Online Book Store

Contents

MainActivity
XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="16dp">

    <EditText
        android:id="@+id/username"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Email"
        android:inputType="textEmailAddress"
        android:layout_marginBottom="16dp"/>

    <EditText
        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword"
        android:layout_marginBottom="16dp"/>

    <Button
        android:id="@+id/loginButton"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Login"
        android:layout_marginBottom="16dp"/>

    <Button
        android:id="@+id/signupButton"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:text="Sign Up" />
</LinearLayout>
```

JAVA

```java
package com.example.obs;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class MainActivity extends AppCompatActivity {

    private EditText username, password;
    private Button loginButton, signupButton;

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

        // Initialize UI components
        username = findViewById(R.id.username);
        password = findViewById(R.id.password);
        loginButton = findViewById(R.id.loginButton);
        signupButton = findViewById(R.id.signupButton);

        // Set onClickListener for login button
        loginButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String email = username.getText().toString();
                String pass = password.getText().toString();

                // Check if fields are empty
                if (email.isEmpty() || pass.isEmpty()) {
                    Toast.makeText(MainActivity.this, "Please fill all
fields", Toast.LENGTH_SHORT).show();
                } else {
                    // Placeholder logic for login validation (use your own
authentication logic)
                    if (email.equals("admin") && pass.equals("password")) {
// Example credentials
                        Toast.makeText(MainActivity.this, "Login Successful",
Toast.LENGTH_SHORT).show();
                        Intent intent = new Intent(MainActivity.this,
DashboardActivity.class);
                        startActivity(intent);
                        finish();
                    } else {
                        Toast.makeText(MainActivity.this, "Invalid username
or password", Toast.LENGTH_SHORT).show();
                    }
```

```
                }
            }
        });

        // Set onClickListener for signup button
        signupButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                Intent intent = new Intent(MainActivity.this,
SignupActivity.class);
                startActivity(intent);
            }
        });
    }
}
```

SignupActivity

XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:gravity="center"
    android:padding="16dp">

    <EditText
        android:id="@+id/username"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Email"
        android:inputType="textEmailAddress"
        android:layout_marginBottom="16dp"/>

    <EditText
        android:id="@+id/password"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Password"
        android:inputType="textPassword"
        android:layout_marginBottom="16dp"/>

    <EditText
        android:id="@+id/confirmPassword"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:hint="Confirm Password"
        android:inputType="textPassword"
        android:layout_marginBottom="16dp"/>

    <Button
        android:id="@+id/signupButton"
        android:layout_width="match_parent"
```

```xml
        android:layout_height="wrap_content"
        android:text="Sign Up" />
</LinearLayout>
```

JAVA

```java
package com.example.obs;

import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.Toast;
import androidx.appcompat.app.AppCompatActivity;

public class SignupActivity extends AppCompatActivity {

    private EditText username, password, confirmPassword;
    private Button signupButton;

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

        // Initialize UI components
        username = findViewById(R.id.username);
        password = findViewById(R.id.password);
        confirmPassword = findViewById(R.id.confirmPassword);
        signupButton = findViewById(R.id.signupButton);

        // Set onClickListener for signup button
        signupButton.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View v) {
                String email = username.getText().toString();
                String pass = password.getText().toString();
                String confirmPass = confirmPassword.getText().toString();

                // Validate input fields
                if (email.isEmpty() || pass.isEmpty() ||
confirmPass.isEmpty()) {
                    Toast.makeText(SignupActivity.this, "Please fill all
fields", Toast.LENGTH_SHORT).show();
                } else if (!pass.equals(confirmPass)) {
                    Toast.makeText(SignupActivity.this, "Passwords do not
match", Toast.LENGTH_SHORT).show();
                } else {
                    // Placeholder logic for signup (store user data locally
or use your own database logic)
                    Toast.makeText(SignupActivity.this, "Signup Successful",
Toast.LENGTH_SHORT).show();
                    Intent intent = new Intent(SignupActivity.this,
DashboardActivity.class);
```

```
                    startActivity(intent);
                    finish();
            }
        }
    });
}
}
```

DashboardActivity

XML

```xml
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout
    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=".DashboardActivity">

    <!-- Search View -->
    <androidx.appcompat.widget.SearchView
        android:id="@+id/search"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="16dp"
        android:layout_marginStart="12dp"
        android:layout_marginEnd="12dp"
        app:iconifiedByDefault="false"
        app:searchHintIcon="@null"
        app:queryHint="Search..."
        android:focusable="false"/>
        <!--
        app:closeIcon="@drawable/ic_baseline_clear_24"
        app:searchIcon="@drawable/ic_baseline_search_24"
        android:background="@drawable/lavender_border" />
        -->
    <!-- RecyclerView -->
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclerView"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_below="@id/search"
        android:layout_marginTop="8dp"
        android:padding="16dp"
        android:clipToPadding="false"
        android:scrollbars="vertical"
        android:background="#F5F5F5" />
</RelativeLayout>
```

JAVA

```java
package com.example.obs;

import android.os.Bundle;
import android.text.TextUtils;
import android.widget.SearchView;
import androidx.appcompat.app.AppCompatActivity;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;
import java.util.ArrayList;
import java.util.List;

public class DashboardActivity extends AppCompatActivity {

    private CategoriesAdapter adapter;
    private List<String> categoryList;
    private List<String> filteredList;

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

        // Initialize category list
        categoryList = new ArrayList<>();
        categoryList.add("Islamic");
        categoryList.add("History");
        categoryList.add("Fantasy");
        categoryList.add("Travel");
        categoryList.add("Horror");
        categoryList.add("Thriller");
        categoryList.add("Health & Fitness");
        categoryList.add("Romance");
        categoryList.add("Mystery");
        categoryList.add("Children's Books");
        categoryList.add("Cooking");
        categoryList.add("Technology");
        categoryList.add("Sports");
        categoryList.add("Fiction");
        categoryList.add("Non-Fiction");
        categoryList.add("Politics");
        categoryList.add("Music");
        categoryList.add("Spirituality");
        categoryList.add("Drama");
        categoryList.add("Humor");
        categoryList.add("Crime");
        categoryList.add("Economics");
        categoryList.add("Animals & Nature");

        // Initialize filtered list
        filteredList = new ArrayList<>(categoryList);

        // Set up RecyclerView
        RecyclerView recyclerView = findViewById(R.id.recyclerView);
        recyclerView.setLayoutManager(new LinearLayoutManager(this));
```

```java
        adapter = new CategoriesAdapter(this, filteredList);
        recyclerView.setAdapter(adapter);

        // Set up SearchView
        SearchView searchView = findViewById(R.id.search);
        searchView.setOnQueryTextListener(new
SearchView.OnQueryTextListener() {
            @Override
            public boolean onQueryTextSubmit(String query) {
                filterCategories(query);
                return false;
            }

            @Override
            public boolean onQueryTextChange(String newText) {
                filterCategories(newText);
                return false;
            }
        });
    }

    // Filter method to search categories
    private void filterCategories(String query) {
        filteredList.clear();
        if (TextUtils.isEmpty(query)) {
            filteredList.addAll(categoryList); // Show all categories when
query is empty
        } else {
            for (String category : categoryList) {
                if (category.toLowerCase().contains(query.toLowerCase())) {
                    filteredList.add(category);
                }
            }
        }
        adapter.notifyDataSetChanged(); // Notify adapter of data changes
    }
}
```