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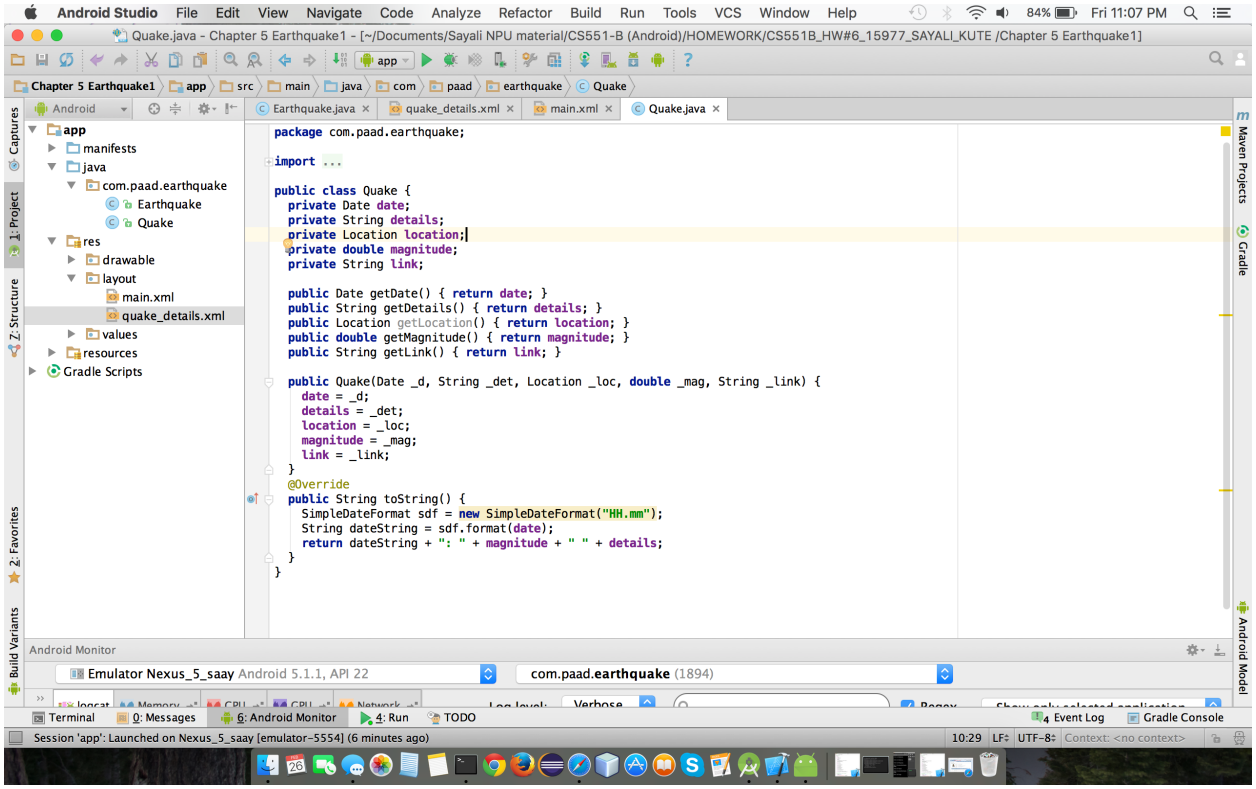
Implementation of Earthquake Viewer App on Android Studio

Create Earthquake.java class as follows:



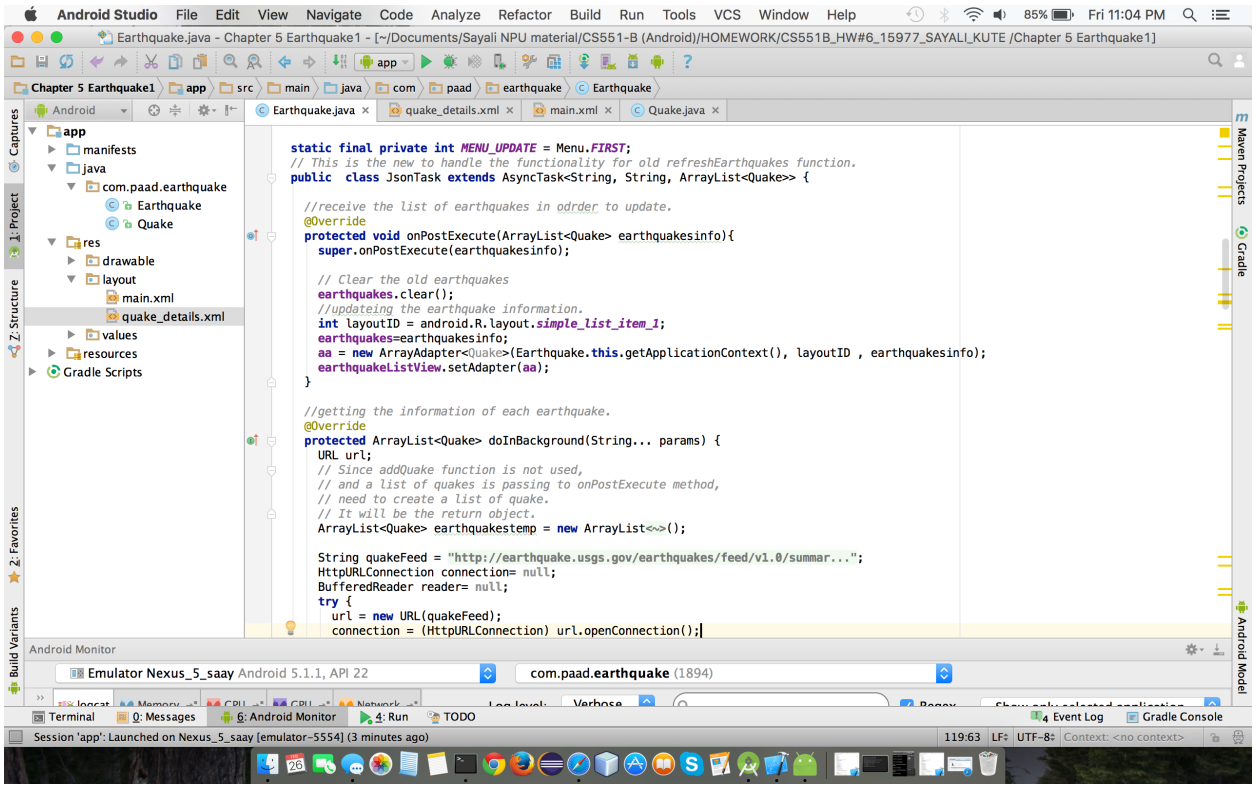
```
package com.paad.earthquake;

import ...

public class Quake {
  private Date date;
  private String details;
  private Location location;
  private double magnitude;
  private String link;

  public Date getDate() { return date; }
  public String getDetails() { return details; }
  public Location getLocation() { return location; }
  public double getMagnitude() { return magnitude; }
  public String getLink() { return link; }

  public Quake(Date _d, String _det, Location _loc, double _mag, String _link) {
    date = _d;
    details = _det;
    location = _loc;
    magnitude = _mag;
    link = _link;
  }
  @Override
  public String toString() {
    SimpleDateFormat sdf = new SimpleDateFormat("HH.mm");
    String dateString = sdf.format(date);
    return dateString + ": " + magnitude + " " + details;
  }
}
```



```
static final private int MENU_UPDATE = Menu.FIRST;
// This is the new to handle the functionality for old refreshEarthquakes function.
public  class JsonTask extends AsyncTask<String, String, ArrayList<Quake>> {

  //receive the list of earthquakes in odrder to update.
  @Override
  protected void onPostExecute(ArrayList<Quake> earthquakesinfo){
    super.onPostExecute(earthquakesinfo);

    // Clear the old earthquakes
    earthquakes.clear();
    //updateing the earthquake information.
    int layoutID = android.R.layout.simple_list_item_1;
    earthquakes=earthquakesinfo;
    aa = new ArrayAdapter<Quake>(Earthquake.this.getApplicationContext(), layoutID , earthquakesinfo);
    earthquakeListView.setAdapter(aa);
  }

  //getting the information of each earthquake.
  @Override
  protected ArrayList<Quake> doInBackground(String... params) {
    URL url;
    // Since addQuake function is not used,
    // and a list of quakes is passing to onPostExecute method,
    // need to create a list of quake.
    // It will be the return object.
    ArrayList<Quake> earthquakestemp = new ArrayList<>();

    String quakeFeed = "http://earthquake.usgs.gov/earthquakes/feed/v1.0/summar...";
    HttpURLConnection connection= null;
    BufferedReader reader= null;
    try {
      url = new URL(quakeFeed);
      connection = (HttpURLConnection) url.openConnection();
```

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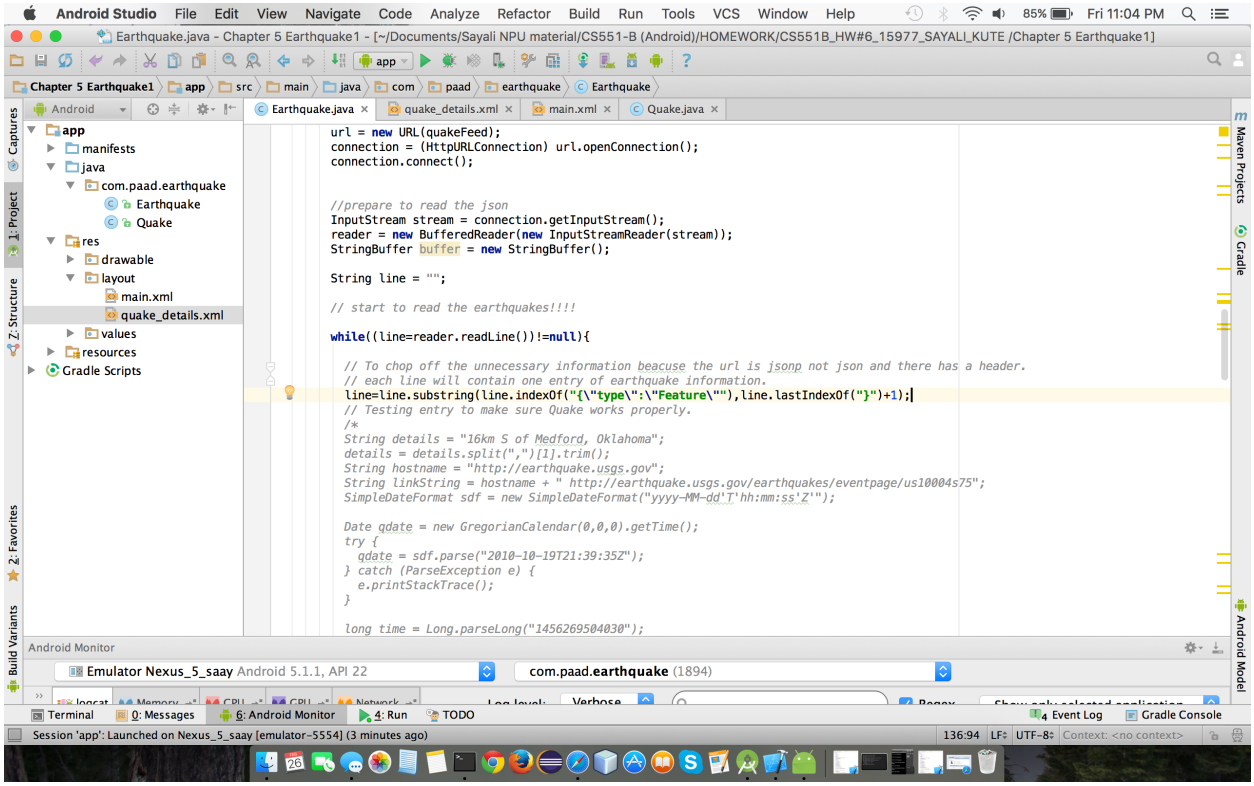

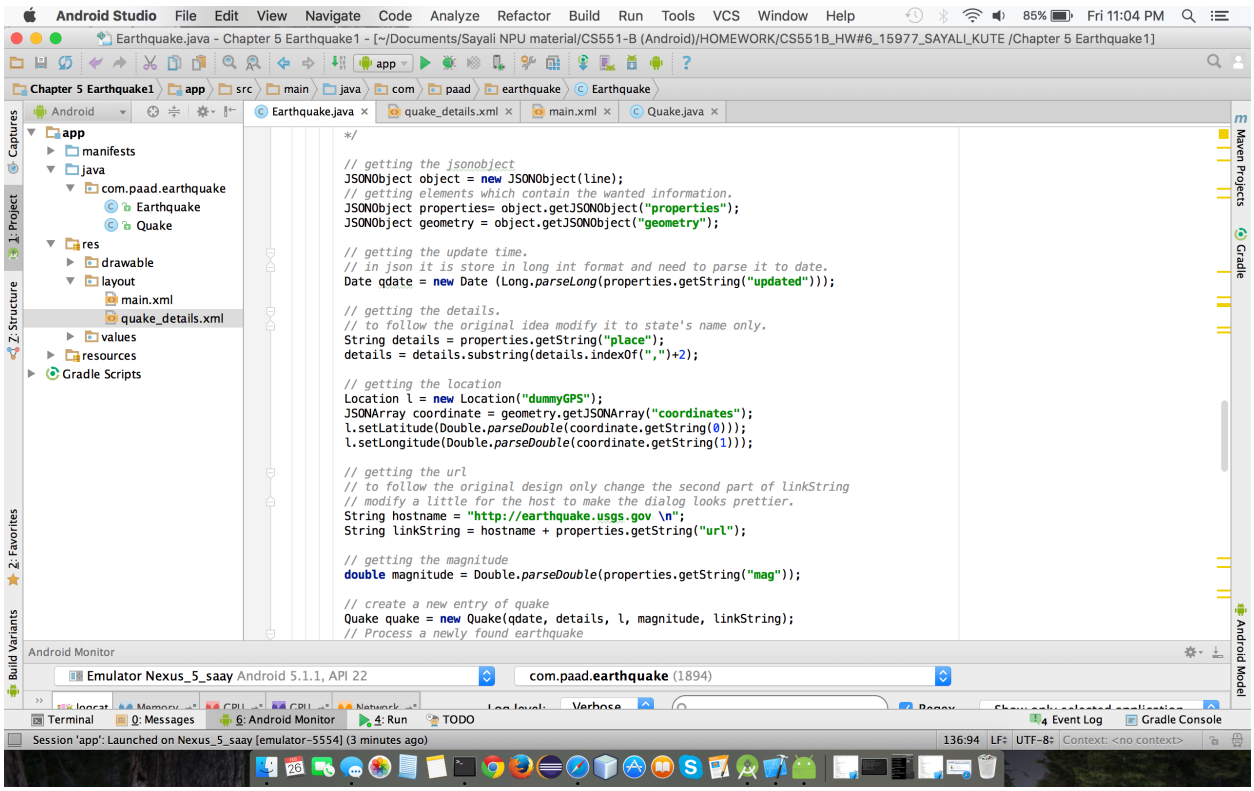

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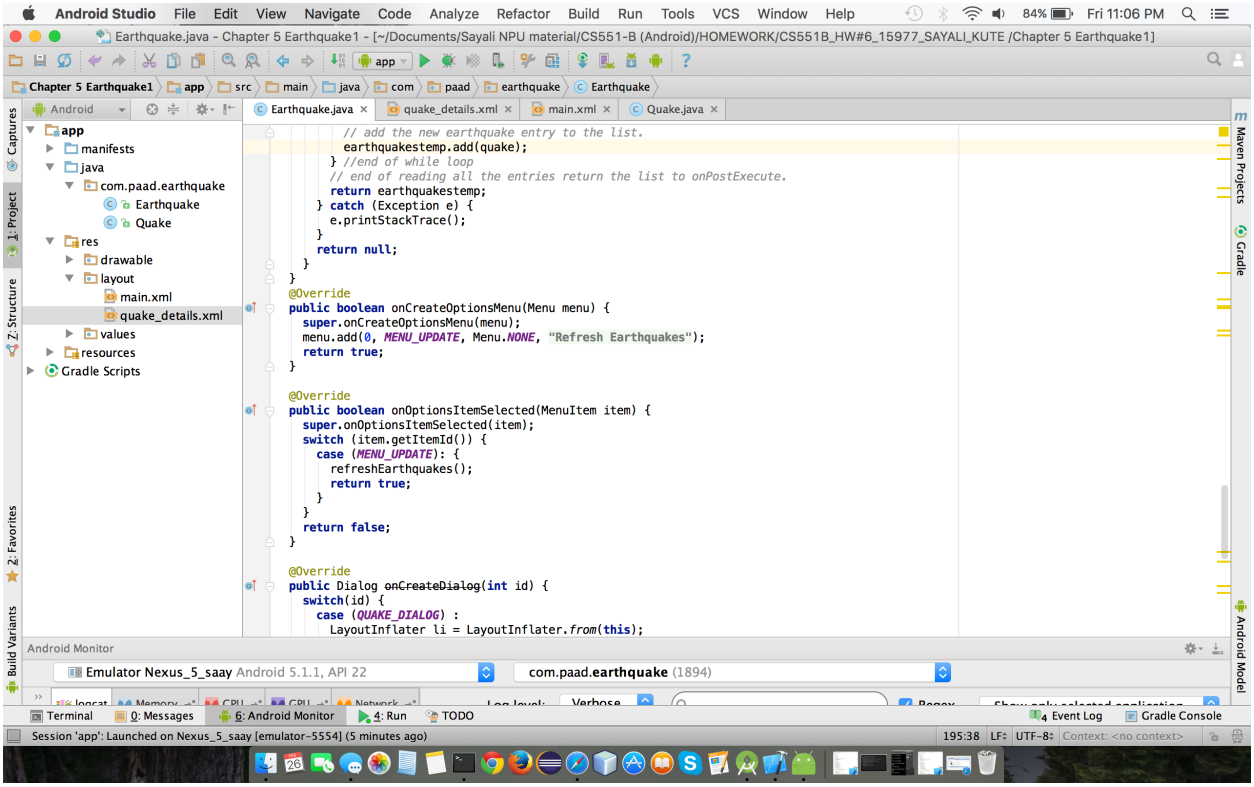

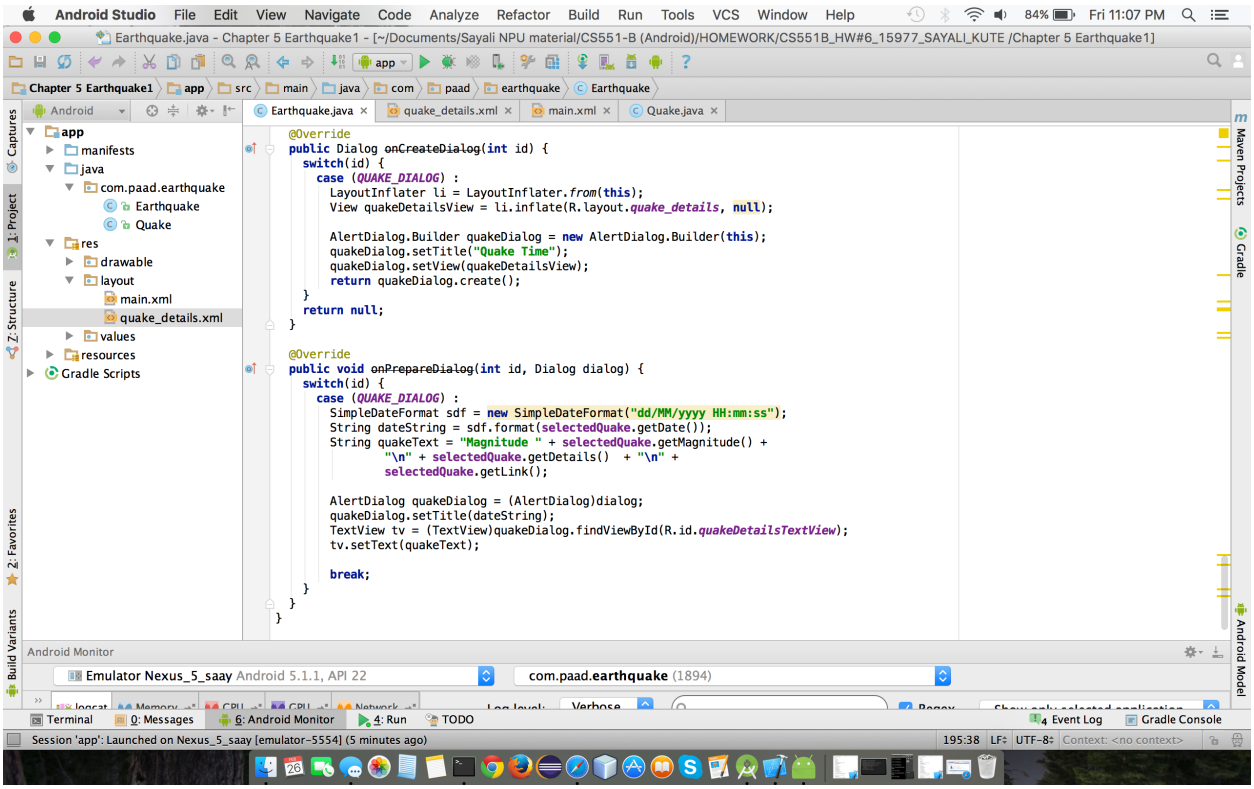

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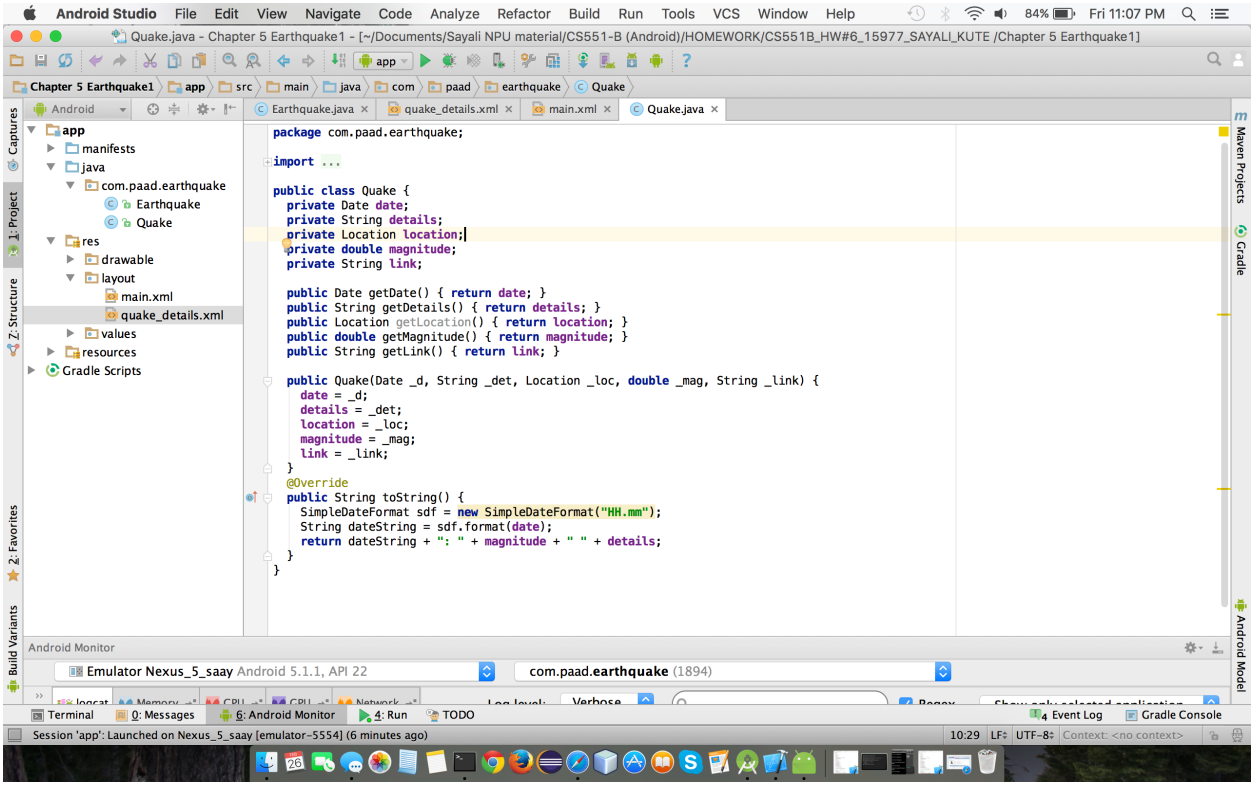
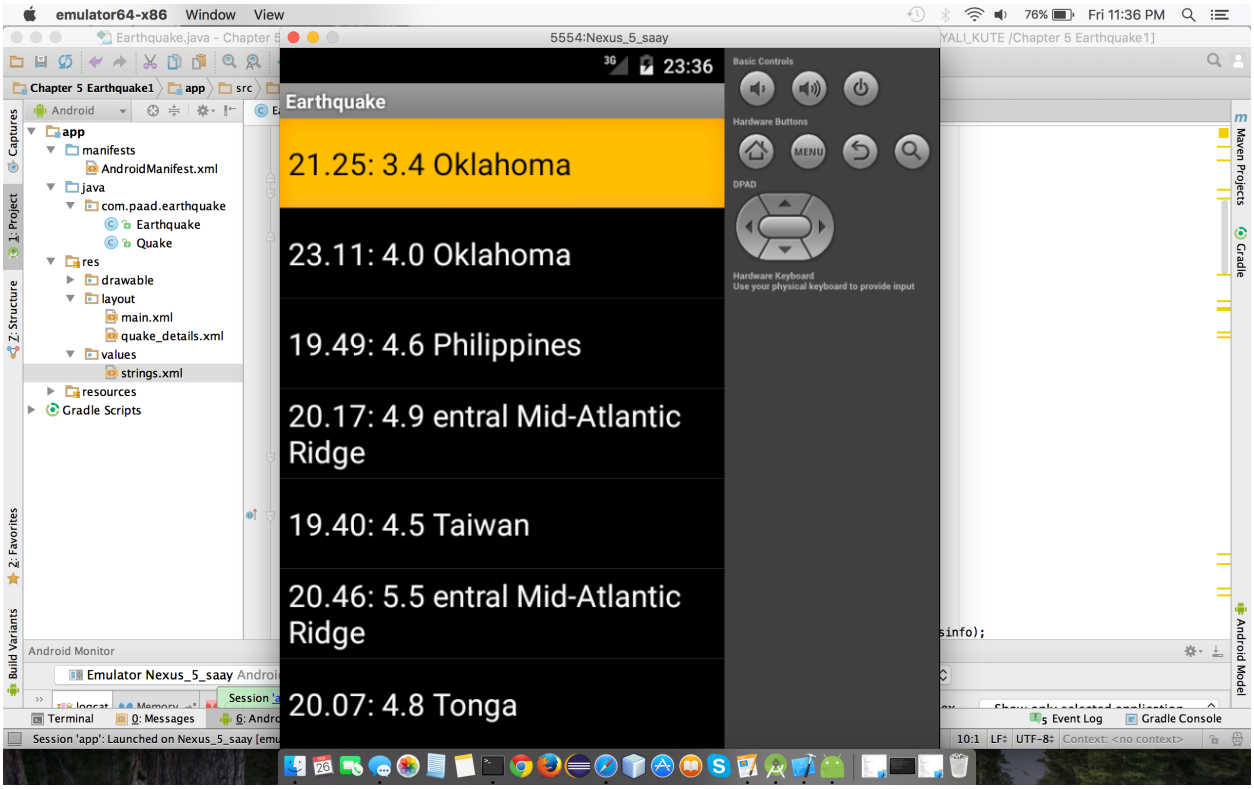
Create Quake.java class as follows:



Run the program on Android Studio Emulator:
A list of earthquakes will appear:



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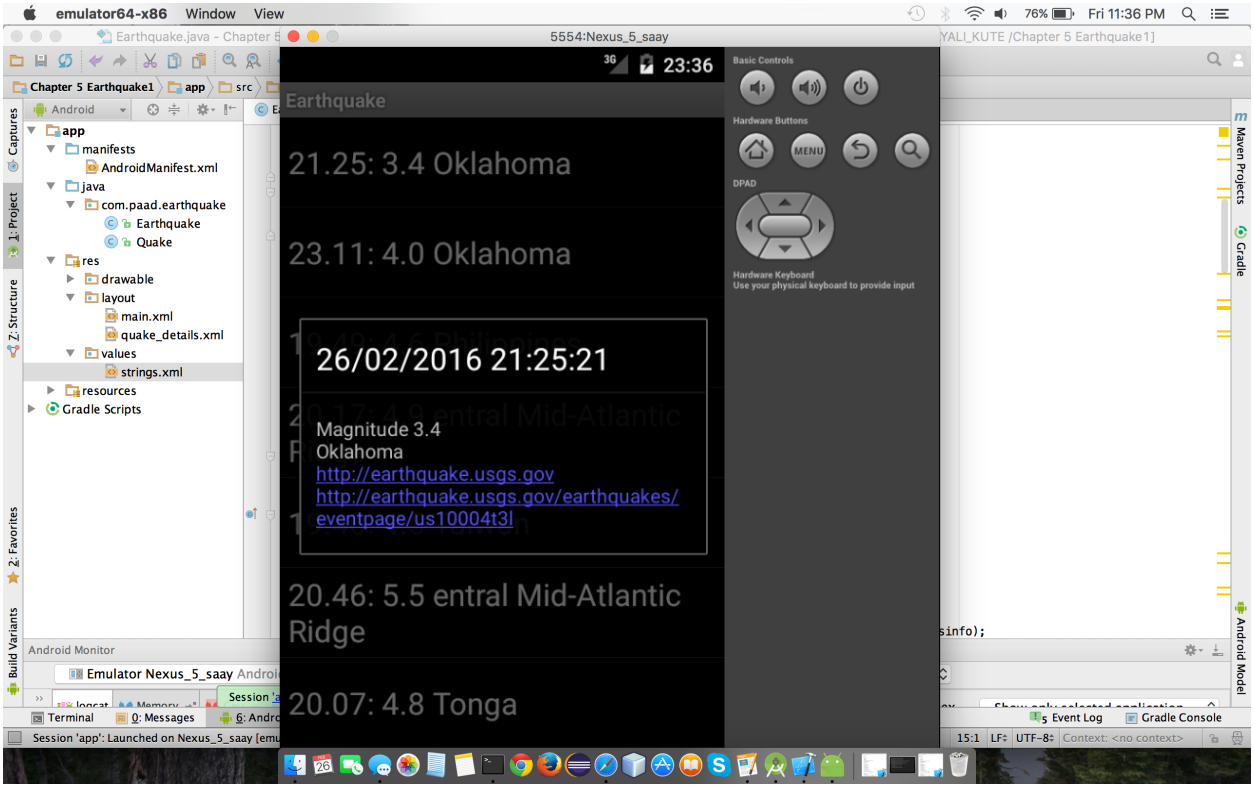
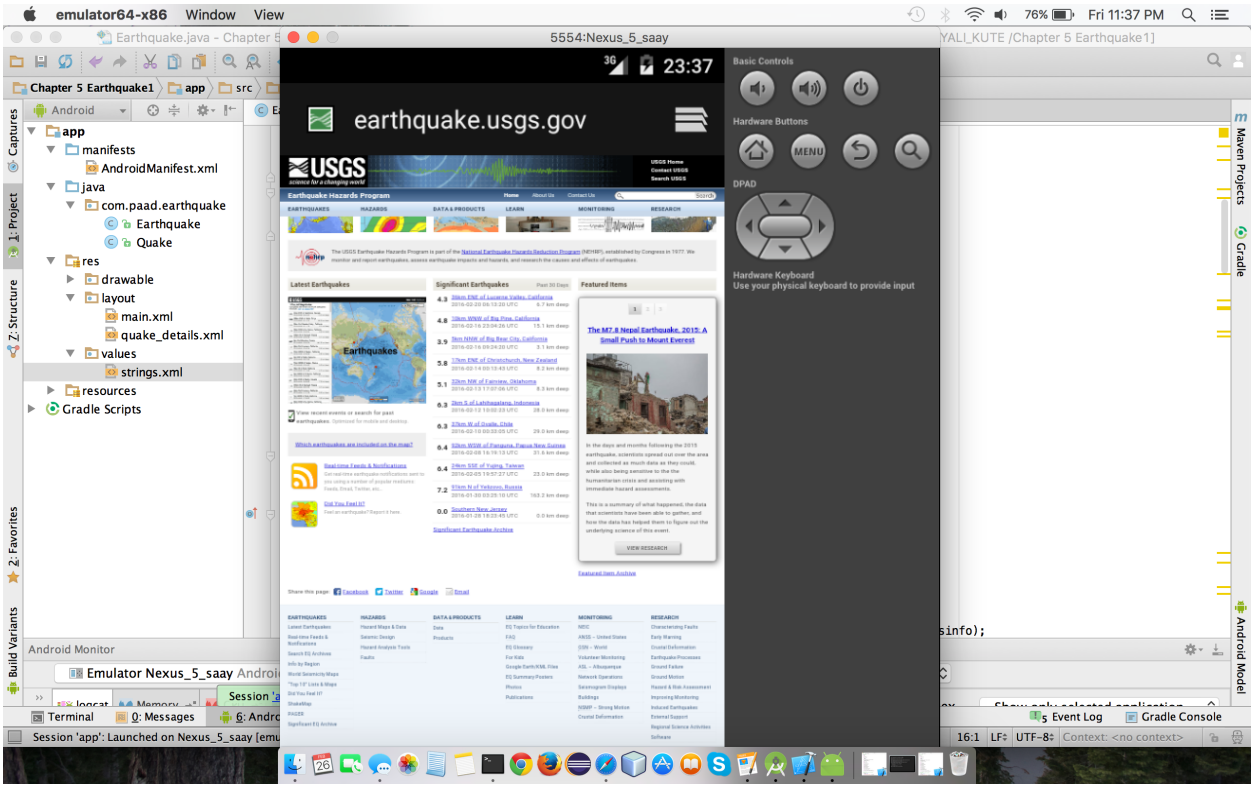
Select one of the earthquakes from the list. Details of that earthquake like date, time,location, magnitude,link will appear:



The earthquake link will take you to the earthquake.usgs.gov website:



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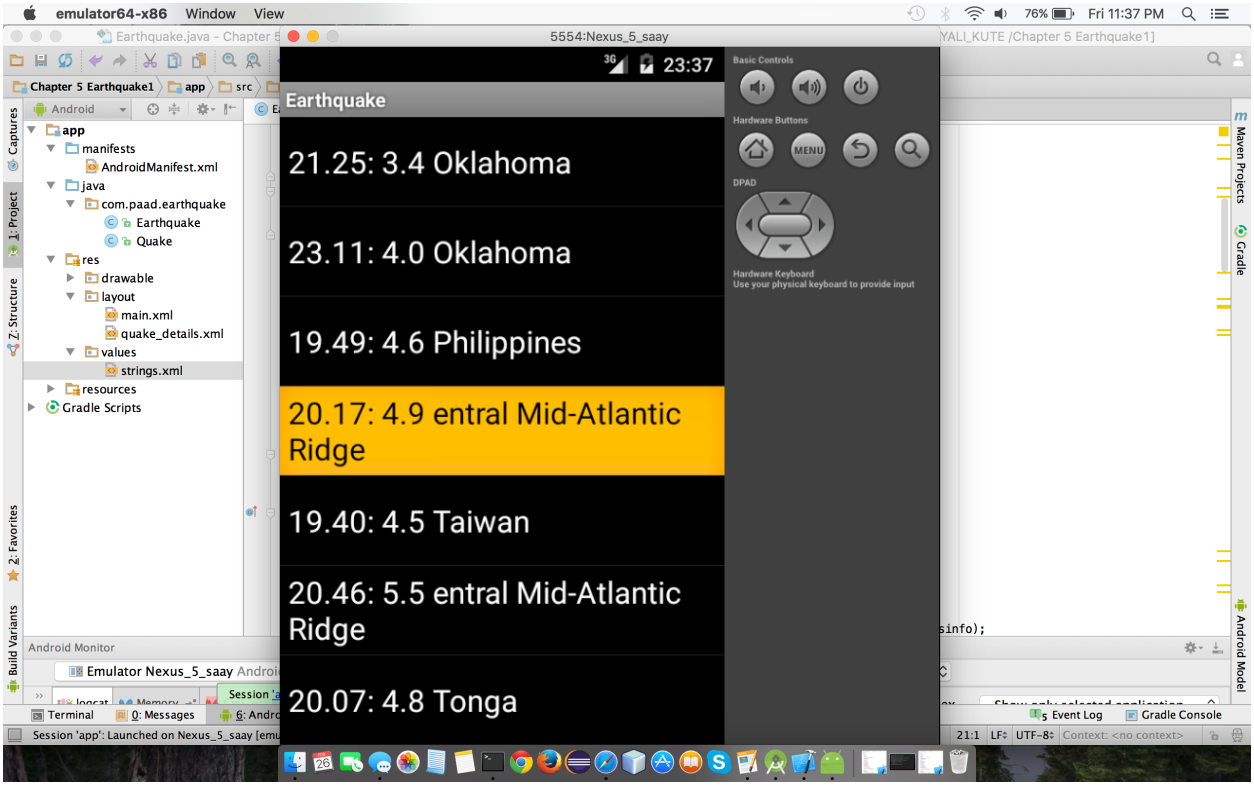
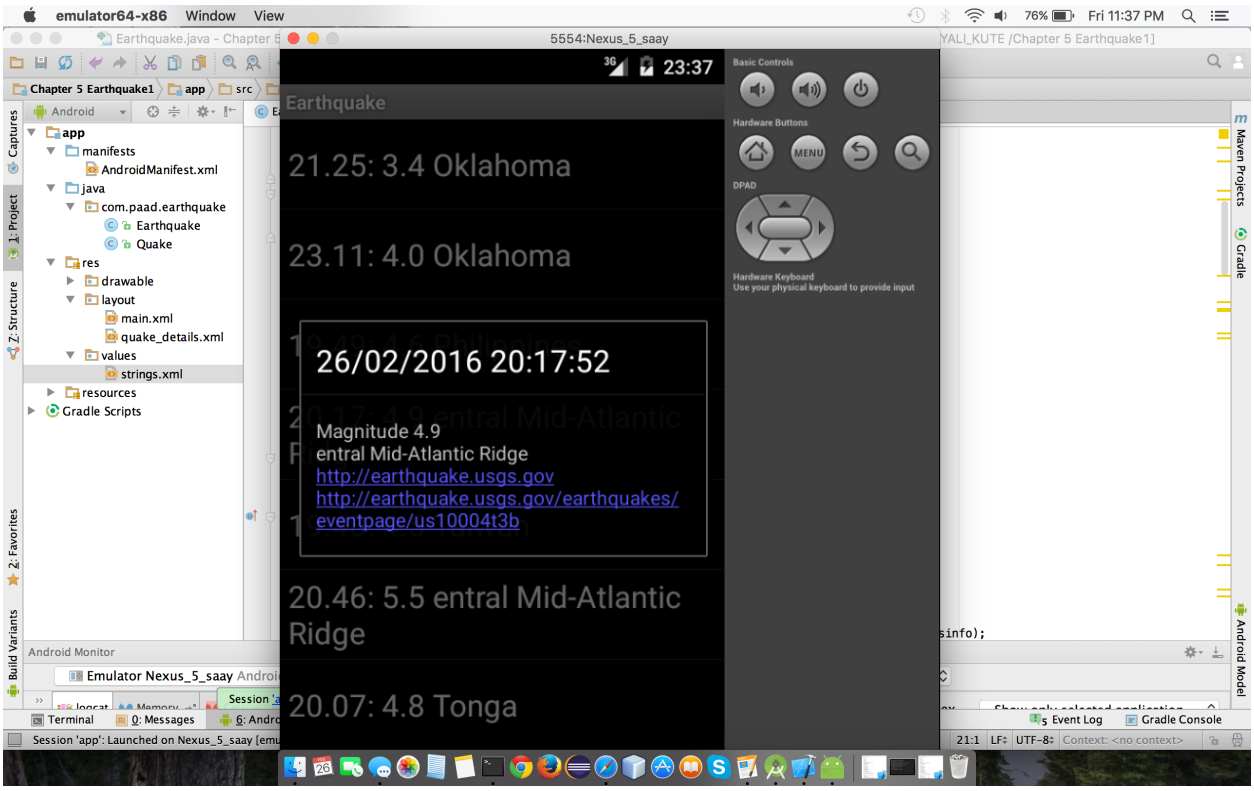
Same steps are followed for other earthquakes:





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