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Android Sensor Programming

Homework #13

**AndroidManifest.xml**

<?xml version="1.0" encoding="utf-8"?>

<manifest xmlns:android="http://schemas.android.com/apk/res/android"

package="com.example.homework13">

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<activity android:name=".MainActivity">

<intent-filter>

<action android:name="android.intent.action.MAIN" />

<category android:name="android.intent.category.LAUNCHER" />

</intent-filter>

</activity>

</application>

</manifest>

**Activity\_main.xml**

<?xml version="1.0" encoding="utf-8"?>

<LinearLayout 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"

android:orientation="vertical">

<RelativeLayout

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:orientation="horizontal">

<EditText

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/editText"

android:layout\_alignParentTop="true"

android:layout\_alignParentLeft="true"/>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:text="Submit"

android:id="@+id/submit\_area"

android:layout\_alignParentRight="true"

android:layout\_alignParentTop="true"

android:onClick="Submit"/>

</RelativeLayout>

<Button

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/bookmark"

android:text="Bookmark"

android:onClick="BookMark"/>

<WebView

android:layout\_width="wrap\_content"

android:layout\_height="wrap\_content"

android:id="@+id/webView"/>

</LinearLayout>

**MainActivity.java**

package com.example.homework13;

import androidx.appcompat.app.AppCompatActivity;

import android.content.Context;

import android.os.Bundle;

import android.view.ContextMenu;

import android.view.Menu;

import android.view.MenuItem;

import android.view.View;

import android.view.inputmethod.InputMethodManager;

import android.webkit.WebSettings;

import android.webkit.WebView;

import android.webkit.WebViewClient;

import android.widget.Button;

import android.widget.EditText;

import android.widget.Toast;

public class MainActivity extends AppCompatActivity {

private static Context context;

Menu menuFinal = null;

WebView webView = null;

EditText editText;

@Override

protected void onCreate(Bundle savedInstanceState) {

super.onCreate(savedInstanceState);

setContentView(R.layout.activity\_main);

final Button buttonSubmit = findViewById(R.id.submit\_area);

webView = findViewById(R.id.webView);

editText = findViewById(R.id.editText);

buttonSubmit.setOnCreateContextMenuListener(this);

MainActivity.context=getApplicationContext();

WebSettings webSettings = webView.getSettings();

webSettings.setBuiltInZoomControls(true);

webView.setWebViewClient(new WebViewClient(){

@Override

public boolean shouldOverrideUrlLoading(WebView view, String Url)

{

return false;

}

});

}

@Override

public void onCreateContextMenu(ContextMenu menu, View view, ContextMenu.ContextMenuInfo menuInfo)

{

super.onCreateContextMenu(menu, view, menuInfo);

menuFinal = menu;

}

@Override

public boolean onCreateOptionsMenu(Menu menu) {

super.onCreateOptionsMenu(menu);

menuFinal = menu;

return true;

}

@Override

public boolean onOptionsItemSelected(MenuItem item)

{

return menuChoice(item);

}

@Override

public boolean onContextItemSelected(MenuItem item)

{

return menuChoice(item);

}

private boolean menuChoice(MenuItem item) {

webView.loadUrl(item.getTitle().toString());

return false;

}

public void Submit(View view) {

String webaddress = "http://"+editText.getText().toString();

webView.loadUrl(webaddress);

InputMethodManager imm = (InputMethodManager) getSystemService(INPUT\_METHOD\_SERVICE);

imm.hideSoftInputFromWindow(getCurrentFocus().getWindowToken(), 0);

}

public void BookMark(View view) {

String webaddress = "http://"+editText.getText().toString();

menuFinal.add(0,0,0,webaddress);

editText.setText("");

InputMethodManager imm = (InputMethodManager) getSystemService(INPUT\_METHOD\_SERVICE);

imm.hideSoftInputFromWindow(getCurrentFocus().getWindowToken(), 0);

}

}

**Screenshot**

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| --- | --- |
| A screenshot of a cell phone  Description automatically generated | A screenshot of a cell phone  Description automatically generated |
| A screenshot of a cell phone  Description automatically generated | A screenshot of a cell phone  Description automatically generated |