MY COMMUNITY RATING

Indices for the City of Philadelphia

Product Description

It's always best to have information about a community before you move there! The Community Rating program can help you, whether you are moving or just curious how your neighborhood measures up to the rest of Philadelphia. This program will provide you with details about the availability of schools, proximity of parking, volume of litter, and prominence of crime in the area surrounding your address.

Directions for Use

1. Download the following .java classes from the provided github repository and place in a default package within a Java project: https://github.com/cit-upenn/cit-591-fall-2018-project-chiencairn
    a. CommunityRatingGUI
    b. ButtonClickListener
    c. Maps
    d. GeocodeAPI
    e. GeocodeLocation
    f. GoogleAPIKey
    g. School
    h. SchoolReader
    i. SchoolAnalyzer
    j. PermitBlocks
    k. PermitBlocksAnalyzer
    l. PermitBlockReader
    m. ParserHelper
    n. Litter
    o. LitterParser
    p. Crime
    q. CrimeParser
    r. DataAnalyzer
2. Request a Google API key from the following website: https://developers.google.com/maps/documentation/geocoding/get-api-key
3. Update the key instance variable in the GoogleAPIKey class with your Google API key:

```
/**
 * Class to hold Google Maps API information and construct URL string
 * @author michellechien
 *
 */
public class GoogleAPIKey {
    final static String key = "YOUR_API_KEY_HERE";
    final static String startURL = "https://maps.googleapis.com/maps/api/geocode/
    final static String endURL = "&key=" + key;
}
```

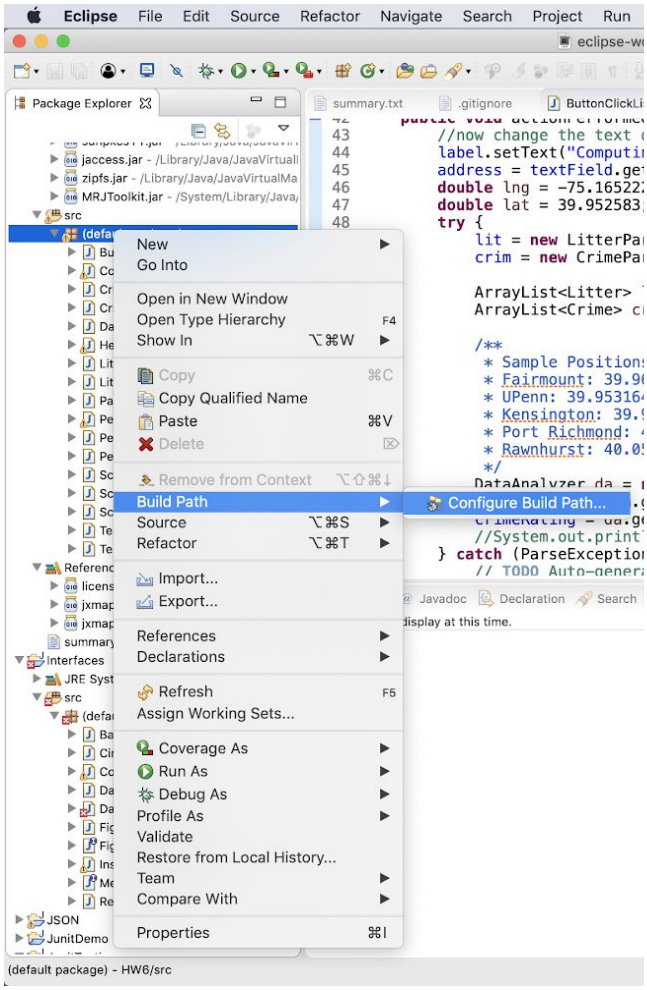
4. Download the following public datasets and place in the project folder:
    a. Crime: https://www.opendataphilly.org/dataset/crime-incidents/resource/c57a9de2-e300-468a-9a20-3e64e5b9b2da
    b. Schools:

       https://www.opendataphilly.org/dataset/school-performance-school-progress-report/resource/09d1478d-7556-460b-bd9e-e7fcc107a85b

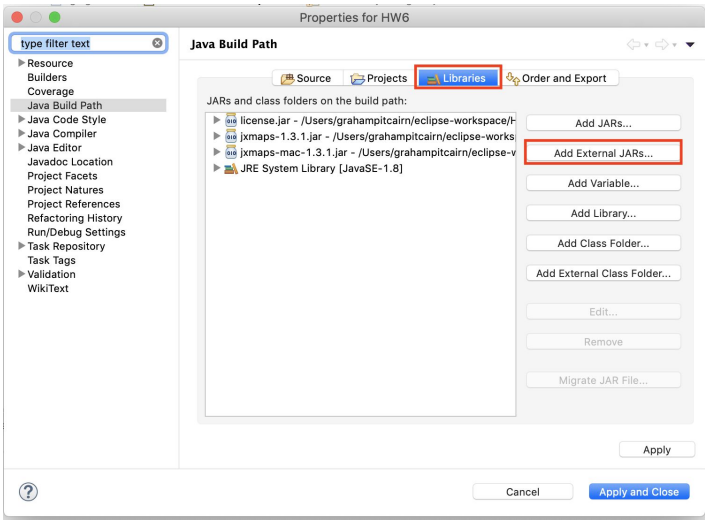
       https://www.opendataphilly.org/dataset/schools/resource/8e1bb3e6-7fb5-4018-95f8-63b3fc420557

    c. Litter: https://www.opendataphilly.org/dataset/litter-index/resource/6ad330ce-c233-47ff-a574-01b6553c7794
    d. Permit Parking: https://www.opendataphilly.org/dataset/residential-parking-permit-blocks/resource/c0e31693-7615-48bd-82e4-786dcab93129
5. Download JxMaps library: https://www.teamdev.com/jxmaps
6. Download JSON library: https://www.json.org/
    a. We used the library provided on Canvas.
7. Add these files to the Java project folder in your workspace.

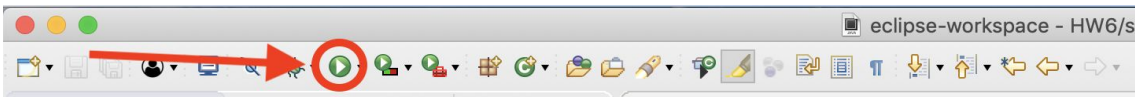
8. Right click on Java package in IDE -> Build Path -> Configure Build Path



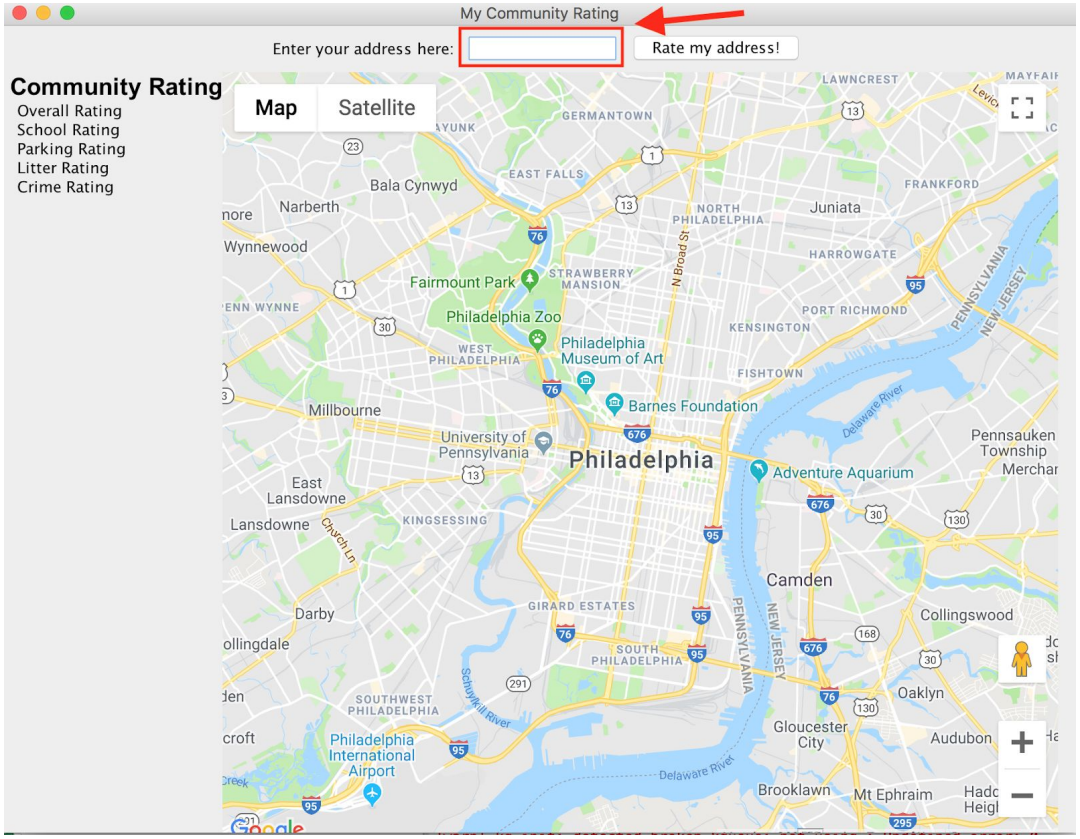
9. At the top, select the Libraries tab.



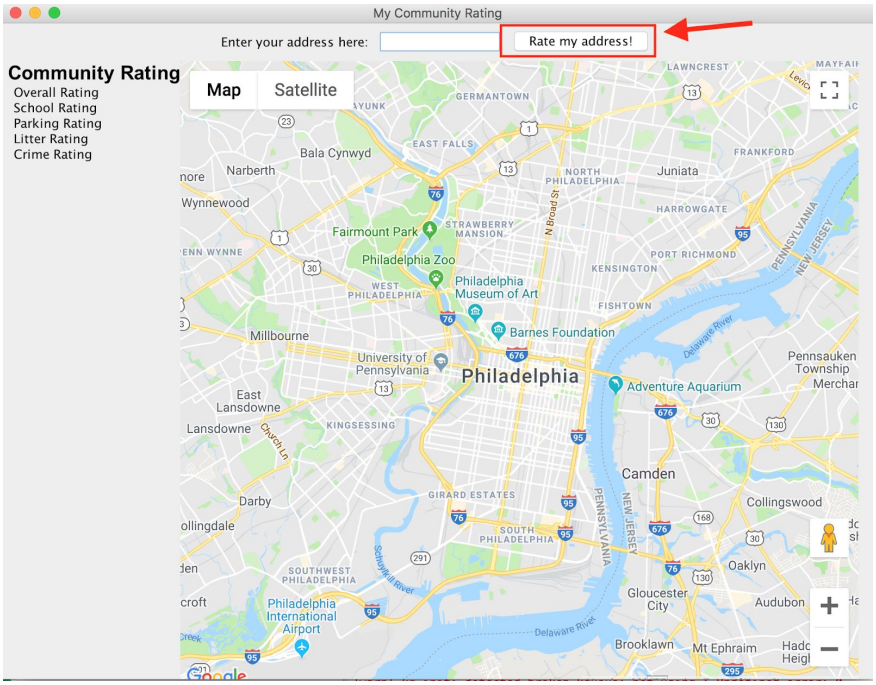
10. At the right, select “Add External JARs”.
11. Add all JxMaps JARs. This includes the license.jar, jxmaps-1.3.1.jar, and your OS-specific .jar file (i.e. jxmaps-mac-1.3.1.jar).
12. Add the java-json.jar.
13. Depress the green “RUN” button on CommunitityRatingGUI.
    a. If not using Eclipse, use applicable IDE run.



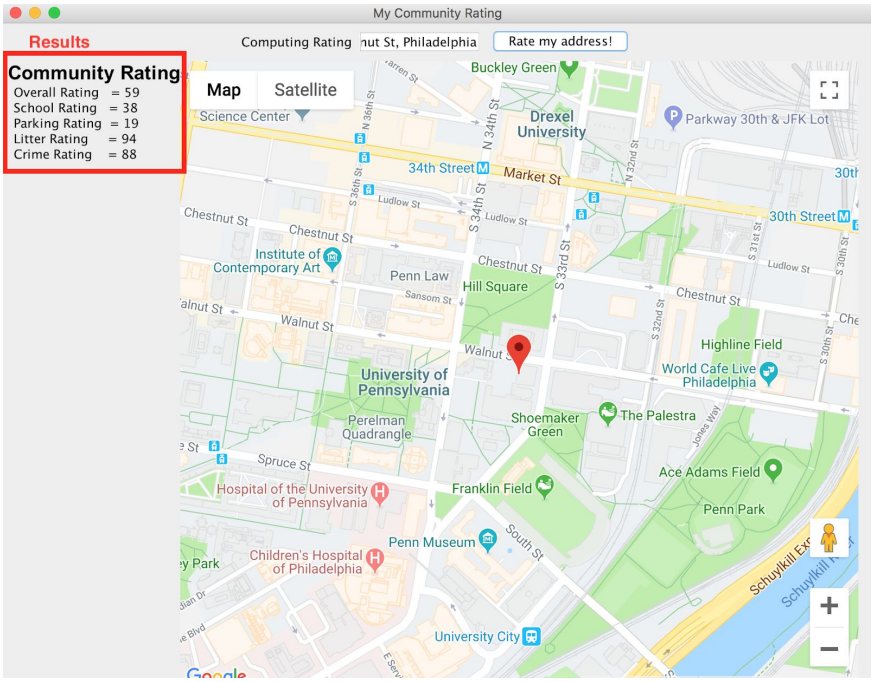
14. Type the address of interest into the provided text input box.



15. Press: "Rate my address!"



16. After comparing the relevant data to the address you provided, *My Community Rating* will return an overall score which takes all four indices into account as well as ratings for each index.



Results

Results are provided in the left portion of the program panel. The scoring is out of 100 with the best access to schools, safest, cleanest, and most parking accessible neighborhood receiving the highest ratings.