Changes Made:
-App chosen
-project Idea
-algorithm
-use case diagram
-data structure
-plan to learn
-I essentially removed anything having to do with the api, location and lowest sum algorithm. Neither the google maps, Good rx or any location api were available to me and I could not accomplish full functionality of my sum algorithm in time.

Gabriela Johnson
PresPrice - Assignment 3
11/30/17
Github Repository: https://github.com/gabrielajohnson/PresPrice

PresPrice Proposal

The social justice issue: I am attempting to address the expensiveness of purchasing medicine by creating an app that compares the prices of medicines across different pharmacies.

Project Title: PresPrice

Option Chosen: Option 2

App Chosen: I am choosing to create a web based app. I will be creating it using Ruby on Rails and SQLite to hold my database of people's account information. I will also be using an SQL database to hold the medicine information.

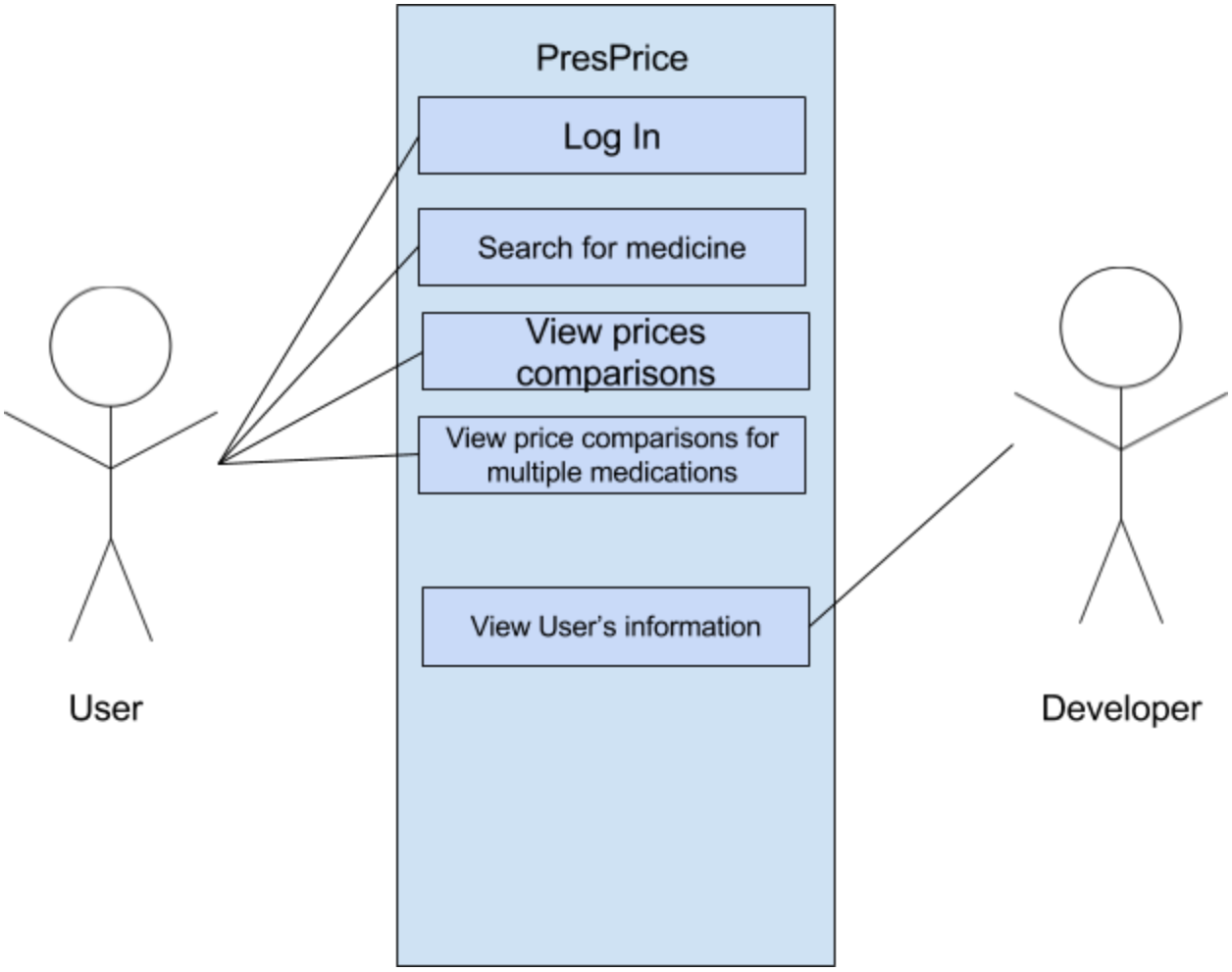
Project Idea: I want to create an app where people can compare medicine prices before purchasing so they can save money. Access to healthcare is an expensive problem in our country especially for low income families, and it is necessary to be mindful of one's medical expenses. The app would work by having the user open the app then entering in their medicine in the search bar. The name of the medicine would then be retrieved from the SQL Database and the pharmacies that have these medicines would have their prices displayed. The pharmacies displayed would be Walmart, CVS, Walgreens, Rite Aid and more. It is innovative because instead of users searching pharmacy websites for the prices of their medicine, this displays the prices all in one place so the user can make a quick decision. I also want to be able to provide a generic alternative to the medicine if available, which would make the price even cheaper. The goal is for the user to be able to decrease their spending by finding the cheapest option for their medicine purchases. This will address the social justice issue because it will support low income families by decreasing their medical spending.

Algorithm: I will be creating a search algorithm that takes in the entered medicines the user needs to purchase, and display the individual prices for both medicines at the same time so the viewer can see the cheaper combined option for each store. The user would choose to search for multiple medicines then enter in 2 separate medicines into the search bar of the app. The results of the individual prices would then be displayed to the user.

Data Structure: I will be saving the user information to an SQL database. For every user saved to a line, there will be a column that saves their username and password and name and email. There will also be a database to hold medicine.

New software engineering concepts you expect to learn or reinforce: I expect to learn more about Ruby on Rails and SQLite since I have used them before but never at this level. I expect to utilize one of the many process models we have learned about, such as the incremental model. I expect to reinforce the design concepts we have learned such as Reducing short term memory load and striving for consistency. I also expect to apply the general guidelines of firmness and delight as well.

Use case diagram:



A plan for how you will learn the language(s) / platform(s) you will use in this project:
I plan on using the code academy tutorials to review Ruby on Rails and SQL. I will also read through the documentation and look for tutorials on how to use it by previous developers.

Github Link: https://github.com/gabrielajohnson/PresPrice

Open Source

Open Source License

All of these licenses are pretty similar but they do have different guidelines and restrictions. For example, the Apache license is free to use, modify, distribute and sell Apache

Licensed Software without worrying about the use of software. Apache works well for organizations or projects that are larger and managing more contributors, but don't care about others commercializing the work. However, when using the Apache license if there are any problems with the software the licensee is liable, not Apache. If you are concerned about patents, this license would be the one for you.

The MIT license is completely free to use, change and redistribute and its conditions require the protection of copyright and license notices. Authorized works and larger works might be distributed under various terms and without source code. However, this puts restrictions on the eventual end users who end up using the software, for example they might have to watch advertisements if other people who worked on the code put them. If you want a simple and permissive license, and have a project that you want to make easy to share, this would be the best option.

The GNU 'General Public License' gives users freedom to run, study, and modify software. The GNU is a license that requires anyone who distributes your code to make the source available under the same terms. If you have a project where you care about sharing improvements on the code, this license would be the best.

License I chose: MIT

I chose this license because it was simple and straight to the point and only requires me to preserve the copyright and license notices. It was also less wordy than the other two licenses so I knew immediately what I was getting with this license. You are allowed to do anything you want with MIT-licensed code, as long as you include the original license somewhere in your derivative.