**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/titleId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="234dp"  
 android:layout\_marginEnd="134dp"  
 android:text="LOGIN HERE"  
 android:textSize="20sp"  
 android:textStyle="bold"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <Button  
 android:id="@+id/buttonId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginStart="19dp"  
 android:layout\_marginBottom="40dp"  
 android:onClick="showPopUp"  
 android:text="Button"  
 app:layout\_constraintBottom\_toTopOf="@+id/dialogButtonId"  
 app:layout\_constraintStart\_toStartOf="@+id/dialogButtonId" />  
  
 <TextView  
 android:id="@+id/userNameId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="40dp"  
 android:text="Username"  
 app:layout\_constraintStart\_toStartOf="@+id/titleId"  
 app:layout\_constraintTop\_toBottomOf="@+id/titleId" />  
  
 <TextView  
 android:id="@+id/passwordId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="37dp"  
 android:text="Password"  
 app:layout\_constraintStart\_toStartOf="@+id/userNameId"  
 app:layout\_constraintTop\_toBottomOf="@+id/userNameId" />  
  
 <Button  
 android:id="@+id/dialogButtonId"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginBottom="123dp"  
 android:text="Open Dialog"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent" />  
  
</androidx.constraintlayout.widget.ConstraintLayout>

**Dialog.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/editTextName"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="145dp"  
 android:ems="10"  
 android:inputType="textPersonName"  
 android:text="USERNAME"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintHorizontal\_bias="0.497"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toTopOf="parent" />  
  
 <EditText  
 android:id="@+id/editTextPassword"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="49dp"  
 android:ems="10"  
 android:inputType="textPassword"  
 android:text="abc123"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 app:layout\_constraintTop\_toBottomOf="@+id/editTextName" />  
</androidx.constraintlayout.widget.ConstraintLayout>

**Under Menu Folder:  
  
context\_menu.xml:**<?xml version="1.0" encoding="utf-8"?>  
<menu xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:android="http://schemas.android.com/apk/res/android">  
 <item  
 android:id="@+id/settingsId"  
 android:icon="@drawable/baseline\_settings\_24"  
 app:showAsAction="withText"  
 android:title="Settings" />  
  
 <item  
 android:id="@+id/contactUsId"  
 android:title="Contact Us"  
 android:icon="@drawable/baseline\_call\_24"  
 app:showAsAction="withText" />  
 <item  
 android:id="@+id/shareId"  
 android:title="Share"  
 android:icon="@drawable/baseline\_share\_24"  
 app:showAsAction="withText" />  
  
</menu>

**Popup\_menu.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/openId"  
 android:title="OPEN"  
 android:icon="@drawable/baseline\_open\_in\_new\_24"  
 app:showAsAction="withText" />  
  
 <item  
 android:id="@+id/editId"  
 android:title="EDIT"  
 android:icon="@drawable/baseline\_edit\_24"  
 app:showAsAction="withText" />  
  
 <item  
 android:id="@+id/fileId"  
 android:title="FILE"  
 android:icon="@drawable/round\_insert\_drive\_file\_24"  
 app:showAsAction="withText" >  
  
 <menu>  
 <item  
 android:id="@+id/newFileId"  
 android:title="NEW"  
 app:showAsAction="withText"/>  
 <item  
 android:id="@+id/renameId"  
 android:title="RENAME"  
 app:showAsAction="withText"/>  
 </menu>  
 </item>  
  
  
  
</menu>

**MainActivity.java:**package com.example.popup\_dialog\_expt5;  
  
import androidx.annotation.NonNull;  
import androidx.appcompat.app.AppCompatActivity;  
  
import android.content.DialogInterface;  
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.EditText;  
import android.widget.PopupMenu;  
import android.widget.TextView;  
import android.widget.Toast;  
  
public class MainActivity extends AppCompatActivity implements DialogSetter.ExampleDialogListener{  
 TextView userName,password;  
 @Override  
 public void applyTexts(String uName, String pass) {  
 userName.setText(uName);  
 password.setText(pass);  
 }  
  
 //Options Menu  
 @Override  
 public boolean onCreateOptionsMenu(Menu menu) {  
 MenuInflater inflater=(MenuInflater)getMenuInflater();  
 inflater.inflate(R.menu.*context\_menu*,menu);  
 return super.onCreateOptionsMenu(menu);  
 }  
  
 @Override  
 public boolean onOptionsItemSelected(@NonNull MenuItem item) {  
  
 switch (item.getItemId()){  
 case R.id.*settingsId*:  
 Toast.*makeText*(this,"Settings",Toast.*LENGTH\_LONG*).show();  
 return true;  
 case R.id.*contactUsId*:  
 Toast.*makeText*(this,"Contact Us",Toast.*LENGTH\_LONG*).show();  
 return true;  
 case R.id.*shareId*:  
 Toast.*makeText*(this,"Share",Toast.*LENGTH\_LONG*).show();  
 return true;  
 default:  
 return super.onOptionsItemSelected(item);  
 }  
  
 }  
 public void openDialog(){  
 DialogSetter dialogSetter=new DialogSetter();  
 dialogSetter.show(getSupportFragmentManager(),"dialog");  
 }  
  
 //Context Menu Implementation  
 @Override  
 public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.ContextMenuInfo menuInfo) {  
 super.onCreateContextMenu(menu, v, menuInfo);  
 menu.setHeaderTitle("Choose a title");  
 MenuInflater menuInflater=getMenuInflater();  
 menuInflater.inflate(R.menu.*context\_menu*,menu);  
 }  
 @Override  
 public boolean onContextItemSelected(@NonNull MenuItem item) {  
 switch(item.getItemId()){  
 case R.id.*settingsId*:  
 Toast.*makeText*(this,"Settings Selected", Toast.*LENGTH\_LONG*).show();  
 return true;  
 case R.id.*contactUsId*:  
 Toast.*makeText*(this,"Contact Us Selcted",Toast.*LENGTH\_LONG*).show();  
 return true;  
 case R.id.*shareId*:  
 Toast.*makeText*(this,"Share Selected",Toast.*LENGTH\_LONG*).show();  
 return true;  
 default:  
 return super.onOptionsItemSelected(item);  
 }  
 }  
  
 //Popup Menu  
 public void showPopUp(View view){  
 PopupMenu popupMenu=new PopupMenu(MainActivity.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.*openId*:  
 Toast.*makeText*(MainActivity.this,"Open Selected",Toast.*LENGTH\_LONG*).show();  
 return true;  
 case R.id.*editId*:  
 Toast.*makeText*(MainActivity.this,"Edit Selected",Toast.*LENGTH\_LONG*).show();  
 return true;  
 case R.id.*fileId*:  
 Toast.*makeText*(MainActivity.this,"File Selected",Toast.*LENGTH\_LONG*).show();  
 return true;  
 default:  
 return false;  
 }  
 }  
 }  
 );  
 }  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_main*);  
 TextView title=findViewById(R.id.*titleId*);  
 userName=findViewById(R.id.*userNameId*);  
 password=findViewById(R.id.*passwordId*);  
  
 Button openDialogButton=findViewById(R.id.*dialogButtonId*);  
 Button button=findViewById(R.id.*buttonId*);  
  
 openDialogButton.setOnClickListener(  
 new View.OnClickListener(){  
 @Override  
 public void onClick(View view) {  
 openDialog();  
 }  
 }  
 );  
 button.setOnClickListener(  
 new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 showPopUp(v);  
 }  
 }  
 );  
 registerForContextMenu(title);  
  
 }  
  
  
}

**DialogSetter.java:**package com.example.popup\_dialog\_expt5;  
  
import android.app.AlertDialog;  
import android.app.Dialog;  
import android.content.Context;  
import android.content.DialogInterface;  
import android.os.Bundle;  
import android.view.LayoutInflater;  
import android.view.View;  
import android.widget.EditText;  
import android.widget.Toast;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.appcompat.app.AppCompatDialogFragment;  
  
public class DialogSetter extends AppCompatDialogFragment {  
 public interface ExampleDialogListener{  
 public void applyTexts(String userName,String password);  
 }  
 public EditText userName,password;  
 private ExampleDialogListener exampleDialogListener;  
  
 @NonNull  
 @Override  
 public Dialog onCreateDialog(@Nullable Bundle savedInstanceState) {  
  
 AlertDialog.Builder builder=new AlertDialog.Builder(getActivity());  
 LayoutInflater layoutInflater=(LayoutInflater) getActivity().getLayoutInflater();  
 View view=layoutInflater.inflate(R.layout.*dialog*,null);  
 userName=view.findViewById(R.id.*editTextName*);  
 password=view.findViewById(R.id.*editTextPassword*);  
  
 builder.setView(view).setTitle("Login").setNegativeButton("Cancel", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i) {  
// Toast.makeText((DialogInterface) this,"Cancelled....",Toast.LENGTH\_LONG);  
 }  
 }).setPositiveButton("OK", new DialogInterface.OnClickListener() {  
 @Override  
 public void onClick(DialogInterface dialogInterface, int i) {  
 String uName=userName.getText().toString();  
 String pass=password.getText().toString();  
 exampleDialogListener.applyTexts(uName,pass);  
 }  
 });  
 return builder.create();  
 }  
  
 @Override  
 public void onAttach(@NonNull Context context) {  
 super.onAttach(context);  
 try {  
 exampleDialogListener=(ExampleDialogListener) context;  
 } catch (ClassCastException e) {  
 throw new ClassCastException(context.toString()+"Please Implement ExampleDialogListner");  
 }  
  
 }  
}