

ICP-10 : Developing earthquake information application for Android

Name : Maniraj vari

ID : 16321350

Email : mv3fd.umsystem.edu

GitHub Source Code :

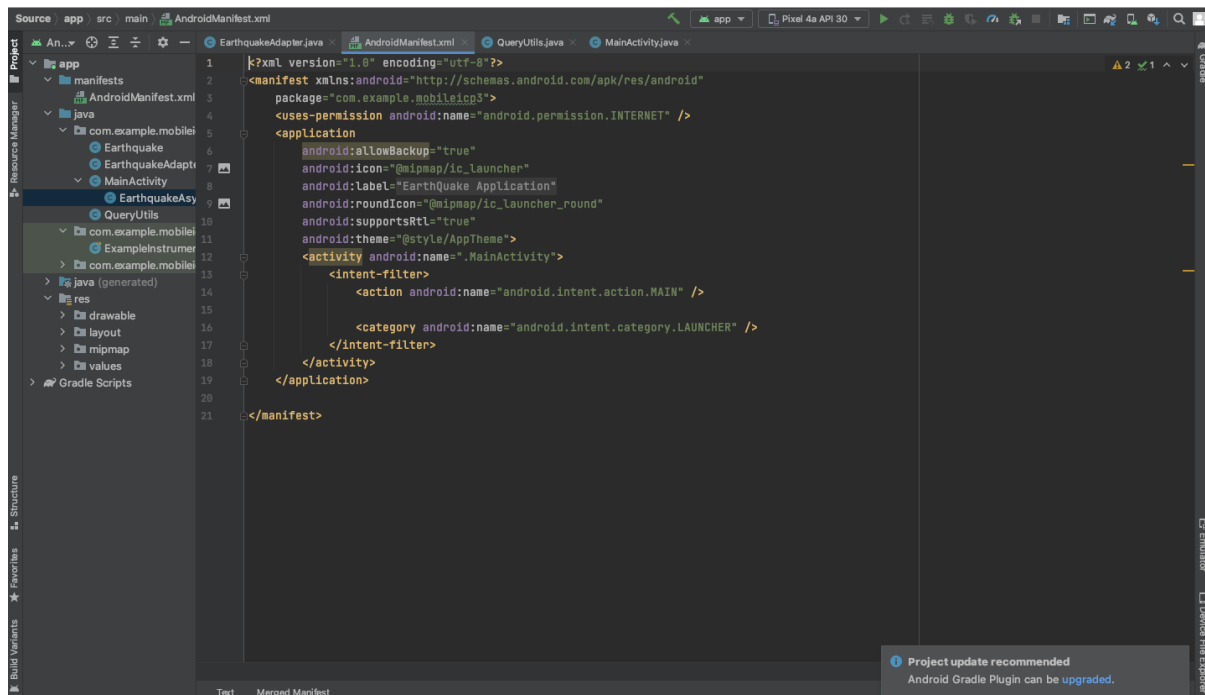
<https://github.com/UMKC-APL-WebMobileProgramming/ICP10-manivari1/tree/main/Source>

Goal of Assignment :

To list earthquakes with whole information and On clicking any item Earthquake, the user must be directed to the USGS web page, which contains further information about the selected earthquake. We need to use these QueryUtils.java, EarthquakeActivity.java and AndroidManifest.xml to files to complete the functionalities mentioned above

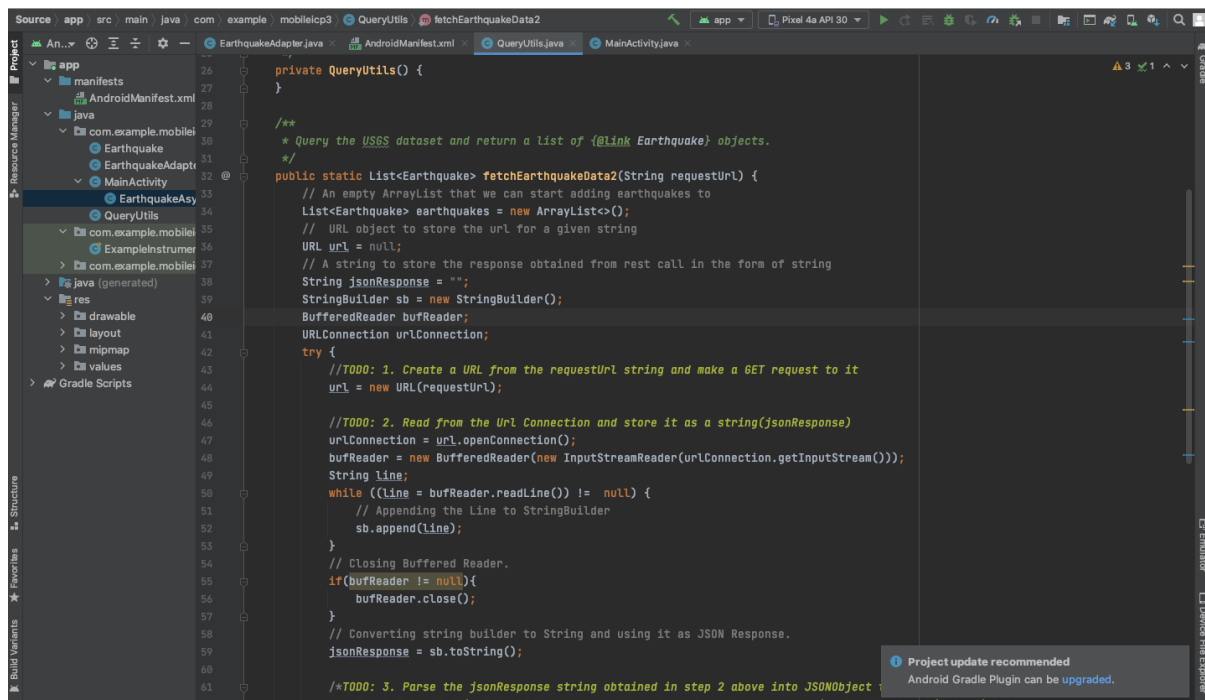
AndroidManifest.xml :

- We must add the AndroidManifest.xml file because it specifies App's Activities, services, permissions etc..
- I used **user-permission** to give access to the internet..



QueryUtils.java :

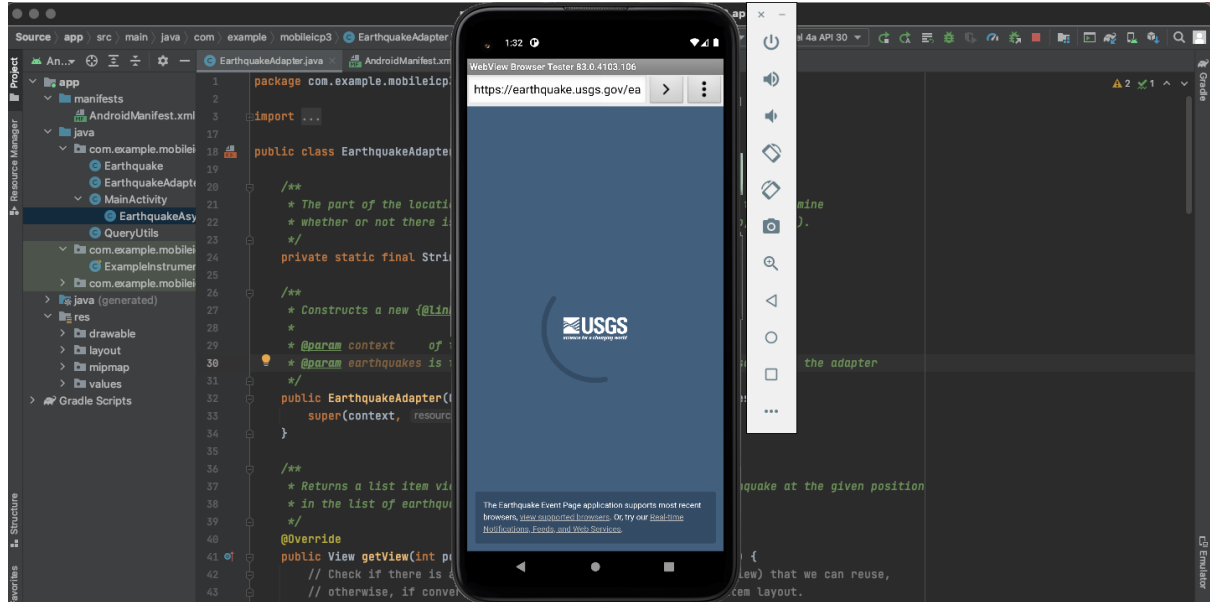
- Below is the screenshot of the QueryUtils.java file here I used **private QueryUtils()** to create a private constructor because no one should ever create a object.
- Then I used **List<Earthquake>** tag to return a list of objects from USGS data set.
- Then I have created a URL from the **requestURL** string and made a **GET** request to it by using **url = URL(requestUrl)** tag.
- Then I have stored the string by reading it.
- D I have parsed the **jsonResponse** String obtained in the above step into **JSONObject** to extract the value of “mag”, “place”, “time” for ever earthquake and created corresponding Earthquake objects with them.
- Finally I have added each earthquake object to the list and return it.



MainActivity.java :

- The below screenshot is for the MainActivity.java here in this file initially I have requested the earthquake data from the USGS dataset and the link is “<https://earthquake.usgs.gov/fdsnws/event/1/query?format=geojson&orderby=time&minmag=4&limit=10>”
- Then created an Adapter for the list of earthquakes by using **private EathquakeAdapter mAdaper** tag.
- Then I have created a new intent to view the earthquake URL and sent the intent to launch a new activity.

2. when we select any of the item or block in the above list of the earthquakes then they will directs us to the USGS page and this screenshot shows the process of loading.



3. The screenshot On clicking any item Earthquake from the above list, we are be directed to the USGS web page, which contains further information about the selected earthquake.

