Neighborhood Informant - Sprint #1 Progress Report

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Project Summary

Neighborhood Informant is a desktop application that provides ease to Chicagoland residents by providing a single application of various Chicago-data. This application will gather real and accurate data straight from the City of Chicago database. There will be an easy-to-use user interface that will allow a user to pick any location and neighborhood and receive relevant feedback about it, such as crime, schools, average income per capita, homes for sale, tax increment financing, etc. Neighborhood Informant will be a one stop for a multitude of accurate Chicagoland information.

Database Tasks

Data gets uploaded to Firebase online successfully from just a csv file. The program parses the entire csv file and only keeps data that is relevant to the project, while discarding unimportant data. The program then makes repeated POST calls to the online database and uploads all the data automatically. The program parses the data and categorizes data based on time. For example: if a row of data belonged to a different, then the correct year would get populated based on year and month. All of these is being done by providing just the name of the csv file. Next objective is to project a list of file names, so all of the data gets uploaded instead of one file at a time. All of these was made possible by using Firebase API, Gradle, and Java.

User Interface Tasks

The main goal for this task was to get the user interface started. So far, we've instantiated the overall user interface design using the Java Swing library. It includes different options such as Crime, Housing Rates, etc, as well as an Update Map option. The only option that is implemented right now, however, is Crime.

For the Crime option, a map is visible, which was attained via the Google Maps APIs. We also have a few datapoints to test out the Crime on the map. The next steps for the UI are to connect it with the database, expand on it with more data and a variety of data, and slowly improve upon its graphics/visual-appeal.

Next

The objective before the next sprint, from the database standpoint, is to clean up data and only focus on a small subset rather than the entire city.