Advanced Software Engineering Jagadish Tirumalasetty(#39)

Challenge #1 Surya Botcha (#09)

Source Code:

1. Home Page

**package** com.example.grocerypedia;

**import** android.support.v7.app.ActionBarActivity;

**import** android.support.v7.app.ActionBar;

**import** android.support.v4.app.Fragment;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.view.LayoutInflater;

**import** android.view.Menu;

**import** android.view.MenuItem;

**import** android.view.View;

**import** android.view.ViewGroup;

**import** android.widget.Button;

**import** android.os.Build;

**public** **class** HomePageActivity **extends** ActionBarActivity {

Button ItemsList;

Button storeFinder;

Button Scan;

@Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_home\_page*);

ItemsList = (Button) findViewById(R.id.*ItemsList*);

storeFinder = (Button) findViewById(R.id.*LocateStores*);

Scan = (Button) findViewById(R.id.*ScanItem*);

ItemsList.setOnClickListener(**new** View.OnClickListener() {

@Override

**public** **void** onClick(View v) {

// **TODO** Auto-generated method stub

Intent i = **new** Intent(HomePageActivity.**this**, ItemsList.**class**);

startActivity(i);

}

});

storeFinder.setOnClickListener(**new** View.OnClickListener() {

@Override

**public** **void** onClick(View v) {

// **TODO** Auto-generated method stub

Intent i = **new** Intent(HomePageActivity.**this**, StoreLocator.**class**);

startActivity(i);

}

});

**if** (savedInstanceState == **null**) {

getSupportFragmentManager().beginTransaction()

.add(R.id.*container*, **new** PlaceholderFragment()).commit();

}

}

@Override

**public** **boolean** onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.*home\_page*, menu);

**return** **true**;

}

@Override

**public** **boolean** onOptionsItemSelected(MenuItem item) {

// Handle action bar item clicks here. The action bar will

// automatically handle clicks on the Home/Up button, so long

// as you specify a parent activity in AndroidManifest.xml.

**int** id = item.getItemId();

**if** (id == R.id.*action\_settings*) {

**return** **true**;

}

**return** **super**.onOptionsItemSelected(item);

}

/\*\*

\* A placeholder fragment containing a simple view.

\*/

**public** **static** **class** PlaceholderFragment **extends** Fragment {

**public** PlaceholderFragment() {

}

@Override

**public** View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

View rootView = inflater.inflate(R.layout.*fragment\_home\_page*,

container, **false**);

**return** rootView;

}

}

}

1. BarCode Reader:

package com.dynamsoft.barcodereader;

import android.app.Activity;

import android.os.Bundle;

import android.view.Display;

import android.widget.FrameLayout;

public class BarcodeReader extends Activity {

private CameraPreview mPreview;

private CameraManager mCameraManager;

private HoverView mHoverView;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.main);

Display display = getWindowManager().getDefaultDisplay();

mHoverView = (HoverView)findViewById(R.id.hover\_view);

mHoverView.update(display.getWidth(), display.getHeight());

mCameraManager = new CameraManager(this);

mPreview = new CameraPreview(this, mCameraManager.getCamera());

mPreview.setArea(mHoverView.getHoverLeft(), mHoverView.getHoverTop(), mHoverView.getHoverAreaWidth(), display.getWidth());

FrameLayout preview = (FrameLayout) findViewById(R.id.camera\_preview);

preview.addView(mPreview);

getActionBar().hide();

}

@Override

protected void onPause() {

super.onPause();

mPreview.onPause();

mCameraManager.onPause();

}

@Override

protected void onResume() {

// TODO Auto-generated method stub

super.onResume();

mCameraManager.onResume();

mPreview.setCamera(mCameraManager.getCamera());

}

}

Reference : <https://github.com/DynamsoftRD/Android-Barcode-Reader>

1. Items Data Contract

package com.example.grocerypedia;

import java.io.InputStream;

import java.net.HttpURLConnection;

import java.net.URL;

import java.util.ArrayList;

import org.xmlpull.v1.XmlPullParser;

import org.xmlpull.v1.XmlPullParserFactory;

public class ItemsDataContract {

public String ItemName;

public String urlString;

private ArrayList<StoreAndLocation> list;

private XmlPullParserFactory xmlFactoryObject;

public volatile boolean isParsed = true;

public ArrayList<StoreAndLocation> getList() {

return list;

}

public void getXML(){

Thread thread = new Thread(new Runnable(){

@Override

public void run() {

try {

URL url = new URL(urlString);

HttpURLConnection conn = (HttpURLConnection)

url.openConnection();

conn.setReadTimeout(10000);

conn.setConnectTimeout(15000); conn.setRequestMethod("GET");

conn.setDoInput(true);

conn.connect();

InputStream stream = conn.getInputStream();

xmlFactoryObject = XmlPullParserFactory.newInstance();

XmlPullParser myparser = xmlFactoryObject.newPullParser();

myparser.setFeature(XmlPullParser.FEATURE\_PROCESS\_NAMESPACES

, false);

myparser.setInput(stream, null);

parseXMLAndStoreIt(myparser);

stream.close();

} catch (Exception e) {

e.printStackTrace();

}

}

});

thread.start();

}

public void parseXMLAndStoreIt(XmlPullParser myParser) {

StoreAndLocation store = null;

int event;

try {

event = myParser.getEventType();

while (event != XmlPullParser.END\_DOCUMENT) {

String name=myParser.getName();

switch (event){

case XmlPullParser.START\_DOCUMENT:

list= new ArrayList<StoreAndLocation>();

case XmlPullParser.START\_TAG:

name= myParser.getName();

if(name == "Store"){

store = new StoreAndLocation();

}else if(store != null){

if(name == "string"){

store.Name = myParser.nextText();

}

}

case XmlPullParser.END\_TAG:

name = myParser.getName();

if(name.equalsIgnoreCase("Store") && store != null){

list.add(store);

}

}

event = myParser.next();

}

isParsed = false;

} catch (Exception e) {

e.printStackTrace();

}

}

class StoreAndLocation {

String Name;

}

}

ItemsList

**package** com.example.grocerypedia;

**import** java.util.ArrayList;

**import** android.support.v7.app.ActionBarActivity;

**import** android.support.v7.app.ActionBar;

**import** android.support.v4.app.Fragment;

**import** android.content.Intent;

**import** android.os.Bundle;

**import** android.view.LayoutInflater;

**import** android.view.Menu;

**import** android.view.MenuItem;

**import** android.view.View;

**import** android.view.ViewGroup;

**import** android.widget.Button;

**import** android.widget.LinearLayout;

**import** android.os.Build;

**import** com.example.grocerypedia.R;

**import** com.example.grocerypedia.ParseXML;

**import** com.example.grocerypedia.ItemsDataContract;

**import** com.example.grocerypedia.ItemsDataContract.StoreAndLocation;

**public** **class** ItemsList **extends** ActionBarActivity {

**private** String url1 = "http://www.supermarketapi.com/api.asmx/COMMERCIAL\_GetGroceries?APIKEY=02a9670245&SearchText=";

**public** ItemsDataContract obj;

ArrayList<StoreAndLocation> list;

LinearLayout linear;

Button search;

@Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_items\_list*);

search = (Button) findViewById(R.id.*searchbutton*);

search.setOnClickListener(**new** View.OnClickListener() {

@Override

**public** **void** onClick(View v) {

// **TODO** Auto-generated method stub

}

});

**if** (savedInstanceState == **null**) {

getSupportFragmentManager().beginTransaction()

.add(R.id.*container*, **new** PlaceholderFragment()).commit();

}

}

@Override

**public** **boolean** onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.*items\_list*, menu);

**return** **true**;

}

@Override

**public** **boolean** onOptionsItemSelected(MenuItem item) {

// Handle action bar item clicks here. The action bar will

// automatically handle clicks on the Home/Up button, so long

// as you specify a parent activity in AndroidManifest.xml.

**int** id = item.getItemId();

**if** (id == R.id.*action\_settings*) {

**return** **true**;

}

**return** **super**.onOptionsItemSelected(item);

}

/\*\*

\* A placeholder fragment containing a simple view.

\*/

**public** **static** **class** PlaceholderFragment **extends** Fragment {

**public** PlaceholderFragment() {

}

@Override

**public** View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

View rootView = inflater.inflate(R.layout.*fragment\_items\_list*,

container, **false**);

**return** rootView;

}

}

}

Store Locator

package com.example.grocerypedia;

import android.support.v7.app.ActionBarActivity;

import android.support.v7.app.ActionBar;

import android.support.v4.app.Fragment;

import android.os.Bundle;

import android.view.LayoutInflater;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.view.ViewGroup;

import android.os.Build;

public class StoreLocator extends ActionBarActivity {

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_store\_locator);

if (savedInstanceState == null) {

getSupportFragmentManager().beginTransaction()

.add(R.id.container, new PlaceholderFragment()).commit();

}

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

// Inflate the menu; this adds items to the action bar if it is present.

getMenuInflater().inflate(R.menu.store\_locator, menu);

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item) {

// Handle action bar item clicks here. The action bar will

// automatically handle clicks on the Home/Up button, so long

// as you specify a parent activity in AndroidManifest.xml.

int id = item.getItemId();

if (id == R.id.action\_settings) {

return true;

}

return super.onOptionsItemSelected(item);

}

/\*\*

\* A placeholder fragment containing a simple view.

\*/

public static class PlaceholderFragment extends Fragment {

public PlaceholderFragment() {

}

@Override

public View onCreateView(LayoutInflater inflater, ViewGroup container,

Bundle savedInstanceState) {

View rootView = inflater.inflate(R.layout.fragment\_store\_locator,

container, false);

return rootView;

}

}

}