### 1. LOGIN PAGE

```
<?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">
  <EditText
    android:id="@+id/usernameInput"
    android:layout_width="0dp"
    android:layout height="wrap content"
    android:layout marginStart="32dp"
    android:layout marginEnd="32dp"
    android:layout marginTop="100dp"
    android:hint="Enter Username"
    android:inputType="textPersonName"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toEndOf="parent" />
  <EditText
    android:id="@+id/passwordInput"
    android:layout width="0dp"
    android:layout height="wrap content"
    android:layout_marginTop="16dp"
    android:layout marginStart="32dp"
    android:layout marginEnd="32dp"
    android:hint="Enter Password"
    android:inputType="textPassword"
    app:layout constraintTop toBottomOf="@id/usernameInput"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toEndOf="parent" />
  <Button
    android:id="@+id/loginButton"
    android:layout width="wrap content"
```

```
android:layout_height="wrap_content"
android:layout_marginTop="24dp"
android:text="Login"
app:layout_constraintTop_toBottomOf="@id/passwordInput"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintEnd_toEndOf="parent"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

# <!-- Replace with your actual package name --> package com.example.eg; import android.os.Bundle; import android.widget.Button; import android.widget.EditText; import android.widget.Toast; import androidx.appcompat.app.AppCompatActivity; public class MainActivity extends AppCompatActivity { EditText usernameInput, passwordInput; Button loginButton; @Override protected void onCreate(Bundle savedInstanceState) { super.onCreate(savedInstanceState); setContentView(R.layout.activity main); usernameInput = findViewById(R.id.usernameInput); passwordInput = findViewById(R.id.passwordInput); loginButton = findViewById(R.id.loginButton); loginButton.setOnClickListener(v -> { String username = usernameInput.getText().toString().trim(); String password = passwordInput.getText().toString().trim(); if (!username.isEmpty()) { Toast.*makeText*(MainActivity.this, "Username: " + username, Toast.LENGTH SHORT).show(); } else { Toast.makeText(MainActivity.this, "Please enter username",

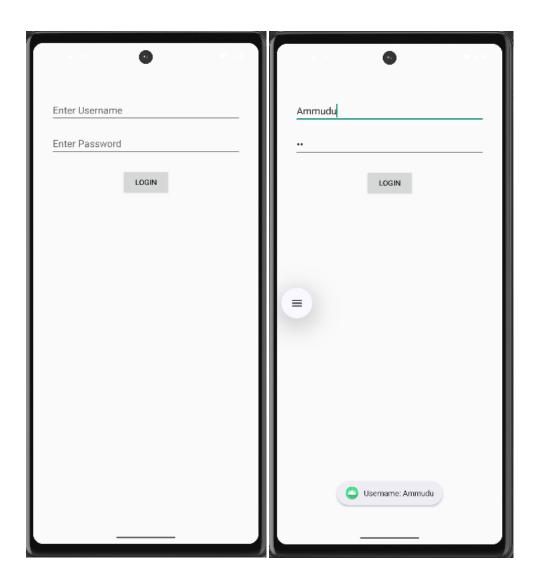
Toast.LENGTH SHORT).show();

```
});
}
}
```

### **AndroidManifest.xml:**

(USE IT IF XML AND JAVA CODE DOESN'T OPEN THE APP. IF THE APP OPEN SUCCESSFULLY WHEN YOU PUT JAVA AND XML CODE JUST LEAVE THIS CODE:)

```
CODE:)
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"</pre>
  xmlns:tools="http://schemas.android.com/tools">
  <application
    android:allowBackup="true"
    android:icon="@mipmap/ic_launcher"
    android:label="Login App"
    android:roundIcon="@mipmap/ic launcher round"
    android:supportsRtl="true"
    android:theme="@style/Theme.AppCompat.Light.NoActionBar"> <!-- Or use your
preferred theme -->
    <activity android:name=".MainActivity"
       android:exported="true">
       <intent-filter>
         <action android:name="android.intent.action.MAIN" />
         <category android:name="android.intent.category.LAUNCHER" />
       </intent-filter>
    </activity>
  </application>
</manifest>
```



### 2. DATE AND TIME PICKER

```
<?xml version="1.0" encoding="utf-8"?>
< ndroid.constraintlayout.widget.ConstraintLayout</p>
  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:id="@+id/main"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/datetime"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:hint="Display!"
    app:layout constraintTop toTopOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toEndOf="parent"
    android:layout marginTop="40dp"/>
  <Button
    android:id="@+id/button"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Show Time"
    android:onClick="showTime"
    app:layout constraintTop toBottomOf="@+id/datetime"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toEndOf="parent"
    android:layout marginTop="24dp"/>
  <ImageView
    android:id="@+id/imageView"
    android:layout width="191dp"
    android:layout height="183dp"
    app:srcCompat="@android:drawable/btn star big on"
    app:layout_constraintTop_toBottomOf="@+id/button"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintEnd toEndOf="parent"
    android:layout marginTop="24dp" />
ndroid.constraintlayout.widget.ConstraintLayout>
```

### **JAVA CODE:**

```
<!—Replace with your actual package name >
package com.example.eg;
import android.os.Bundle;
import android.view.View;
import android.widget.TextView;
import java.text.DateFormat;
import java.util.Date;
import □ndroid.activity.EdgeToEdge;
import □ndroid.appcompat.app.AppCompatActivity;
import □ndroid.core.graphics.Insets;
import □ndroid.core.view.ViewCompat;
import □ndroid.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
  }
  public void showTime(View v)
    TextView tv=(TextView)findViewById(R.id.datetime);
    Date d=new Date();
    String s=DateFormat.getDateTimeInstance().format(d);
    tv.setText(s);
  }
}
```

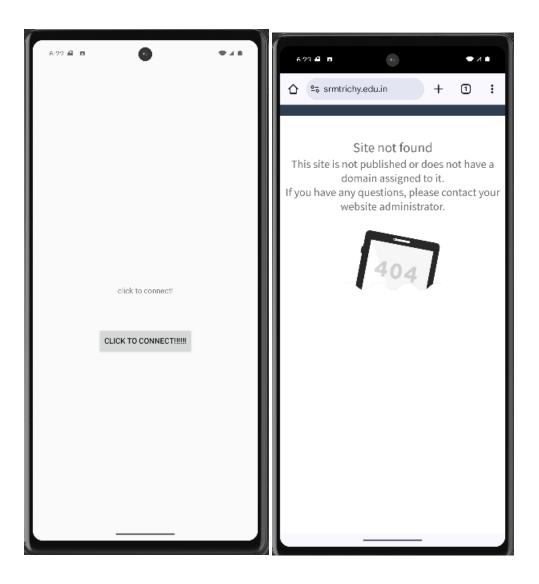


### 3. IMPLICIT INTENT

```
<?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:id="@+id/main"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="click to connect!"
    app:layout constraintBottom toBottomOf="parent"
    app:layout constraintEnd toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent" />
  <Button
    android:id="@+id/button"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout_marginTop="58dp"
    android:onClick="connect"
    android:text="CLICK TO CONNECT!!!!!"
    app:layout constraintEnd toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout constraintTop toBottomOf="@+id/textView2"
    tools:ignore="MissingConstraints,OnClick" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### **JAVA CODE:**

```
package com.example.eg;
import android.content.Intent;
import android.os.Bundle;
import android.net.Uri;
import android.view.View;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
  public void connect(View v)
    Intent i=new Intent(Intent.ACTION VIEW);
    i.setData(Uri.parse("https://www.srmtrichy.edu.in/"));
    startActivity(i);
  }
}
```



### 4. EXPLICIT INTENT

### 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:id="@+id/main"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <TextView
    android:id="@+id/textView2"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:text="Hello World!"
    app:layout constraintBottom toBottomOf="parent"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout constraintTop toTopOf="parent"
    app:layout_constraintVertical_bias="0.136" />
  <Button
    android:id="@+id/button"
    android:layout width="wrap content"
    android:layout height="wrap content"
    android:layout marginTop="96dp"
    android:onClick="show"
    android:text="Button"
    app:layout constraintStart toStartOf="@+id/textView2"
    app:layout_constraintTop_toBottomOf="@+id/textView2" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

### MainActivity.java

```
package com.example.eg;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    EdgeToEdge.enable(this);
    setContentView(R.layout.activity main);
  }
  public void show(View v) {
    Intent i = new Intent(getApplicationContext(), MainActivity3.class);
    startActivity(i);
  }
}
activity main2.xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</p>
  android:layout width="match parent"
  android:layout height="match parent"
  android:orientation="vertical"
  android:padding="16dp">
  <Button
    android:id="@+id/button2"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:onClick="display"
    android:text="Show Toast" />
  <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
```

```
android:layout_height="wrap_content"
android:text="TextView"
android:layout_marginTop="24dp" />
</LinearLayout>
```

### MainActivity3.java

```
package com.example.eg;
import android.os.Bundle;
import android.view.View;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;
public class MainActivity3 extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity main2); // activity main2.xml
  }
  public void display(View v) {
    Toast.makeText(getApplicationContext(), "I'm activity 2. Welcome All to SRM",
Toast.LENGTH SHORT).show();
  }
}
```

#### AndroidManifest.xml

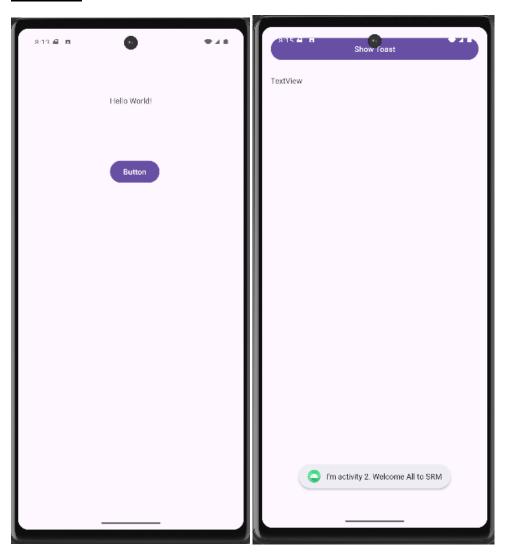
```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
   xmlns:tools="http://schemas.android.com/tools"
   package="com.example.eg">
   <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="@string/app_name"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"</pre>
```

```
android:theme="@style/Theme.Eg"
tools:targetApi="31">

<activity
    android:name=".MainActivity"
    android:exported="true">
        <intent-filter>
        <action android:name="android.intent.action.MAIN" />
        <category android:name="android.intent.category.LAUNCHER" />
        </intent-filter>
        </activity>

        <activity android:name=".MainActivity3" />

        </application>
</manifest>
```



#### 5. STUDENT REGISTRATION FORM

```
<?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:id="@+id/main"
  android:layout width="match parent"
  android:layout height="match parent"
  tools:context=".MainActivity">
  <LinearLayout
    android:layout width="406dp"
    android:layout_height="722dp"
    android:orientation="horizontal"
    tools:layout editor absoluteX="1dp"
    tools:layout editor absoluteY="1dp"
    tools:ignore="MissingConstraints">
    <ListView
       android:id="@+id/list"
       android:layout width="match parent"
       android:layout height="match parent" />
  </LinearLayout>
</androidx.constraintlayout.widget.ConstraintLayout>
```

### **JAVA CODE:**

```
package com.example.eg;
import android.os.Bundle;
import android.widget.ArrayAdapter;
import android.widget.ListView;
import androidx.activity.EdgeToEdge;
import androidx.appcompat.app.AppCompatActivity;
import androidx.core.graphics.Insets;
import androidx.core.view.ViewCompat;
import androidx.core.view.WindowInsetsCompat;
public class MainActivity extends AppCompatActivity {
  ListView 1;
  String registration[]={"student registration form","personal details","academic
Details", "Co Curricular activities", "Extra-curricular Activities", "Skill-set", "Project Details" };
  @Override
  protected void onCreate(Bundle savedInstanceState) {
     super.onCreate(savedInstanceState);
     EdgeToEdge.enable(this);
     setContentView(R.layout.activity main);
     1 = findViewById(R.id.list);
    ArrayAdapter<String> arr;
     arr = new ArrayAdapter (MainActivity.this, android.R.layout.simple spinner item,
         registration);
    l. setAdapter(arr);
  }}
```

