
 * A placeholder fragment containing a simple view.
 */
public class Trend extends Fragment implements
ViewPager.OnPageChangeListener, TabHost.OnTabChangeListener {

    public Trend() {
    }

    private ViewPager viewPager;
    private TabHost tabHost;
    private MyFragmentPagerAdapter myFragmentPagerAdapter;
    View v;
    int i = 0;

    @Override
    public View onCreateView(LayoutInflater inflater, @Nullable ViewGroup container,
                             @Nullable Bundle savedInstanceState) {
        v = inflater.inflate(R.layout.view_pager, container, false);
        i++;
        this.initViewPager();
        this.initTabhost();
        return v;
    }

    private void initViewPager() {

        List<Fragment> listFragments = new ArrayList<Fragment>();
        listFragments.add(new trending());
        listFragments.add(new linechart());
        this.myFragmentPagerAdapter = new MyFragmentPagerAdapter(getChildFragmentManager(),
listFragments);
        this.viewPager = (ViewPager)v.findViewById(R.id.view_pager);
        this.viewPager.setAdapter(this.myFragmentPagerAdapter);
        this.viewPager.setOnPageChangeListener(this);

    }

    private void initTabhost() {
        tabHost=(TabHost)v.findViewById(R.id.tabHost);
        tabHost.setup();
        String[] tabNames={"TABLE", "LINE CHART"};
        for (int i=0;i<tabNames.length;i++){
            TabHost.TabSpec tabSpec;
            tabSpec=tabHost.newTabSpec(tabNames[i]);
            tabSpec.setIndicator(tabNames[i]);
            tabSpec.setContent(new FakeContent(getActivity()));
            tabHost.addTab(tabSpec);
        }
        tabHost.setOnTabChangedListener(this);
    }

    public class FakeContent implements TabHost.TabContentFactory {

        Context context;
        public FakeContent(Context mcontext){

            context = mcontext;
        }

        @Override
        public View createTabContent(String tag) {
            View fakeView=new View(context);
            fakeView.setMinimumHeight(0);
            fakeView.setMinimumWidth(0);
            return fakeView;
        }

    }

    @Override

```



```

public void onTabChanged(String tabId) {
    int selectedItem=tabHost.getCurrentTab();
    viewPager.setCurrentItem(selectedItem);
    HorizontalScrollView h=(HorizontalScrollView)v.findViewById(R.id.h_scroll);
    View tabView=tabHost.getCurrentTabView();
}

@Override
public void onPageScrolled(int arg0, float arg1, int arg2) {
}

@Override
public void onPageSelected(int selectedItem) {
    tabHost.setCurrentTab(selectedItem);
}

@Override
public void onPageScrollStateChanged(int arg0) {
}

@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setHasOptionsMenu(true);
}

@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    // TODO Add your menu entries here
    super.onCreateOptionsMenu(menu, inflater);
}

@Override
public boolean onOptionsItemSelected(MenuItem item) {
    return super.onOptionsItemSelected(item);
}
}

```

Linechart

```

package com.example.klilian.menudrawer;

import android.content.SharedPreferences;
import android.graphics.Color;
import android.os.Bundle;
import android.preference.PreferenceManager;
import android.support.v4.app.Fragment;
import android.support.v4.widget.SwipeRefreshLayout;
import android.util.Log;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;
import android.widget.Toast;
import com.github.mikephil.charting.charts.LineChart;
import com.github.mikephil.charting.components.Legend;
import com.github.mikephil.charting.components.XAxis;
import com.github.mikephil.charting.components.YAxis;
import com.github.mikephil.charting.data.Entry;
import com.github.mikephil.charting.data.LineData;
import com.github.mikephil.charting.data.LineDataSet;
import com.github.mikephil.charting.formatter.IndexAxisValueFormatter;
import com.github.mikephil.charting.highlight.Highlight;
import com.github.mikephil.charting.listener.OnChartValueSelectedListener;

```

```

import com.loopj.android.http.AsyncHttpClient;
import com.loopj.android.http.AsyncHttpResponseHandler;
import com.loopj.android.http.RequestParams;
import java.util.ArrayList;

public class linechart extends Fragment implements OnChartValueSelectedListener{

    public linechart() {

    }

    ArrayList xVals = new ArrayList();
    private LineChart mChart;
    TextView to, from;
    private int year;
    private int month;
    private int day;
    int cur = 0;
    String start,end,tos,froms;
    SwipeRefreshLayout swipeContainer;
    static final int DATE_DIALOG_ID = 0;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        View v = inflater.inflate(R.layout.linechart, container, false);

        mChart = (LineChart) v.findViewById(R.id.linegraph);
        mChart.setOnChartValueSelectedListener(this);
        mChart.getDescription().setEnabled(true);
        mChart.setScaleEnabled(false);
        mChart.setDragOffsetX(20);
        mChart.setDrawGridBackground(false);
        mChart.setBackgroundColor(Color.WHITE);
        LineData data = new LineData();
        LineData data1 = new LineData();
        LineData data2 = new LineData();
        LineData data3 = new LineData();
        data.setValueTextColor(Color.BLACK);

        data1.setValueTextColor(Color.BLACK);
        data2.setValueTextColor(Color.BLACK);
        data3.setValueTextColor(Color.BLACK);
        Legend l = mChart.getLegend();
        l.setForm(Legend.LegendForm.LINE);
        l.setTextColor(Color.BLACK);

        YAxis leftAxis = mChart.getAxisLeft();
        leftAxis.setTextColor(Color.BLACK);
        leftAxis.setLabelCount(8);
        leftAxis.setAxisMinimum(0f);
        leftAxis.setGranularity(1f);
        leftAxis.setDrawGridLines(true);
        mChart.setScaleYEnabled(false);
        YAxis rightAxis = mChart.getAxisRight();
        rightAxis.setEnabled(false);
        SharedPreferences preferences =
        PreferenceManager.getDefaultSharedPreferences(getContext());
        start = preferences.getString("to", "");
        end = preferences.getString("from", "");
        if (!start.equalsIgnoreCase("") && !end.equalsIgnoreCase("")) {
            tos = start;
            froms = end;
        }
        else
        {
            tos = "";
            froms = "";
        }
        swipeContainer = (SwipeRefreshLayout) v.findViewById(R.id.swiperefresh);
        swipeContainer.setOnRefreshListener(new SwipeRefreshLayout.OnRefreshListener() {
            @Override

```

```

        public void onRefresh() {
            mChart.removeAllViewsInLayout();
            addEntry();
            swipeContainer.setRefreshing(false);
        }
    });
    addEntry();
    return v;
}

public static float[] strtoInt(String[] a) {
    float[] b = new float[a.length];
    Integer c = a.length;
    for (int i = 0; i < c; i++) {
        if (a[i] != null && !a[i].equals("")) {
            b[i] = Float.parseFloat(a[i]);
        } else {
            b[i] = 0;
        }
    }
    return b;
}

private void addEntry() {
    try {
        AsyncHttpClient client = new AsyncHttpClient();
        RequestParams params = new RequestParams(); //take text in edittext as string

        params.put("to", tos);
        params.put("from", froms);
        client.post("http://scada.co.ke/scada/plc2.php", params, new
AsyncHttpResponseHandler() {
            @Override
            public void onSuccess(String content) {

                ArrayList yVals1 = new ArrayList();
                ArrayList yVals2 = new ArrayList();
                ArrayList yVals3 = new ArrayList();
                ArrayList yVals4 = new ArrayList();
                String[] row = content.toString().split("#");
                String[] column = content.toString().split(",");
                int rl = row.length;
                int cl = column.length;
                for (int i = 0; i < rl; i++) {
                    String[] jays = row[i].toString().split(",");
                    int c = jays.length;
                    int z = c - 1;
                    String[] jay = new String[z];
                    int p = jay.length;
                    System.arraycopy(jays, 0, jay, 0, 0);
                    System.arraycopy(jays, 1, jay, 0, p - 0);
                    float intdata[] = strtoInt(jay);
                    yVals1.add(new Entry(i, intdata[0]));
                    yVals2.add(new Entry(i, intdata[1]));
                    yVals3.add(new Entry(i, intdata[intdata.length - 2]));
                    yVals4.add(new Entry(i, intdata[intdata.length - 1]));
                    xVals.add(jays[0]);
                }
                XAxis xAxis = mChart.getXAxis();
                xAxis.setPosition(XAxis.XAxisPosition.BOTTOM);
                xAxis.setDrawGridLines(true);
                xAxis.setGranularity(.01f); // only intervals of 1 day
                xAxis.setGranularityEnabled(true);
                xAxis.setTextColor(Color.BLACK);
                xAxis.setTextSize(2f);
                xAxis.setCenterAxisLabels(true);
                xAxis.setValueFormatter(new IndexAxisValueFormatter(xVals));
                LineDataSet set1, set2, set3, set4;

```

```

        set1 = new LineDataSet(yVals1, "TANK 1");
        set1.setColor(Color.rgb(128, 255, 0));
        set1.setLineWidth(2f);
        set1.setCircleRadius(5f);
        set1.setValueTextSize(7f);

        set2 = new LineDataSet(yVals2, "TANK 2");
        set2.setColor(Color.rgb(0, 0, 255));
        set2.setLineWidth(2f);
        set2.setCircleRadius(5f);
        set2.setValueTextSize(7f);

        set3 = new LineDataSet(yVals3, "TANK 3");
        set3.setColor(Color.rgb(204, 0, 0));
        set3.setLineWidth(2f);
        set3.setCircleRadius(5f);
        set3.setValueTextSize(7f);

        set4 = new LineDataSet(yVals4, "TANK 4");
        set4.setLineWidth(2f);
        set4.setColor(Color.rgb(0, 0, 0));
        set4.setCircleRadius(5f);
        set4.setValueTextSize(7f);

        LineData data = new LineData(set1, set2, set3, set4);

        mChart.setData(data);
        data.notifyDataChanged();
        mChart.notifyDataSetChanged();
        mChart.setVisibleXRangeMaximum(12);
        mChart.setDragEnabled(true);
        mChart.moveViewToX(data.getEntryCount());
        mChart.invalidate();
    }

    @Override
    public void onFailure(Throwable error, String content) {
        super.onFailure(error, content);
        Toast.makeText(getActivity(), "Internet connection is required to load
chart", Toast.LENGTH_SHORT).show();
    }
});
} catch (Exception e) {
    e.printStackTrace();
}
}

@Override
public void onValueSelected(Entry e, Highlight h) {
    Log.i("Entry selected", e.toString());
    mChart.centerViewToAnimated(e.getX(), e.getY(),
mChart.getData().getDataSetByIndex(h.getDataSetIndex())
        .getAxisDependency(), 500);
}

@Override
public void onNothingSelected() {
}
}

```

trending

```

package com.example.klilian.menudrawer;
import android.content.SharedPreferences;
import android.preference.PreferenceManager;
import android.support.v4.app.Fragment;
import android.graphics.Color;
import android.os.Bundle;
import android.util.Log;
import android.view.Gravity;
import android.view.LayoutInflater;

```

```

import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.ScrollView;
import android.widget.TableLayout;
import android.widget.TableRow;
import android.widget.TextView;
import android.widget.Toast;

import com.loopj.android.http.AsyncHttpClient;
import com.loopj.android.http.AsyncHttpResponseHandler;
import com.loopj.android.http.RequestParams;

public class trending extends Fragment{

    public trending() {
    }

    Button btn;
    String[] column;
    String[] row;
    String start,end,to,from;
    ScrollView sv;
    TableLayout tableLayout,tableLayout2;

    @Override
    public View onCreateView(LayoutInflater inflater, ViewGroup container,
                             Bundle savedInstanceState) {
        View v= inflater.inflate(R.layout.table, container, false);
        btn = (Button)v.findViewById(R.id.trend);
        tableLayout= (TableLayout)v.findViewById(R.id.tables);
        sv = (ScrollView)v.findViewById(R.id.listt);
        sv.post(new Runnable() {
            @Override
            public void run() {
                sv.fullScroll(View.FOCUS_DOWN);
            }
        });
        SharedPreferences preferences =
PreferenceManager.getDefaultSharedPreferences(getContext());
        start = preferences.getString("to", "");
        end = preferences.getString("from", "");
        if (!start.equalsIgnoreCase("") && !end.equalsIgnoreCase("")) {
            to = start;
            from = end;
        }
        else
        {
            to = "";
            from = "";
        }
        tablecreate();
        btn.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                tableLayout.removeAllViewsInLayout();
                tablecreate();
            }
        });

        return v;
    }

    public void tablecreate()
    {
        try{

            AsyncHttpClient client = new AsyncHttpClient();
            RequestParams params = new RequestParams(); //take text in edittext as string

```

```

        params.put("to", to);
        params.put("from", from);
        client.post("http://scada.co.ke/scada/trial.php", params, new
AsyncHttpResponseHandler()
        {
            @Override
            public void onSuccess(String content) {
                Toast.makeText(getActivity(), "Tank data is populating, kindly wait for 10
seconds", Toast.LENGTH_LONG).show();
                row = content.toString().split("#");
                int rl=row.length; int cl=1;
                tableLayout = createTableLayout(row, column,rl, cl);
                tableLayout.invalidate();
                setHeaderTitle(tableLayout,0,0);
            }
            @Override
            public void onFailure(Throwable error, String content) {
                super.onFailure(error, content);

                Toast.makeText(getActivity(), "Failed, Internet Connection is
required", Toast.LENGTH_LONG).show();
            }
        });
    }
    catch (Exception e) {
        e.printStackTrace();
    }
}

public void setHeaderTitle(TableLayout tableLayout, int rowIndex, int columnIndex){
    TableRow tableRow = (TableRow) tableLayout.getChildAt(rowIndex);
    for(int i=0;i<rowIndex;i++)
    {
        TextView textView = (TextView)tableRow.getChildAt(i);

        textView.setPadding(5, 5, 5, 5);
        if(i==0)
        {
            textView.setText("DATES");
        }
        else if (i==1)
        {
            textView.setText("TANK 1");
        }
        else if (i==2)
        {
            textView.setText("TANK 2");
        }
        else if (i==3)
        {
            textView.setText("TANK 3");
        }

        else if (i==4)
        {
            textView.setText("TANK 4");
        }
    }
}

private TableLayout createTableLayout(String [] rv, String [] cv,int rowCount, int
columnCount) {
    TableLayout.LayoutParams tableLayoutParams = new TableLayout.LayoutParams();
    TableRow.LayoutParams tableRowParams = new TableRow.LayoutParams();
    tableRowParams.setMargins(1, 1, 1, 1);
    tableRowParams.weight = 100;
    for (int i = 0; i < rowCount; i++) {
        TableRow tableRow = new TableRow(getContext());
        tableRow.setBackgroundColor(Color.BLACK);
    }
}

```

```

String[] jay = rv[i].toString().split(",");
for (int j = 0; j < 5; j++) {
    TextView textView = new TextView(getContext());
    textView.setBackgroundColor(Color.rgb(247, 143, 30));
    textView.setGravity(Gravity.CENTER);
    textView.setTextColor(Color.WHITE);

    textView.setPadding(5, 5, 5, 5);
    String s1 = Integer.toString(i);
    String s2 = Integer.toString(j);
    String s3 = s1 + s2;
    int id = Integer.parseInt(s3);
    int divisible=2;

    Log.d("TAG", "-->" + id);
    if(i%divisible==0)
    {
        textView.setTextColor(Color.BLACK);
        textView.setBackgroundColor(Color.rgb(255, 255, 255));
    }
    else
    {
    }

    if(i==0){
        if(j==0)
        {
            textView.setText("DATES");
        }
        else if (j==1)
        {
            textView.setText("TANK 1");
        }
        else if (j==2)
        {
            textView.setText("TANK 2");
        }
        else if (j==3)
        {
            textView.setText("TANK 3");
        }

        else if (j==4)
        {
            textView.setText("TANK 4");
        }

    }else {
        Log.d("TAG", "Set Row Headers");
        textView.setText(jay[j].toString());
    }

    tableRow.addView(textView, tableRowParams);
    tableLayout.addView(tableRow, tableLayoutParams);
}
return tableLayout;
}
}

```

XML LAYOUT

App_bar_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true">

    <android.support.design.widget.AppBarLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:theme="@style/AppTheme.AppBarOverlay">

        <android.support.v7.widget.Toolbar
            android:id="@+id/toolbar"
            android:layout_width="match_parent"
            android:layout_height="?attr/actionBarSize"
            android:background="#f78f1e"
            app:popupTheme="@style/AppTheme.PopupOverlay"/>

    </android.support.design.widget.AppBarLayout>

</android.support.design.widget.CoordinatorLayout>
```

Content_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.constraint.ConstraintLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    app:layout_behavior="@string/appbar_scrolling_view_behavior"
    tools:context="com.example.klilian.menudrawer.MainActivity"
    tools:showIn="@layout/app_bar_main">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Hello World!"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintLeft_toLeftOf="parent"
        app:layout_constraintRight_toRightOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

</android.support.constraint.ConstraintLayout>
```

Datepicker dialog.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical"
    android:layout_marginTop="5dp"
    android:padding="10dp"
    android:layout_gravity="center_horizontal"
    android:gravity="center">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content">
```



```

        android:text="Choose Date Range"
        android:layout_centerHorizontal="true"

        android:padding="15dp"
        android:textColor="@color/colorAccent"
        android:layout_marginBottom="20dp"
        android:textSize="20sp"
        android:textStyle="bold"
    />
    <EditText

        android:id="@+id/date"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:background="#d4d4d4"
        android:hint="Date From..."
        android:padding="15dp"
        android:textColor="#897"
        android:textColorHint="#090"
        android:textSize="20sp"
        android:textStyle="bold"
    />

    <EditText

        android:layout_marginTop="10dp"
        android:id="@+id/dates"
        android:layout_width="200dp"
        android:layout_height="wrap_content"
        android:layout_centerHorizontal="true"
        android:background="#d4d4d4"
        android:hint="Date To..."
        android:padding="15dp"
        android:textColor="#897"
        android:textColorHint="#090"
        android:textSize="20sp"
        android:textStyle="bold" />
    <Button
        android:id="@+id/dialogButtonOK"
        android:layout_width="200px"
        android:layout_height="wrap_content"
        android:text=" Ok "
        android:layout_centerHorizontal="true"
        android:layout_below="@+id/dates"

        android:layout_marginTop="25dp"
        android:background="@drawable/buttn"
    />

</LinearLayout>

```

Fragment2_main.xml

```

<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_marginTop="90dp">

    <Button
        android:layout_width="150dp"
        android:layout_height="50dp"
        android:text="Share it"
        android:textSize="20sp"
        android:id="@+id/shareit"
        android:textColor="#ffffff"
        android:background="#20b2aa"
    />

```

```

        android:layout_marginTop="40dp"
        android:typeface="serif"/>
</LinearLayout>

```

Item nav list.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="horizontal"
    android:id="@+id/listvw"
    android:padding="10dp">
    <ImageView
        android:layout_width="30dp"
        android:layout_height="30dp"
        android:id="@+id/image2"
    />
    <LinearLayout
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_marginLeft="10dp"
        android:gravity="center"
        android:layout_gravity="center">

        <TextView
            android:id="@+id/text3"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:fontFamily="sans-serif"
            android:text="TextView3"
            android:textColor="#000"

            android:textSize="16dp"

        />

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/text4"
            android:text="TextView4"
            android:fontFamily="sans-serif"

            android:textSize="14dp"
            android:textColor="#000" />
    </LinearLayout>
</LinearLayout>

```

Linechart.xml

```

<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.SwipeRefreshLayout

    xmlns:android="http://schemas.android.com/apk/res/android"
    android:id="@+id/swiperefresh"
    android:layout_width="match_parent"
    android:layout_height="match_parent">

    <RelativeLayout

        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:background="#fff"
    >

```

```

<com.github.mikephil.charting.charts.LineChart
    android:id="@+id/linegraph"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent"

    android:layout_marginTop="25dp"
    android:layout_marginBottom="5dp"
    android:layout_marginLeft="5dp"
    android:layout_marginRight="5dp"
/>

</RelativeLayout>
</android.support.v4.widget.SwipeRefreshLayout>

```

Loading_page.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"

    android:orientation="horizontal"
    android:layout_gravity="center"
    android:gravity="center"
    android:background="#008641">

    <TextView

        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:fontFamily="sans-serif-condensed"
        android:gravity="center"
        android:text="SCADA WATER LEVEL MONITOR"
        android:textColor="#f78f1e"
        android:textSize="35dp"
        android:textStyle="bold" />

</RelativeLayout>

```

Login.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:weightSum="1">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SCADA WATER LEVEL MONITOR"
        android:layout_marginTop="60dp"
        android:layout_marginBottom="60dp"
        android:layout_gravity="center_horizontal"
        android:gravity="center"

        android:textColor="@color/colorAccent"
        android:textStyle="bold"
        android:textSize="27dp"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"

```

```

        android:orientation="vertical"
        android:padding="20dp">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Email Address"
            android:layout_gravity="center_horizontal" />
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/mail"
            />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Password"
            android:layout_gravity="center_horizontal" />
        <EditText
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:id="@+id/passenter"
            android:inputType="textPassword"/>

        <EditText
            android:layout_width="match_parent"
            android:layout_height="0dp"
            android:id="@+id/classes"
            />
        <EditText
            android:layout_width="match_parent"
            android:layout_height="0dp"
            android:id="@+id/dept"

        />

        <Button
            android:layout_width="match_parent"
            android:layout_height="58dp"
            android:text="LOGIN"
            android:id="@+id/login"
            android:layout_margin="20dp"
            android:textColor="@color/colorAccent"
            android:background="@color/colorPrimary" />
        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/signuplink"
            android:textColor="@color/colorPrimary"
            android:text="No account yet? Create one"
            android:layout_gravity="center_horizontal" />
    </LinearLayout>
</LinearLayout>

```

Now.xml

```

<?xml version="1.0" encoding="utf-8"?>
<FrameLayout
    xmlns:android="http://schemas.android.com/apk/res/android"

    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_marginTop="50dp"
>

    <android.support.v4.widget.SwipeRefreshLayout
        android:id="@+id/swiperefresh"
        android:layout_width="match_parent"
        android:layout_height="match_parent">

```

```

<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="@drawable/plc"
    android:orientation="horizontal"
    android:padding="5dp"
    android:gravity="bottom"
    android:layout_gravity="center_horizontal"

```

```
>
```

```

<TextView
    android:id="@+id/tank1"
    style="@style/Widget.AppCompat.Button"
    android:layout_width="wrap_content"
    android:layout_height="70dp"
    android:layout_marginBottom="120dp"
    android:fontFamily="sans-serif"
    android:padding="5dp"
    android:text="70000"
    android:textColor="@color/colorAccent"
    android:textSize="20dp"
    android:textStyle="bold"
    android:background="@drawable/buttn"
    android:layout_marginLeft="5dp"
/>

```

```
<TextView
```

```

    style="@style/Widget.AppCompat.Button"
    android:id="@+id/tank2"
    android:layout_width="wrap_content"
    android:layout_height="70dp"

    android:layout_toRightOf="@+id/tank1"
    android:fontFamily="sans-serif"
    android:layout_marginBottom="140dp"

    android:padding="5dp"
    android:text="70000"
    android:textColor="#f78f1e"    android:textSize="20dp"
    android:textStyle="bold"
    android:layout_marginLeft="5dp"
    android:background="@drawable/buttn" />

```

```
<TextView
```

```

    style="@style/Widget.AppCompat.Button"
    android:id="@+id/tank3"
    android:layout_width="wrap_content"
    android:layout_height="70dp"

    android:layout_toRightOf="@+id/tank2"
    android:fontFamily="sans-serif"
    android:layout_marginBottom="140dp"
    android:textSize="20dp"
    android:padding="5dp"
    android:text="70000"
    android:textColor="#f78f1e"
    android:textStyle="bold"
    android:layout_marginLeft="5px"
    android:background="@drawable/buttn" />

```

```
<TextView
```

```

    style="@style/Widget.AppCompat.Button"
    android:id="@+id/tank4"
    android:layout_width="wrap_content"

```

```

        android:layout_height="70dp"
        android:layout_toRightOf="@+id/tank3"
        android:fontFamily="sans-serif"
        android:padding="5dp"
        android:text="70000"
        android:textColor="#f78f1e"    android:textSize="20dp"
        android:textStyle="bold"
        android:layout_marginLeft="5px"
        android:layout_marginBottom="140dp"
        android:background="@drawable/butttn" />

```

```

<RelativeLayout
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginBottom="3dp"
    android:layout_above="@id/tank2"
    android:gravity="center"

```

>

```

<TextView

```

```

    android:id="@+id/tank11"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="sans-serif"
    android:textSize="20dp"
    android:padding="5dp"
    android:text="Tank 1"
    android:textColor="#f78f1e"
    android:textStyle="bold"

```

```

/>

```

```

<TextView

```

```

    android:id="@+id/tank21"
    android:layout_toRightOf="@id/tank11"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="sans-serif"
    android:textSize="20dp"
    android:padding="5dp"
    android:text="Tank 2"
    android:textColor="#f78f1e"
    android:textStyle="bold"
    android:layout_marginLeft="20dp" />

```

```

<TextView

```

```

    android:id="@+id/tank31"
    android:layout_toRightOf="@id/tank21"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="sans-serif"
    android:textSize="20dp"
    android:padding="5dp"
    android:text="Tank 3"
    android:textColor="#f78f1e"
    android:textStyle="bold"

```

```

    android:layout_marginLeft="20dp" />

```

```

<TextView

```

```

    android:id="@+id/tank41"
    android:layout_toRightOf="@id/tank31"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:fontFamily="sans-serif"
    android:textSize="20dp"
    android:padding="5dp"

```

```

        android:text="Tank 4"
        android:textColor="#f78f1e"
        android:textStyle="bold"

        android:layout_marginLeft="20dp"/>
</RelativeLayout>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="70dp"
    android:layout_above="@+id/tank2"
    android:layout_marginBottom="93dp"

    android:fontFamily="sans-serif"
    android:padding="5dp"
    android:text="REAL TIME WATER LEVEL"

    android:gravity="center_horizontal"
    android:layout_centerHorizontal="true"
    android:textColor="@color/colorPrimary"
    android:textSize="24dp"
    android:textStyle="bold" />

</RelativeLayout>

</android.support.v4.widget.SwipeRefreshLayout>
</FrameLayout>

```

Signup.xml

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:layout_gravity="center"
    android:gravity="center"
    android:orientation="vertical">

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="SCADA WATER LEVEL MONITOR"
        android:layout_marginTop="60dp"
        android:layout_marginBottom="40dp"
        android:layout_gravity="center_horizontal"
        android:gravity="center"
        android:textColor="@color/colorAccent"
        android:textStyle="bold"
        android:textSize="27dp"/>

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical"
        android:padding="20dp">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:id="@+id/textv1"
            android:text="Enter Email Address"

```

```

        android:layout_gravity="center_horizontal"/>
<EditText
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/email"

    android:layout_gravity="center_horizontal"
/>

<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/textv2"
    android:text="Enter Phone Number"

    android:layout_gravity="center_horizontal"/>

<EditText
    android:id="@+id/phone"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

    android:layout_gravity="center_horizontal"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:id="@+id/dept"
    android:text="Enter Password"

    android:layout_gravity="center_horizontal"
/>

<EditText
    android:id="@+id/passwords"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:inputType="textPassword"

    android:layout_gravity="center_horizontal"/>

<Button
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:text="Sign Up"
    android:id="@+id/btn"
    android:layout_gravity="center_horizontal"

    android:layout_margin="20dp"
    android:textColor="@color/colorAccent"
    android:background="@color/colorPrimary"/>
<TextView
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:text="You have an account? Log in"
    android:id="@+id/signup"
    android:layout_gravity="center"
    android:textColor="@color/colorPrimary"/>
</LinearLayout>
</LinearLayout>

```


Support.xml

```
<?xml version="1.0" encoding="utf-8"?>
<TextView xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:textColor="@color/colorPrimaryDark"
    >

</TextView>
```

Table.xml

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent" android:layout_height="wrap_content"
    android:orientation="vertical"
    android:padding="1dp"
    android:layout_marginTop="25dp"
    android:id="@+id/changes"
    >

    <Button
        android:id="@+id/trend"
        android:layout_width="wrap_content"
        android:layout_height="35dp"
        android:gravity="center"
        android:text="Refresh"
        android:background="@drawable/buttn"
        android:layout_marginTop="30dp"
        android:layout_centerHorizontal="true"
        />

    <ScrollView
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:id="@+id/listt"
        android:layout_marginTop="68dp">

        <TableLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content"

            android:id="@+id/tables">
        </TableLayout>
    </ScrollView>
</RelativeLayout>
<!--</android.support.v4.widget.SwipeRefreshLayout>-->
```

Trend.xml

```
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity">

    <TabHost
        android:id="@+id/tabHost"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_alignParentTop="true"
        android:layout_centerHorizontal="true">

        <LinearLayout
```

```

        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">

        <TabWidget
            android:id="@android:id/tabs"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"></TabWidget>

        <FrameLayout
            android:id="@android:id/tabcontent"
            android:layout_width="match_parent"
            android:layout_height="match_parent">

            <LinearLayout
                android:id="@+id/tab1"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:background="#ffc916"
                android:orientation="vertical">

                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:text="This is tab 1" />

            </LinearLayout>

            <LinearLayout
                android:id="@+id/tab2"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:background="#da8200"
                android:orientation="vertical">

                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:text="This is tab 2" />

            </LinearLayout>

            <LinearLayout
                android:id="@+id/tab3"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:background="#5b89ff"
                android:orientation="vertical">

                <TextView
                    android:layout_width="match_parent"
                    android:layout_height="match_parent"
                    android:text="This is tab 3" />

            </LinearLayout>

        </FrameLayout>
    </LinearLayout>
</TabHost>

</LinearLayout>

Trisl.xml

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="fill_parent"
    android:layout_height="fill_parent" >

    <TextView
        android:id="@+id/text"
        android:layout_width="fill_parent"
        android:layout_height="wrap_content"
        android:textColor="#FFF"

```

```

        android:text="Tank 1 data being populated"
        android:layout_toRightOf="@+id/image"/>

<Button
    android:id="@+id/dialogButtonOK"
    android:layout_width="100px"
    android:layout_height="wrap_content"
    android:text=" Ok "
    android:layout_marginTop="5dp"
    android:layout_marginRight="5dp"
    android:layout_below="@+id/image"
/>

</RelativeLayout>

```

ViewPager.xml

```

<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    android:id="@+id/maintab"
    android:layout_marginTop="28px"
    >
    <TabHost
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:id="@+id/tabHost"
        >
        <LinearLayout
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:orientation="vertical"
            android:fitsSystemWindows="true"
            android:layout_marginTop="35dp" >
            <!--android:layout_marginTop="60dp"-->

            <HorizontalScrollView
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:fillViewport="true"
                android:scrollbars="none"
                android:id="@+id/h_scroll"

                >

            <TabWidget
                android:id="@android:id/tabs"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:background="#f78f1e"></TabWidget>
        </HorizontalScrollView>

        <FrameLayout
            android:id="@android:id/tabcontent"
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            >

            <android.support.v4.view.ViewPager
                android:id="@+id/view_pager"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:layout_marginTop="-20dp">

            </android.support.v4.view.ViewPager>

```

```

        </FrameLayout>
    </LinearLayout>
</TabHost>

</RelativeLayout>

```

DRAWABLES

Activated.xml

```

<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
<solid
    android:color="#dee7ed">

</solid>
</shape>

```

Background.xml

```

<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
<item android:state_activated="true" android:drawable="@drawable/activated"></item>
    <item android:state_pressed="true" android:drawable="@drawable/activated"></item>
    <item android:state_focused="true" android:drawable="@drawable/activated"></item>
    <item android:drawable="@drawable/non_activated"></item>
</selector>

```

Button.xml

```

<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:state_pressed="true">
        <shape android:shape="rectangle">
            <corners android:radius="3dip"/>
            <stroke android:width="1dip"
                android:color="#008641"/>
            <gradient android:angle="-90" android:startColor="@color/colorT"
                android:endColor="@color/colorT"/>

        </shape>
    </item>
    <item android:state_focused="true">
        <shape android:shape="rectangle">
            <corners android:radius="3dip"/>
            <stroke android:width="1dip" android:color="#008641"/>
            <solid android:color="@color/colorT"/>

        </shape>
    </item>

    <item>
        <shape android:shape="rectangle">
            <corners android:radius="3dip"/>
            <stroke android:width="1dip" android:color="#008641"/>
            <solid android:color="@color/colorT"/>

        </shape>
    </item>

```

```

    </item>
</selector>

```

Non_activated.xml

```

<?xml version="1.0" encoding="utf-8"?>
<shape xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent">
    <solid android:color="#fff">

</solid>
</shape>

```

MENU XML

Mains.xml

```

<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto">
    <item
        android:id="@+id/action_settings"
        android:orderInCategory="100"
        android:title="Sort By Date"
        app:showAsAction="never" />

    <item
        android:id="@+id/share"
        android:icon="@android:drawable/ic_menu_share"
        android:title="Share"
        app:showAsAction="always" />

</menu>

```

VALUES

Colors.xml

```

<?xml version="1.0" encoding="utf-8"?>
<resources>
    <color name="colorPrimary">#008641</color>
    <color name="colorPrimaryDark">#008641</color>
    <color name="colorAccent">#f78f1e</color>
    <color name="colorT">@android:color/transparent</color>
</resources>

```

Drawables.xml

```

<resources xmlns:android="http://schemas.android.com/apk/res/android">
    <item name="ic_menu_camera" type="drawable">@android:drawable/ic_menu_camera</item>
    <item name="ic_menu_gallery" type="drawable">@android:drawable/ic_menu_gallery</item>
    <item name="ic_menu_slideshow" type="drawable">@android:drawable/ic_menu_slideshow</item>
    <item name="ic_menu_manage" type="drawable">@android:drawable/ic_menu_manage</item>
    <item name="ic_menu_share" type="drawable">@android:drawable/ic_menu_share</item>
    <item name="ic_menu_send" type="drawable">@android:drawable/ic_menu_send</item>
</resources>

```

Strings.xml

```

<resources>
    <string name="app_name">menudrawer</string>

    <string name="navigation_drawer_open">Open navigation drawer</string>

```

```

<string name="navigation_drawer_close">Close navigation drawer</string>

<string name="drawer_opened">Drawer opened</string>
<string name="drawer_closed">Drawer closed</string>
<string name="action_settings">Settings</string>
<string name="title_activity_main4">Main4Activity</string>
<string name="title_home">Home</string>
<string name="title_dashboard">Dashboard</string>
<string name="title_notifications">Notifications</string>
<string-array name="array_country" >
    <item>Tank1</item>
    <item>Tank2</item>
    <item>Tank3</item>
    <item>Tank4</item>
</string-array>

</resources>

```

Styles.xml

```

<resources>

    <!-- Base application theme. -->
    <style name="AppTheme" parent="Theme.AppCompat.Light.DarkActionBar">
        <!-- Customize your theme here. -->
        <item name="actionBarItemBackground">@color/colorPrimary</item>
        <item name="colorPrimary">@color/colorPrimary</item>
        <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
        <item name="colorAccent">@color/colorAccent</item>
    </style>

    <style name="AppTheme.NoActionBar">
        <item name="windowActionBar">false</item>
        <item name="windowNoTitle">true</item>
    </style>

    <style name="AppTheme.AppBarOverlay" parent="ThemeOverlay.AppCompat.Dark.ActionBar" />

    <style name="AppTheme.PopupOverlay" parent="ThemeOverlay.AppCompat.Light" />

</resources>

```

ANDROID MANIFEST

```

<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.example.klilian.menudrawer">

    <uses-permission android:name="android.permission.CALL_PHONE" />
    <uses-permission android:name="android.permission.INTERNET"/>
    <application
        android:allowBackup="true"
        android:icon="@drawable/graph"
        android:label="Water Level Monitor"
        android:supportRtl="true"
        android:theme="@style/AppTheme"
        android:screenOrientation="landscape">

        <activity
            android:name=".Loading_page"
            android:theme="@style/AppTheme.NoActionBar"
            >
            <intent-filter>
                <action android:name="android.intent.action.MAIN" />

                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
        </activity>
    </application>
</manifest>

```

```
        </activity>
        <activity android:name=".MainActivity"

                android:theme="@style/AppTheme.NoActionBar"
/>

        <activity android:name=".Login"

                android:theme="@style/AppTheme.NoActionBar"/>

        <activity android:name=".SignUp"

                android:theme="@style/AppTheme.NoActionBar"/>

    </application>
</manifest>
```