Project: Sturents
Team: Rental Central

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Demo Summary:

1. Functionality

- Ability to scrape Kijiji listings for student targeted home rentals
- Push found listings to a JSON file locally on app
- App returns the JSON in a visual list with swiping capabilities, left for no, right for yes
- Saves swiped right listings into a JSON locally on app for users to browse their selected listings
- Can click listings to open for more detailed description

2. Simulated (To be implemented)

- Scraper automatically crawls websites every 12 hours
- Push the scrapped listings into Amazon RDS
- App parses table to local JSON
- User can open saved list and click listings to push the user to a email to lister, if no email is listed push user to the URL of the listing
- Facilitate a more OOP style

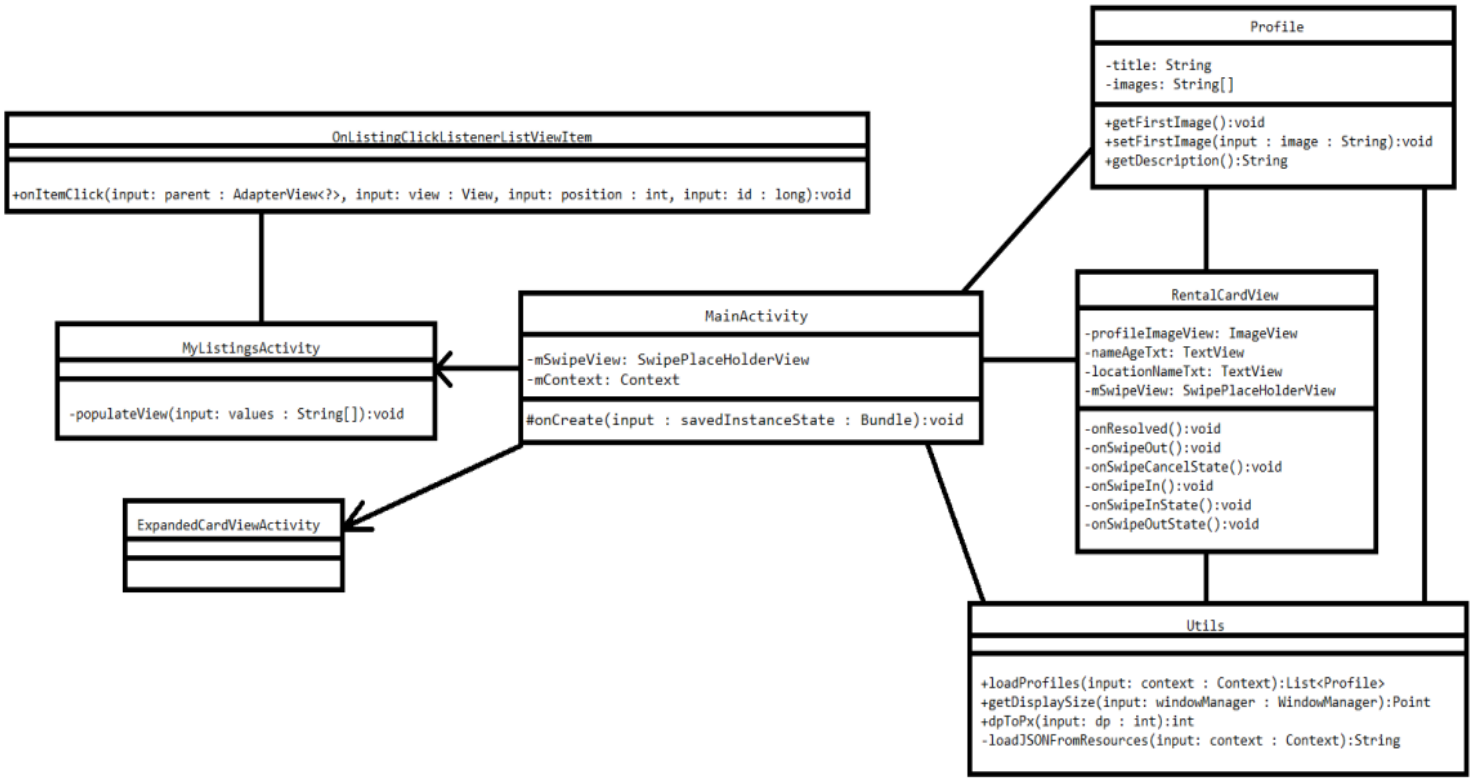
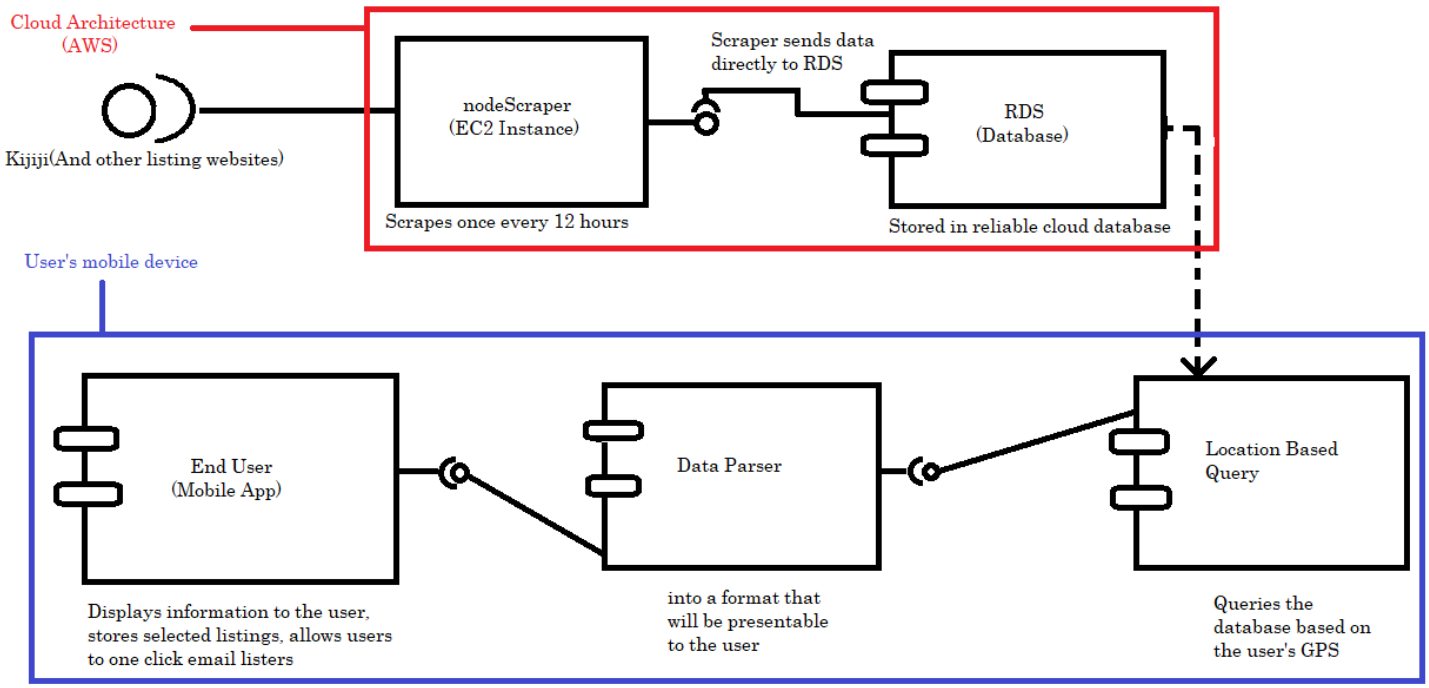
3. Difficulties

- Setting up the Cloud Architecture
- Figuring out most effective way to store stuff in RDS
- Initially using python to scrape was very slow, transitioned to nodejs
- No macbooks forcing us to use android studio, no one has an android that can support android version 7.0(Teammate purchased one solely for project)

4. Roadmap

- Refine user UI to be aesthetically pleasing
- Automate Web Scraper on Amazon EC2 instance
- Store all listings on RDS
- End user app queries RDS for a smaller JSON related to their GPS location

UML Diagram(current build):



Component Diagram(In progress):