



MOBILE APPLICATION DEVELOPMENT

Lab 5



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BSCS-VII

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Activity 1: Create a Login Page using Menu

Layout

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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=".Home">
<include layout="@layout/toolbar"
```

```
        android:id="@+id/toolbar"
    />
</LinearLayout>
```

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:background="#125312"
    android:orientation="vertical"
    tools:context=".MainActivity">
    <include layout="@layout/toolbar"
        android:id="@+id/toolbar"
    />
    <EditText
        android:id="@+id/Email"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:layout_gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="200dp"
        android:layout_marginRight="20dp"
        android:layout_weight="0"
        android:background="@color/white"
        android:hint="Email"
        android:textColor="@color/black"
        android:inputType="textEmailAddress" />

    <EditText

        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:layout_gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginRight="20dp"
        android:layout_weight="0"
        android:background="@color/white"
        android:hint="Password"
        android:inputType="textPassword"
```

```

        android:textColor="@color/black"
    />

    <Button
        android:id="@+id/button"
        android:layout_width="match_parent"
        android:layout_height="70dp"
        android:layout_gravity="center"
        android:layout_marginLeft="20dp"
        android:layout_marginTop="20dp"
        android:layout_marginRight="20dp"
        android:layout_weight="0"
        android:backgroundTint="@color/white"
        android:text="Login"
        android:textColor="#125312"
        android:onClick="login"
    />

    <TextView
        android:id="@+id/textView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_marginTop="100dp"
        android:layout_weight="0"
        android:onClick="signup"
        android:text="Not a member ? Sign up now"
        android:textColor="@color/white"
        android:textSize="20sp" />

</LinearLayout>

```

```

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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:background="#1D2E1D"
    android:orientation="vertical"
    tools:context=".Signup">

    <EditText

```

```
android:id="@+id/Name"
android:layout_width="match_parent"
android:layout_height="50dp"
android:layout_gravity="center"
android:layout_marginLeft="20dp"
android:layout_marginTop="200dp"
android:layout_marginRight="20dp"
android:layout_weight="0"
android:background="#808080"
android:hint="Fullname"
android:inputType="textPersonName" />
```

<EditText

```
android:id="@+id/Email"
android:layout_width="match_parent"
android:layout_height="50dp"
android:layout_gravity="center"
android:layout_marginLeft="20dp"
android:layout_marginTop="20dp"
android:layout_marginRight="20dp"
android:layout_weight="0"
android:background="#808080"
android:hint="Email"
android:inputType="textEmailAddress" />
```

<EditText

```
android:id="@+id/password"
android:layout_width="match_parent"
android:layout_height="50dp"
android:layout_gravity="center"
android:layout_marginLeft="20dp"
android:layout_marginTop="20dp"
android:layout_marginRight="20dp"
android:layout_weight="0"
android:background="#808080"
android:hint="Password"
android:inputType="textPassword"
```

/>

<Button

```
android:id="@+id/button"
```

```
    android:layout_width="match_parent"
    android:layout_height="70dp"
    android:layout_gravity="center"
    android:layout_marginLeft="20dp"
    android:layout_marginTop="20dp"
    android:layout_marginRight="20dp"
    android:layout_weight="0"
    android:backgroundTint="#FF1493"
    android:onClick="signup"
    android:text="Register"
    android:textColor="@color/white" />
```

```
<TextView
    android:id="@+id/textView"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_gravity="center"
    android:layout_marginTop="90dp"
    android:layout_weight="0"
    android:text="Already registered !Login Me."
    android:textColor="@color/white"
    android:textSize="20sp"
    android:onClick="login"
/>
```

```
</LinearLayout>
```

Toolbar

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.appcompat.widget.Toolbar xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:background="@color/teal_700"
    android:id="@+id/toolbar"
    android:theme="@style/ThemeOverlay.AppCompat.Dark"
    app:logo="@drawable/abc_vector_test"
    app:titleTextColor="@color/white"
/>
```

```
</androidx.appcompat.widget.Toolbar>
```

Menu

```
<?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"
      android:layout_width="match_parent"
      android:layout_height="wrap_content"
      app:logo="@drawable/facebook"

      android:theme="@style/ThemeOverlay.AppCompat.Dark"
      >

    <item
        android:title="HOME"
        android:id="@+id/home"
        app:showAsAction="always"
        >

</item>

    <item
        android:title="|"
        android:id="@+id/divider"
        app:showAsAction="always"
        >

</item>

    <item
        android:title="LOGOUT"
        android:id="@+id/logout"
        app:showAsAction="always"
        >

</item>

</menu>
```

Logic Code

```
package com.example.login;

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

import android.content.Intent;
import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;

public class Home extends AppCompatActivity {

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_home);
        Toolbar toolbar=findViewById(R.id.toolbar);
        setSupportActionBar(toolbar);

    }

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

    @Override
    public boolean onOptionsItemSelected(@NonNull MenuItem item) {
        switch (item.getItemId()){
            case R.id.logout:
                Intent intent=new Intent(this,MainActivity.class);
                startActivity(intent);
                break;

        }
    }
}
```



```
        return super.onOptionsItemSelected(item);
    }
}
```

```
package com.example.login;

import androidx.annotation.Nullable;
import androidx.appcompat.app.AppCompatActivity;
import androidx.appcompat.widget.Toolbar;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.util.Log;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

import java.util.zip.Inflater;

public class MainActivity extends AppCompatActivity {

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

    public void login(View view){
        EditText Email=(EditText)findViewById(R.id.Email);
        EditText Password=(EditText)findViewById(R.id.password);

        SharedPreferences prefs=getSharedPreferences("user",MODE_PRIVATE);
        String d=prefs.getString(Email.getText().toString(),"none");
        Log.i("val",d);

        if(d.equals(Password.getText().toString()))
            Toast.makeText(this,"Login Successfully",Toast.LENGTH_LONG).show();
        else
            Toast.makeText(this, "Sign up first", Toast.LENGTH_LONG).show();
    }
}
```

```

        Intent intent=new Intent(this,Home.class);
        startActivity(intent);

    }

    public void signup(View view){
        Intent intent=new Intent(this,Signup.class);
        startActivity(intent);
    }

}

```

```

package com.example.login;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent;
import android.content.SharedPreferences;
import android.os.Bundle;
import android.view.View;
import android.widget.EditText;
import android.widget.Toast;

public class Signup extends AppCompatActivity {

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

    public void signup(View view){
        EditText Email=(EditText)findViewById(R.id.Email);
        EditText Password=(EditText)findViewById(R.id.password);

        SharedPreferences prefs=getSharedPreferences("user",MODE_PRIVATE);
        SharedPreferences.Editor editor=prefs.edit();

        editor.putString(Email.getText().toString(),Password.getText().toString());
    };

    editor.commit();
    Toast.makeText(this,"You are registered",Toast.LENGTH_LONG).show();
}

```

```
public void login(View view){  
    Intent intent=new Intent(this,MainActivity.class);  
    startActivity(intent);  
  
    }  
}
```

Output

1:02



daniyal

daniyal.bcs@gmail.com

..

REGISTER

Already registered !Login Me.

You are registered





Activity 2: Create floating context menu and Contextual Action Bar Layout

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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">

    <ImageView
        android:id="@+id/imageView"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        app:srcCompat="@drawable/img" />

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:onClick="next"
        android:text="next" />
</LinearLayout>
```

```
<?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=".MainActivity2">

    <Button
        android:id="@+id/button"

```

```

        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="44dp"
        android:layout_marginLeft="44dp"
        android:layout_marginTop="140dp"
        android:background="#5A1D1D"
        android:maxLines="8"
        android:text="Shakespeare \n\n\n\n\n\n\nHamlet"
        app:backgroundTint="#808080"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</androidx.constraintlayout.widget.ConstraintLayout>

```

Menu

```

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

    <item android:title="Download image"></item>
    <item android:title="Open image in new tab"></item>
    <item android:title="Search Google for this image"></item>
    <item android:title="Share image"></item>

</menu>

```

```

<?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:title="label"
      android:icon="@drawable/label"
      app:showAsAction="always"
      >
</item>

    <item android:title="color"
          android:icon="@drawable/color"
          app:showAsAction="always"

    > </item>

    <item android:title="pin"
          android:icon="@drawable/pin"
          app:showAsAction="always"

```

```

        >

    </item>
    <item android:title="click"
        android:icon="@drawable/click"
        app:showAsAction="always"
        >

    </item>

</menu>

```

Logic Code

```

package com.example.float_menu;

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

import android.content.Intent;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.AdapterView;
import android.widget.AdapterView;

public class MainActivity extends AppCompatActivity {

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

        registerForContextMenu(findViewById(R.id.imageView));
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.Context
MenuInfo menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);
        MenuInflater inflater=getMenuInflater();

```



```

        inflater.inflate(R.menu.menu,menu);
    }
    public void next(View view){
        Intent intent=new Intent(this,MainActivity2.class);
        startActivity(intent);
    }
}

```

```

package com.example.float_menu;

import androidx.appcompat.app.AppCompatActivity;

import android.app.Application;
import android.content.Context;
import android.os.Bundle;
import android.view.ActionMode;
import android.view.Menu;
import android.view.MenuInflater;
import android.view.MenuItem;
import android.view.View;
import android.widget.TextView;
import android.widget.Toast;

public class MainActivity2 extends AppCompatActivity {
    ActionMode actionMode;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main2);
        TextView txt=findViewById(R.id.button);
        txt.setOnLongClickListener(new View.OnLongClickListener() {
            @Override
            public boolean onLongClick(View v) {

                if(actionMode!=null)
                    return false;
                actionMode=startActionMode(actionModeCallback);
                txt.setSelected(true);
                return true;
            }
        })
    }
}

```

```

});

}
private ActionMode.Callback actionModeCallback=new ActionMode.Callback() {
    @Override
    public boolean onCreateActionMode(ActionMode mode, Menu menu) {
        MenuInflater inflater=mode.getMenuInflater();
        inflater.inflate(R.menu.menu2,menu);
        return true;
    }

    @Override
    public boolean onPrepareActionMode(ActionMode mode, Menu menu) {
        return false;
    }

    @Override
    public boolean onActionItemClicked(ActionMode mode, MenuItem item) {

        return false;
    }

    @Override
    public void onDestroyActionMode(ActionMode mode) {
        actionMode=null;
    }
};
}

```

Output

1:01



1



NEXT

Download image

Open image in new tab

Search Google for this image

Share image





Activity 3: Menu Bar

Layout

```
<?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"/>
```

Menu

```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
<item android:title="Search"></item>
    <item android:title="Upload"></item>
    <item android:title="Copy"></item>
    <item android:title="Print"></item>
    <item android:title="Share"></item>
    <item android:title="Bookmark"></item>

</menu>
```

Logic Code

```
package com.example.sample_menu;

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

import android.os.Bundle;
import android.view.Menu;
import android.view.MenuInflater;

public class MainActivity extends AppCompatActivity {

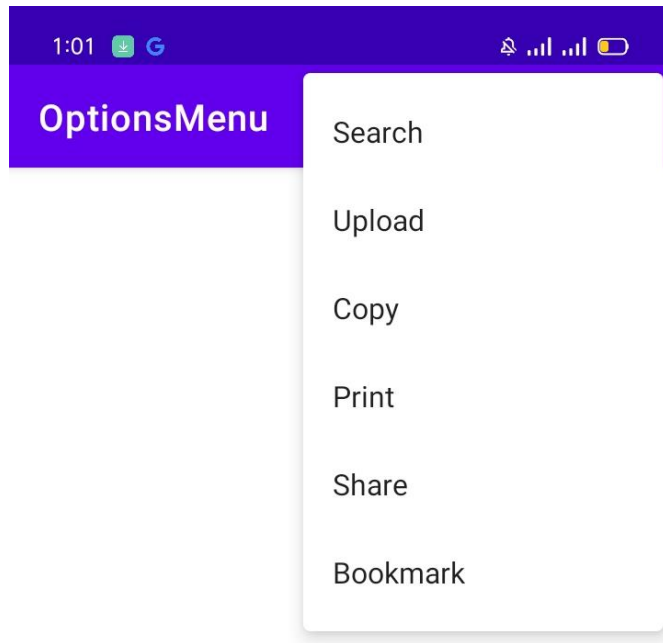
    @Override
    protected void onCreate(Bundle savedInstanceState) {
```

```
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
    }

    @Override
    public boolean onCreateOptionsMenu(Menu menu) {

        MenuInflater inflater=getMenuInflater();
        inflater.inflate(R.menu.menu,menu);
        return true;
    }
}
```

Output



Hello World!

Activity 4: Context Menu

Layout

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout 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="vertical"
    tools:context=".MainActivity">

    <Button
        android:id="@+id/button2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_gravity="center"
        android:layout_weight="0"
        android:text="LONG PRESS ME" />

</LinearLayout>
```

Menu

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

    <item android:title="Upload "></item>
    <item android:title="Search"></item>
    <item android:title="Share"></item>
    <item android:title="Bookmark"></item>

</menu>
```

Logic Code

```
package com.example.float_menu;

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

import android.content.Intent;
import android.os.Bundle;
import android.view.ContextMenu;
import android.view.MenuInflater;
import android.view.MenuItem;
```



```
import android.view.View;
import android.widget.Adapter;
import android.widget.AdapterView;

public class MainActivity extends AppCompatActivity {

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

        registerForContextMenu(findViewById(R.id.button2));
    }

    @Override
    public void onCreateContextMenu(ContextMenu menu, View v, ContextMenu.Context
MenuInfo menuInfo) {
        super.onCreateContextMenu(menu, v, menuInfo);
        MenuInflater inflater=getMenuInflater();
        inflater.inflate(R.menu.menu,menu);
    }
    public void next(View view){
        Intent intent=new Intent(this,MainActivity2.class);
        startActivity(intent);
    }

}
```

Output

