



BATCH AND ROLL NO: P8 42405

EXPERIMENT NO.5

TITLE: Design a mobile application to create different dialog boxes and menu Popup, option context.

DATE OF PERFORMANCE

DATE OF CHECKING

Title: Design a mobile application to create different dialog boxes and menu Popup, option context.

Requirements:

1. Android Studio

Theory:

In android, the Menu is an important part of the UI component which is used to provide some common functionality around the application. With the help of the menu, users can experience smooth and consistent experiences throughout the application.

In Android, we have three types of Menus available to define a set of options and actions in our android applications.

The Menus in android applications are the following:

- **Android Options Menu:** Android Options Menu is a primary collection of menu items in an android application and is useful for actions that have a global impact on the search application.
- **Android Context Menu:** Android Context Menu is a floating menu that only appears when the user clicks for a long time on an element and is useful for elements that affect the selected content or context frame.
- **Android Popup Menu:** Android Popup Menu displays a list of items in a vertical list which presents the view that invoked the menu and is useful to provide an overflow of actions related to specific content.

Steps for Option Menu

1. Create a New project in Android Studio
2. Working with the XML Files, go to the **activity_main.xml** file, which represents the UI of the project. Make the code for the **activity_main.xml** file according to your requirements.
3. Create Menu Directory and Menu File-First we will create a menu director which will contain the menu file. Go to app > res> right-click > New > Android Resource Directory and give the Directory name and Resource type as menu. WE will create a popup menu file inside that menu resource directory. Go to app > res > menu>right-click> New> Menu Resource File and create a menu resource file and name it popup-Menu. In the popup_mennu file, we will add menu item.



Code:

Activity_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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"
    tools:context=".MainActivity">

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:linksClickable="true"
        android:longClickable="true"
        android:text="Long Press here"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent"
        app:layout_constraintVertical_bias="0.137" />

    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="showDialogbox"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.479"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/textView"
        app:layout_constraintVertical_bias="0.077" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginBottom="40dp"
        android:onClick="Showpopup"
        android:text="Popupmenu"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.514"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/button"
        app:layout_constraintVertical_bias="0.113" />

</androidx.constraintlayout.widget.ConstraintLayout>
```

Dialogbox.xml

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.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">

    <EditText
        android:id="@+id/editTextTextPersonName"
        android:layout_width="264dp"
        android:layout_height="52dp"
        android:layout_marginTop="128dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Name"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.626"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />

    <EditText
        android:id="@+id/editTextTextPersonName2"
        android:layout_width="264dp"
        android:layout_height="53dp"
        android:layout_marginBottom="312dp"
        android:ems="10"
        android:inputType="textPersonName"
        android:hint="Password"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintHorizontal_bias="0.626"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toBottomOf="@+id/editTextTextPersonName"
        app:layout_constraintVertical_bias="0.312" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.assignment_no5;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;

import android.os.Bundle;
import android.view.ContextMenu;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.Button;
import android.widget.PopupMenu;
import android.widget.TextView;
import android.widget.Toast;
```

```
public class MainActivity extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        Button reg= findViewById(R.id.button);
        TextView t=findViewById(R.id.textView);
        registerForContextMenu(t);
        reg.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                example_dialog diag= new example_dialog();
                diag.show(getSupportFragmentManager(),"example_dialog");
            }
        });
    }
    @Override
    public void onCreateContextMenu(ContextMenu menu,View v,ContextMenu.ContextMenuInfo
    menuInfo)
    {
        super.onCreateContextMenu(menu,v,menuInfo);
        MenuInflater inflater=getMenuInflater();
        inflater.inflate(R.menu.context_menu,menu);
    }
    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item)
    {
        switch (item.getItemId())
        {
            case R.id.it1:
                Toast.makeText(this,"Item1 selected",Toast.LENGTH_LONG).show();
                return true;
            case R.id.it2:
                Toast.makeText(this,"Item2 selected",Toast.LENGTH_LONG).show();
                return true;
            default:
                return super.onOptionsItemSelected(item);
        }
    }
    public boolean onCreateOptionsMenu(Menu menu)
    {
        getMenuInflater().inflate(R.menu.option_menu, menu);
        return true;
    }
    public boolean onOptionsItemSelected(@NonNull MenuItem item)
    {
        switch (item.getItemId())
        {
            case R.id.item1:
                Toast.makeText(this,"Item! selected",Toast.LENGTH_LONG).show();
                return true;
            case R.id.item2:
                Toast.makeText(this,"Item2 selected",Toast.LENGTH_LONG).show();
            default:
                return super.onOptionsItemSelected(item);
        }
    }
    public void Showpopup(View view )
```

```
{
    PopupMenu popupMenu=new PopupMenu(this,view);
    popupMenu.inflate(R.menu.popup_menu);
    popupMenu.show();
    popupMenu.setOnMenuItemClickListener(new PopupMenu.OnMenuItemClickListener() {
        @Override
        public boolean onMenuItemClick(MenuItem menuItem) {
            switch (menuItem.getItemId())
            {
                case R.id.itt1:
                    Toast.makeText(MainActivity.this,"Item! selected",Toast.LENGTH_LONG).show();
                    return true;

            }
            return false;
        }
    });
}
```

Example dialog.java

```
package com.example.assignment_no5;
```

```
import android.app.Dialog;
import android.content.DialogInterface;
import android.os.Bundle;
import android.widget.EditText;
import android.widget.Toast;
import android.view.LayoutInflater;
import android.view.View;
```

```
import androidx.annotation.Nullable;
import androidx.annotation.NonNull;
import androidx.appcompat.app.AlertDialog;
import androidx.appcompat.app.AppCompatActivity;
```

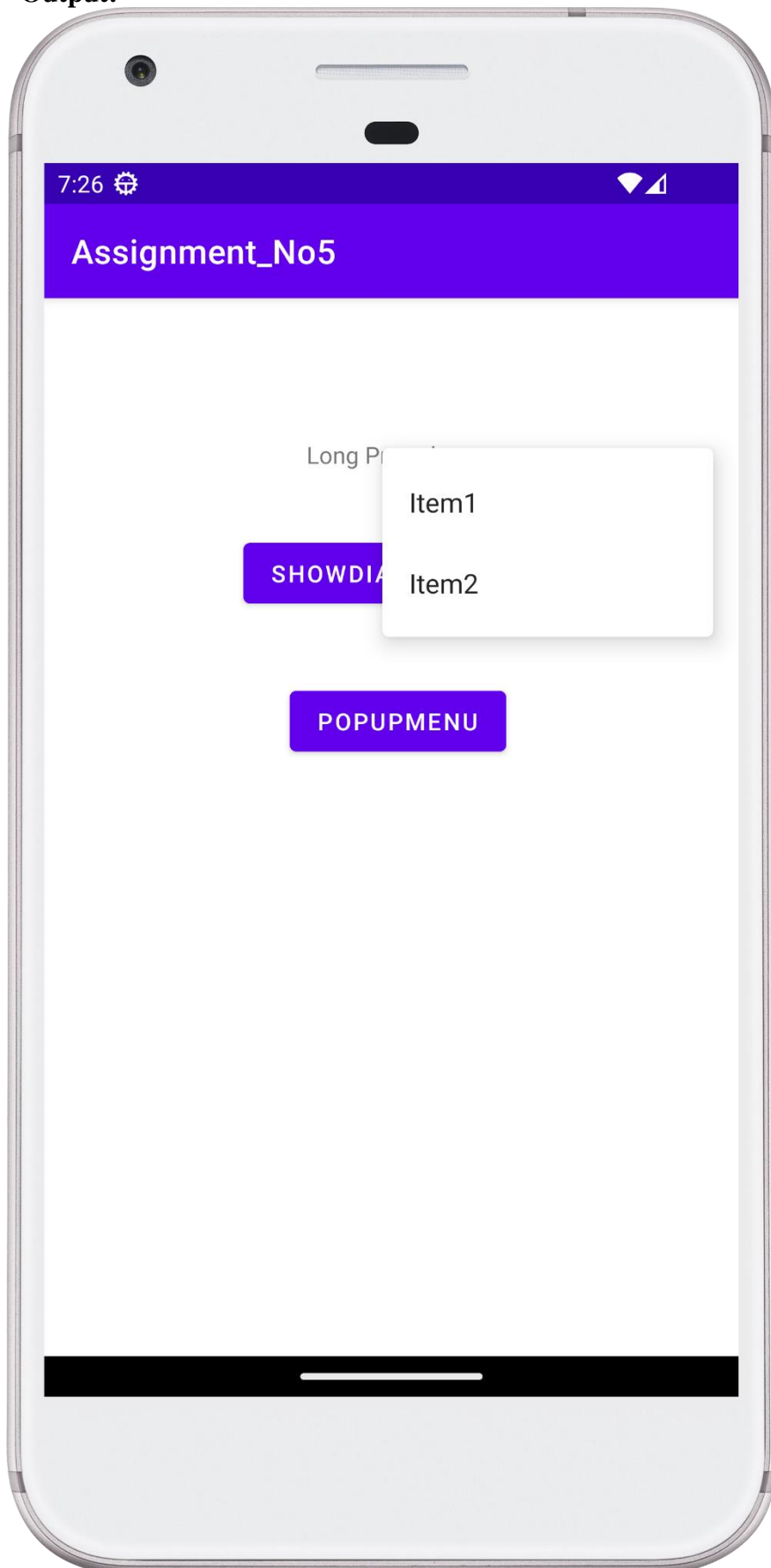
```
public class example_dialog extends AppCompatActivity {
    EditText name,Pass;
    @NonNull
    @Override
    public Dialog onCreateDialog(@Nullable Bundle savedInstanceState)
    {
        AlertDialog.Builder builder=new AlertDialog.Builder(getActivity());
        LayoutInflater layoutInflate=getActivity().getLayoutInflater();
        View view= layoutInflate.inflate(R.layout.dialogbox,null);
        name =view.findViewById(R.id.editTextTextPersonName);
        Pass=view.findViewById(R.id.editTextTextPersonName2);
        builder.setView(view)
            .setTitle("registration")
            .setNegativeButton("cancel", new DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialogInterface, int i) {
                    //
                }
            })
    }
}
```

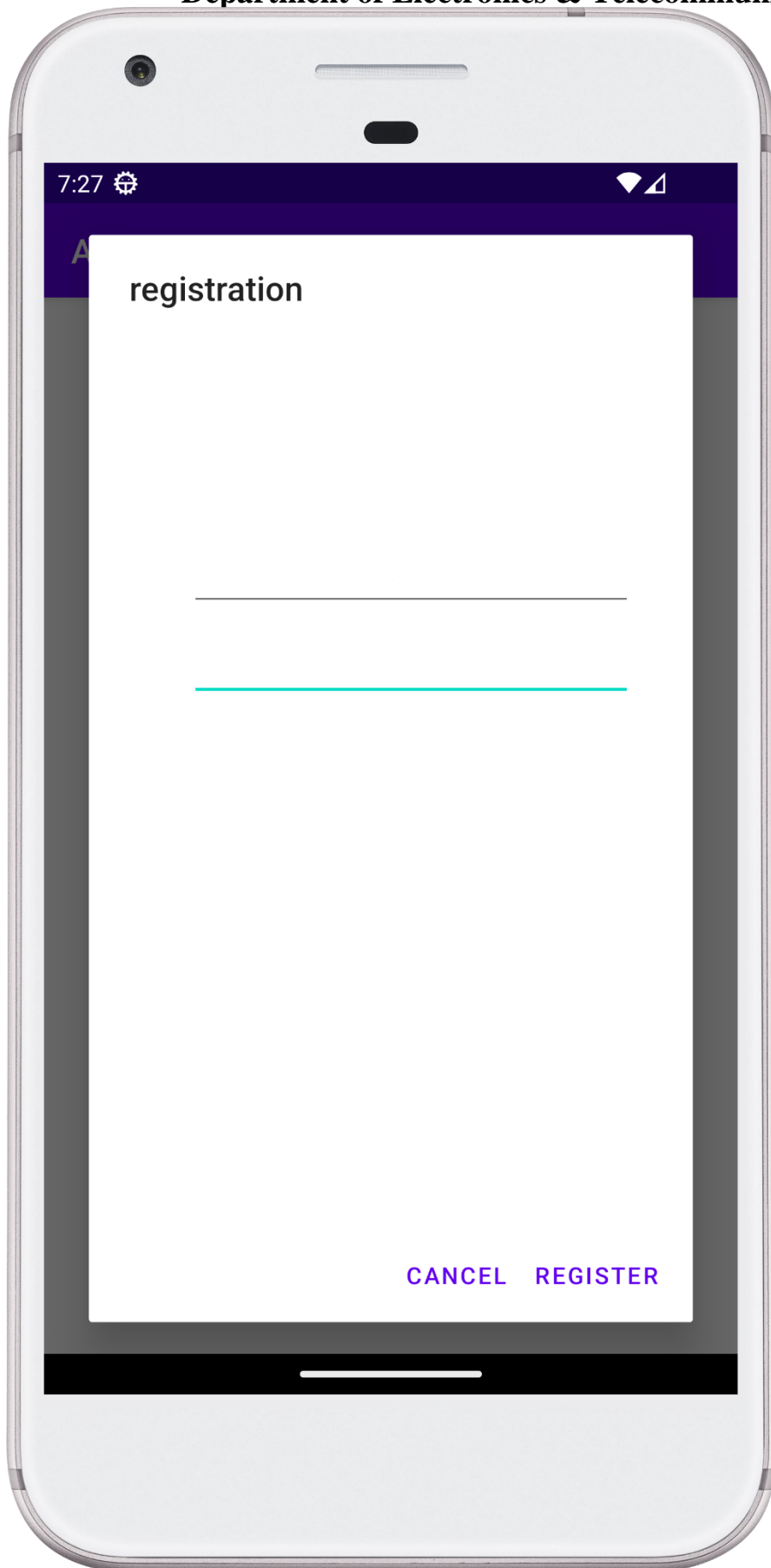
```
    })
    .setPositiveButton("register", new DialogInterface.OnClickListener() {
        @Override
        public void onClick(DialogInterface dialogInterface, int i) {

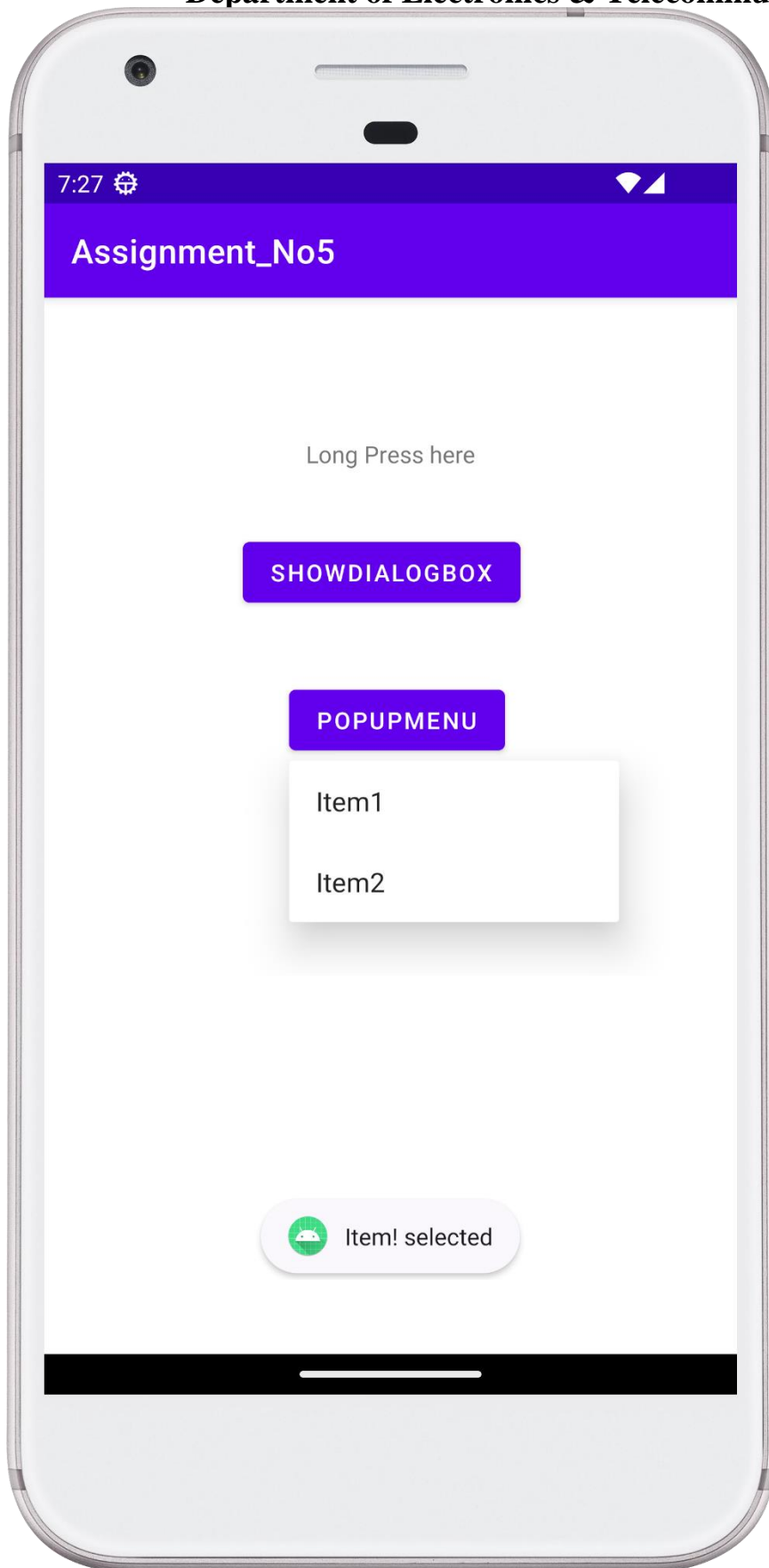
        }
    });
    return builder.create();
}
```



Output:









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CONCLUSION:

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