Implementation of Android Notification and Dialogs

```java
second.java
package com.example.myapps;

import android.app.Activity;
import android.app.NotificationManager;
import android.app.PendingIntent;
import android.content.Intent;
import android.graphics.drawable.BitmapDrawable;
import android.os.Bundle;
import android.support.v4.app.NotificationCompat;
import android.view.ContextMenu;
import android.view.ContextMenu.ContextMenuInfo;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.ListView;
import android.widget.PopupMenu;
import android.widget.Toast;

public class second extends Activity {
        protected String[] serve = new String[3];

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.list);
        serve[0] = "Bonafide Service";
        serve[1] = "Bill Issues";
        serve[2] = "important Notifications";
        ListView lv = (ListView)findViewById(R.id.listView1);
        ArrayAdapter<String> av = new ArrayAdapter<String>(this, android.R.layout.simple_list_item_1, serve);
        lv.setAdapter(av);
        registerForContextMenu(lv);
        final Button button1 = (Button) findViewById(R.id.button1);
        button1.setOnClickListener(new OnClickListener() {

         @Override
         public void onClick(View v) {
          //Creating the instance of PopupMenu
          PopupMenu popup = new PopupMenu(second.this, button1);
          //Inflating the Popup using xml file
          popup.getMenuInflater().inflate(R.menu.pop, popup.getMenu());
```

```java
        //registering popup with OnMenuItemClickListener
        popup.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
         public boolean onMenuItemClick(MenuItem item) {
          Toast.makeText(second.this,"You Clicked : " + item.getTitle(),Toast.LENGTH_SHORT).show();
          return true;
         }
        });

        popup.show();//showing popup menu
       }
      });//closing the setOnClickListener metho
     createNotify();
   }
   public void createNotify()
   {
        NotificationManager nm = (NotificationManager)getSystemService(NOTIFICATION_SERVICE);
        Intent intent = new Intent(getApplicationContext(),message.class);
        intent.putExtra("message", "Exam timetable released on Sept 7 12 PM");
        intent.putExtra("from", "Message from COE office room");
        PendingIntent pi = PendingIntent.getActivity(getApplicationContext(), 0, intent,
PendingIntent.FLAG_UPDATE_CURRENT);
        NotificationCompat.Builder nb =new NotificationCompat.Builder(getApplicationContext())
        .setContentIntent(pi)
        .setAutoCancel(true)
        .setContentTitle("Important Notification -  TCE")
        .setContentText("Exam schedules Realeased in COE office")
        .setContentInfo("1")
        .setNumber(1)
        .setTicker("Exam Schedules Realeased")
        .setSmallIcon(R.drawable.about);
        nm.notify(0, nb.build());

   }
   public boolean onContextItemSelected(MenuItem item){
      if(item.getTitle()=="Apply Now"){
         Toast.makeText(getApplicationContext(),"Applying for bonafide",Toast.LENGTH_LONG).show();
      }
      else if(item.getTitle()=="More Details"){
         Toast.makeText(getApplicationContext(),"Getting more info for
bonofide",Toast.LENGTH_LONG).show();
      }else{
         return false;
      }
    return true;
 }

    public void onCreateContextMenu(ContextMenu menu, View v, ContextMenuInfo menuInfo)
```

```java
    {
        super.onCreateContextMenu(menu, v, menuInfo);
        menu.setHeaderTitle("Available options");
        menu.add(0, v.getId(), 0, "Apply Now");//groupId, itemId, order, title
        menu.add(0, v.getId(), 0, "More Details");
    }
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.logout, menu);
        return true;
    }
    public boolean onOptionsItemSelected(MenuItem item)
    {
     switch(item.getItemId())
     {
        case R.id.logout:
            Toast.makeText(getApplicationContext(), "Logout option button
clicked",Toast.LENGTH_LONG).show();
            Intent intent = new Intent(getApplicationContext(),MainActivity.class);
            startActivity(intent);
            return true;

    } //end switch
          return false;
}

}
```

MainActivity.java

```java
package com.example.myapps;

import android.app.Activity;
import android.app.AlertDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuItem;
import android.view.View;
import android.view.View.OnClickListener;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;

public class MainActivity extends Activity {

    @Override
```

```java
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    Button btn = (Button)findViewById(R.id.button);
    final EditText edit1 = (EditText)findViewById(R.id.editText1);
    final EditText edit2 = (EditText)findViewById(R.id.editText2);


    btn.setOnClickListener(new OnClickListener() {

                @Override
                public void onClick(View arg0) {
                        // TODO Auto-generated method stub
                        String username = edit1.getText().toString();
                        String password = edit2.getText().toString();
                        if(username.equals("shiva") && password.equals("papa"))
                        {
                        Toast.makeText(getApplicationContext(), "Login Success",
Toast.LENGTH_LONG).show();
                        Intent intent = new Intent(getApplicationContext(),second.class);
                        startActivity(intent);
                        }
                        else
                        {
                                new AlertDialog.Builder(MainActivity.this)
                           .setTitle("Password Error")
                           .setMessage("Retry Entering correct password!")
                           .setPositiveButton(android.R.string.yes, new
DialogInterface.OnClickListener() {
                                public void onClick(DialogInterface dialog, int which) {
                                  // continue with delete
                                }
                           })
                           .setNegativeButton(android.R.string.no, new
DialogInterface.OnClickListener() {
                                public void onClick(DialogInterface dialog, int which) {
                                  // do nothing
                                }
                           })
                           .setIcon(android.R.drawable.ic_dialog_alert)
                           .show();
                        }

                }
                });

}
```

```java
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        // Inflate the menu; this adds items to the action bar if it is present.
        getMenuInflater().inflate(R.menu.main, menu);
        return true;
    }

    @Override
    public boolean onOptionsItemSelected(MenuItem item)
    {
     switch(item.getItemId())
     {
        case R.id.login:
           Toast.makeText(getApplicationContext(), "Login option button
clicked",Toast.LENGTH_LONG).show();
           Intent intent = new Intent(getApplicationContext(),about.class);
           startActivity(intent);
           return true;
        case R.id.about:
           Toast.makeText(getApplicationContext(), "about option button clicked",
Toast.LENGTH_LONG).show();

           return true;


        default:
            Toast.makeText(getApplicationContext(), "paste clicked", Toast.LENGTH_LONG).show();
           return super.onOptionsItemSelected(item);

    } //end switch
}

}
```

message.java
```java
package com.example.myapps;

import android.app.Activity;
import android.app.NotificationManager;
import android.content.Intent;
import android.os.Bundle;
import android.widget.TextView;

public class message extends Activity {

        @Override
```

```java
        protected void onCreate(Bundle savedInstanceState) {
                // TODO Auto-generated method stub
                super.onCreate(savedInstanceState);
                setContentView(R.layout.message);
                NotificationManager nm =
(NotificationManager)getSystemService(NOTIFICATION_SERVICE);
                nm.cancel(0);
                Intent i = getIntent();
                String text = i.getStringExtra("message");
                String from = i.getStringExtra("from");
                TextView texter = (TextView)findViewById(R.id.textView1);
                TextView fromer = (TextView)findViewById(R.id.textView2);
                fromer.setText(from);
                texter.setText(text);


        }
}
```

Activity_main.xml
```xml
<RelativeLayout 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:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android:background="#EED2ED"
    tools:context=".MainActivity" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="30dp"
        android:layout_marginTop="55dp"
        android:textSize="18dp"
        android:singleLine="true"
        android:text="Username" />

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_below="@+id/textView1"
```

```
        android:layout_marginTop="16dp"
        android:ems="10"
        android:hint="Your Username here" >

        <requestFocus />
    </EditText>

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText2"
        android:layout_alignParentBottom="true"
        android:layout_alignRight="@+id/editText2"
        android:layout_marginBottom="81dp"
        android:text="Log In" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_above="@+id/editText2"
        android:layout_alignLeft="@+id/editText1"
        android:layout_marginBottom="23dp"
        android:text="Password"
        android:textSize="18dp" />

    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView2"
        android:layout_centerVertical="true"
        android:ems="10"
        android:hint="Your Password here"
        android:inputType="textPassword" />

</RelativeLayout>
```

message.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="match_parent" >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
```

```
        android:textSize="20dp"
        android:text="TextView" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:textStyle="bold"
        android:layout_below="@+id/textView1"
        android:layout_marginTop="35dp"
        android:text="TextView" />

</RelativeLayout>
```

second.xml:
```
<?xml version="1.0" encoding="utf-8"?>
<ScrollView
    xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:background="#7FFFD4"
    android:orientation="vertical">
<RelativeLayout
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    >

    <TextView
        android:id="@+id/textView1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignParentLeft="true"
        android:layout_alignParentTop="true"
        android:layout_marginLeft="22dp"
        android:textStyle="bold"
        android:layout_marginTop="17dp"
        android:text="Welcome User,"
        android:textAppearance="?android:attr/textAppearanceMedium" />

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/textView1"
        android:layout_below="@+id/textView1"
        android:textStyle="bold"
        android:layout_marginTop="25dp"
```

```xml
        android:text="Name :" />

    <EditText
        android:id="@+id/editText1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/textView2"
        android:layout_alignBottom="@+id/textView2"
        android:layout_marginLeft="26dp"
        android:layout_toRightOf="@+id/textView2"
        android:ems="10" >

        <requestFocus />
    </EditText>

    <DatePicker
        android:id="@+id/datePicker1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText1"
        android:layout_below="@+id/editText1"
        android:layout_marginTop="23dp" />

    <TextView
        android:id="@+id/textView3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/datePicker1"
        android:layout_alignBottom="@+id/datePicker1"
        android:layout_toLeftOf="@+id/editText1"
        android:textStyle="bold"
        android:text="Dob :" />

    <TextView
        android:id="@+id/textView4"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_below="@+id/textView3"
        android:layout_marginTop="25dp"
        android:textStyle="bold"
        android:layout_toLeftOf="@+id/editText1"
        android:text="Father :" />

    <EditText
        android:id="@+id/editText2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/textView4"
```

```xml
        android:layout_alignBottom="@+id/textView4"
        android:layout_alignLeft="@+id/datePicker1"
        android:ems="10" />

    <TextView
        android:id="@+id/textView5"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignRight="@+id/textView4"
        android:layout_below="@+id/editText2"
        android:layout_marginTop="30dp"
        android:textStyle="bold"
        android:text="Reason:" />

    <EditText
        android:id="@+id/editText3"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/textView5"
        android:layout_alignBottom="@+id/textView5"
        android:layout_alignLeft="@+id/editText2"
        android:ems="10" />

    <RadioButton
        android:id="@+id/radioButton1"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignLeft="@+id/editText3"
        android:layout_below="@+id/editText3"
        android:layout_marginTop="30dp"
        android:text="male" />

    <RadioButton
        android:id="@+id/radioButton2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBaseline="@+id/radioButton1"
        android:layout_alignBottom="@+id/radioButton1"
        android:layout_toRightOf="@+id/datePicker1"
        android:text="female" />

    <TextView
        android:id="@+id/textView6"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_alignBottom="@+id/radioButton1"
        android:layout_alignRight="@+id/textView5"
        android:textStyle="bold"
```

```
      android:text="Gender:" />

    <CheckBox
      android:id="@+id/checkBox1"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_alignLeft="@+id/textView3"
      android:layout_below="@+id/radioButton1"
      android:layout_marginTop="51dp"
      android:text="i assure that Above given details are true to my knowledge and can be verified by office
at any point of time in future." />

    <Button
      android:id="@+id/button1"
      android:layout_width="wrap_content"
      android:layout_height="wrap_content"
      android:layout_below="@id/checkBox1"
      android:layout_alignLeft="@+id/textView2"
      android:layout_alignParentBottom="true"
      android:layout_alignRight="@+id/editText3"
      android:text="Apply for Bonafide" />

</RelativeLayout></ScrollView>
```

AndroidManifest.xml:
```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
  package="com.example.myapps"
  android:versionCode="1"
  android:versionName="1.0" >

  <uses-sdk
    android:minSdkVersion="11"
    android:targetSdkVersion="17" />

  <application
    android:allowBackup="true"
    android:icon="@drawable/icon"
    android:label="@string/app_name"
    android:theme="@style/AppTheme" >
    <activity
      android:name="com.example.myapps.MainActivity"
      android:label="Login" >
      <intent-filter>
        <action android:name="android.intent.action.MAIN" />

        <category android:name="android.intent.category.LAUNCHER" />
      </intent-filter>
```

```
       </activity>
    <activity
         android:name="com.example.myapps.second"
         android:label="Bonafide Apply" >

    </activity>
    <activity
         android:name=".about"
         android:label="About" >

    </activity>
     <activity
         android:name=".message"
         android:label="Notification Messages" >

    </activity>
  </application>

</manifest>
```

Output :