Bahria University,

Karachi Campus

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LAB EXPERIMENT NO.

**12**

LIST OF TASKS

|  |  |
| --- | --- |
| TASK NO | OBJECTIVE |
| 1 | You are tasked with developing a basic e-commerce home page for an Android application. The home page should have an options menu that provides navigation and settings options. Additionally, each product item on the home page should have a popup menu with actions like "Add to Cart" and "Add to Wishlist.“   1. Home Page Layout: The home page should display a list of products. 2. Options Menu: The options menu should include "Home", "Profile", and "Settings". 3. Popup Menu: Each product item should have a button that shows a popup menu with "Add to Cart" and "Add to Wishlist" options. |

Submitted On:

14 June 2024

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(Date: DD/MM/YY)

**Task 1**

**Y**ou are tasked with developing a basic e-commerce home page for an Android application. The home page should have an options menu that provides navigation and settings options. Additionally, each product item on the home page should have a popup menu with actions like "Add to Cart" and "Add to Wishlist.“

1. Home Page Layout: The home page should display a list of products.
2. Options Menu: The options menu should include "Home", "Profile", and "Settings".
3. Popup Menu: Each product item should have a button that shows a popup menu with "Add to Cart" and "Add to Wishlist" options.

**XML code**

*<?*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="wrap\_content"  
 android:orientation="horizontal"  
 android:padding="8dp">  
  
 <ImageView  
 android:id="@+id/productImageView"  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:layout\_marginEnd="8dp" />  
  
 <TextView  
 android:id="@+id/productTextView"  
 android:layout\_width="0dp"  
 android:layout\_height="wrap\_content"  
 android:layout\_weight="1"  
 android:gravity="center\_vertical"  
 android:textSize="16sp" />  
  
 <Button  
 android:id="@+id/productButton"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:textColor="@color/white"  
 android:backgroundTint="@color/black"  
 android:text="Options" />

<ListView  
 android:id="@+id/productListView"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:layout\_below="@id/toolbar"  
 android:padding="16dp">  
 </ListView>

<item  
 android:id="@+id/menu\_home"  
 android:title="Home" />  
 <item  
 android:id="@+id/menu\_profile"  
 android:title="Profile" />  
 <item  
 android:id="@+id/menu\_settings"  
 android:title="Settings" />  
</menu>

**Java code**

package com.example.lab12;  
  
import android.os.Bundle;  
import android.view.Menu;  
import android.view.MenuInflater;  
import android.view.MenuItem;  
import android.view.View;  
import android.view.ViewGroup;  
import android.widget.BaseAdapter;  
import android.widget.Button;  
import android.widget.ImageView;  
import android.widget.ListView;  
import android.widget.PopupMenu;  
import android.widget.TextView;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.widget.Toolbar;  
  
import com.google.android.material.floatingactionbutton.FloatingActionButton;  
  
import java.util.ArrayList;  
import java.util.List;  
  
public class MainActivity extends AppCompatActivity {  
  
 private ListView productListView;  
 private List<Product> productList;  
   
 return true;  
 }  
  
 @Override  
  
 if (itemId == R.id.*menu\_add\_to\_cart*) {  
 Toast.*makeText*(this, "Added to cart", Toast.*LENGTH\_SHORT*).show();  
 return true;  
 } else if (itemId == R.id.*menu\_add\_to\_wishlist*) {  
 Toast.*makeText*(this, "Added to wishlist", Toast.*LENGTH\_SHORT*).show();  
 return true;  
 }  
 return false;  
 });  
 popupMenu.show();  
 }  
  
 *// Custom adapter for the ListView* private class ProductAdapter extends BaseAdapter {  
  
 private List<Product> products;  
  
 public ProductAdapter(List<Product> products) {  
 this.products = products;  
 }  
  
 @Override  
 public int getCount() {  
 return products.size();  
 }  
  
 @Override  
 public Object getItem(int position) {  
 return products.get(position);  
 }  
  
  
  
 *// Product class* public class Product {  
 private String name;  
 private int imageResource;  
  
 public Product(String name, int imageResource) {  
 this.name = name;  
 this.imageResource = imageResource;  
 }  
  
 public String getName() {  
 return name;  
 }  
  
 public int getImageResource() {  
 return imageResource;  
 }  
 }  
}

