Exp 12 Date:

ONLINE SHOPPING

Aim

To create an Online shopping application using Android.

Algorithm

Step 1. Create the layouts for the app.

Step 2. Create the Product Class

Step 3. Create the ShoppingCartHelper class

Step 4. Create the Item Layout

Step 5. Create the ProductAdapter class

Step 6. Create the CatalogActivity

Step 7. Create the ProductDetails Activity

Step 8. Finally, create the ShoppingCart Activity

Program catalog.xml:

<?xml version="1.0" encoding="utf-8"?> <LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre> android:orientation="vertical" android:layout width="fill parent" android:layout height="fill parent" android:background="#ffffff"> <TextView android:id="@+id/TextView01" android:layout width="wrap content" android:layout height="wrap content" android:textColor="#000000" android:textSize="24dip" android:layout margin="5dip" android:text="Product Catalog"></TextView> <ListView android:layout height="wrap content"</pre> android:layout weight="1" android:id="@+id/ListViewCatalog" android:layout width="fill parent" android:background="#ffffff" android:clickable="true" android:cacheColorHint="#ffffff"> </ListView> <Button android:layout width="wrap content" android:layout height="wrap content" android:layout margin="5dip" android:layout gravity="right" android:id="@+id/ButtonViewCart" android:text="View Shopping Cart"></Button> </LinearLayout>

productdetails.xml:

<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
android:layout_height="fill_parent" android:layout_width="fill_parent"
android:background="#ffffff" android:orientation="vertical">
<LinearLayout android:layout_width="wrap_content"
android:layout_height="wrap_content" android:id="@+id/LinearLayoutHeader"
android:orientation="horizontal">
<ImageView android:layout_width="wrap_content"
android:layout_height="wrap_content" android:id="@+id/ImageViewProduct"
android:adjustViewBounds="true" android:scaleType="fitXY"</pre>

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android:src="@drawable/deadoralive"
android:layout margin="5dip"></ImageView>
<TextView android:layout width="wrap content"
android:layout height="wrap content" android:id="@+id/TextViewProductTitle"
android:layout gravity="center" android:layout margin="5dip"
android:textSize="26dip" android:text="Dead or Alive"
android:textColor="#000000"></TextView>
</LinearLayout>
<TextView android:layout height="wrap content"
android:id="@+id/TextViewProductDetails"
android:layout width="fill parent" android:layout margin="5dip"
android:layout_weight="1" android:textColor="#000000" android:text="Product
description"></TextView>
<Button android:layout width="wrap content"
android:layout height="wrap content" android:layout margin="5dip"
android:layout gravity="right" android:id="@+id/ButtonAddToCart"
android:text="Add to Cart"></Button>
</LinearLayout>
shoppingcart.xml:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:orientation="vertical" android:layout height="fill parent"
android:layout width="fill parent" android:background="#ffffff">
<TextView android:id="@+id/TextView01" android:layout width="wrap content"
android:layout height="wrap content" android:textColor="#000000"
android:textSize="24dip" android:layout margin="5dip" android:text="Shopping
Cart"></TextView>
<ListView android:layout height="wrap content"</pre>
android:layout_weight="1" android:id="@+id/ListViewCatalog"
android:layout width="fill parent" android:background="#ffffff"
android:cacheColorHint="#ffffff" android:clickable="true"
android:choiceMode="multipleChoice">
</ListView>
<LinearLayout android:id="@+id/LinearLayout01"</pre>
android:layout width="wrap content" android:layout height="wrap content"
android:orientation="horizontal" android:layout gravity="right"
android:layout margin="5dip">
<Button android:layout width="wrap content"
android:layout height="wrap content" android:id="@+id/ButtonRemoveFromCart"
android:text="Remove from Cart"></Button>
<Button android:id="@+id/Button02" android:layout width="wrap content"
android:layout_height="wrap_content" android:text="Proceed to
Checkout"></Button>
</LinearLayout>
</LinearLayout>
```

```
Mainactivity.java:
package com.dreamdom.tutorials.shoppingcart;
import android.graphics.drawable.Drawable;
public class Product {
public String title:
public Drawable productImage;
public String description;
public double price;
public boolean selected;
public Product(String title, Drawable productImage, String description,
double price) {
this.title = title;
this.productImage = productImage;
this.description = description;
this.price = price;
}
}
ShoppingCartHelper.java:
package com.dreamdom.tutorials.shoppingcart;
import java.util.List;
import java.util.Vector;
import android.content.res.Resources;
public class ShoppingCartHelper {
public static final String PRODUCT INDEX = "PRODUCT INDEX";
private static List<Product> catalog;
private static List<Product> cart;
public static List<Product> getCatalog(Resources res){
if(catalog == null) {
catalog = new Vector<Product>();
catalog.add(new Product("Dead or Alive", res
.getDrawable(R.drawable.deadoralive),
"Dead or Alive by Tom Clancy with Grant Blackwood", 29.99));
catalog.add(new Product("Switch", res
.getDrawable(R.drawable.switchbook),
"Switch by Chip Heath and Dan Heath", 24.99));
catalog.add(new Product("Watchmen", res
.getDrawable(R.drawable.watchmen),
"Watchmen by Alan Moore and Dave Gibbons", 14.99));
return catalog;
public static List<Product> getCart() {
if(cart == null) {
cart = new Vector<Product>();
return cart;
```

```
}
item.xml:
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
android:layout height="wrap content" android:orientation="horizontal"
android:layout_width="fill_parent" android:id="@+id/LinearLayoutItem">
<ImageView android:layout margin="5dip" android:id="@+id/ImageViewItem"</pre>
android:layout height="wrap content"
android:layout width="100dip"></lmageView>
<TextView android:layout width="wrap content"
android:layout height="wrap content" android:layout gravity="center"
android:layout margin="5dip" android:id="@+id/TextViewItem"
android:textSize="26dip" android:text="Book Title" android:textColor="#000000"
android:minLines="2" android:maxWidth="150dip"></TextView>
<TextView android:id="@+id/TextView01" android:layout width="wrap content"
android:layout height="wrap content" android:layout weight="1"></TextView>
<CheckBox android:layout_height="wrap_content"</pre>
android:layout margin="5dip" android:id="@+id/CheckBoxSelected"
android:focusable="false" android:clickable="false"
android:layout gravity="center"
android:layout_width="wrap content"></CheckBox>
</LinearLayout>
ProductAdapter.java:
package com.dreamdom.tutorials.shoppingcart;
import java.util.List;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.BaseAdapter;
import android.widget.CheckBox;
import android.widget.ImageView;
import android.widget.TextView;
public class ProductAdapter extends BaseAdapter {
private List<Product> mProductList;
private LayoutInflater mInflater;
private boolean mShowCheckbox:
public ProductAdapter(List<Product> list, LayoutInflater inflater, boolean
showCheckbox) {
mProductList = list:
mInflater = inflater;
mShowCheckbox = showCheckbox;
@Override
public int getCount() {
return mProductList.size();
}
@Override
public Object getItem(int position) {
```

```
return mProductList.get(position);
}
@Override
public long getItemId(int position) {
return position;
}
@Override
public View getView(int position, View convertView, ViewGroup parent) {
final ViewItem item:
if (convertView == null) {
convertView = mInflater.inflate(R.layout.item,
null);
item = new ViewItem();
item.productImageView = (ImageView) convertView
.findViewById(R.id.ImageViewItem);
item.productTitle = (TextView) convertView.findViewById(R.id.TextViewItem);
item.productCheckbox = (CheckBox)
convertView.findViewById(R.id.CheckBoxSelected);
convertView.setTag(item);
} else {
item = (ViewItem) convertView.getTag();
Product curProduct = mProductList.get(position);
item.productImageView.setImageDrawable(curProduct.productImage);
item.productTitle.setText(curProduct.title);
if(!mShowCheckbox) {
item.productCheckbox.setVisibility(View.GONE);
} else {
if(curProduct.selected == true)
item.productCheckbox.setChecked(true);
item.productCheckbox.setChecked(false);
}
return convertView;
private class ViewItem {
ImageView productImageView;
TextView productTitle;
CheckBox productCheckbox;
}
```







