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Android Sensor Programming
Homework #13

AndroidManifest.xml

```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
<?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"
```

```xml
        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

```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);
```

```java
        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