

Gordon Petry

VM Name: csc415-server13.hpc.tcnj.edu

Student1 Password: S1se41501fall2020!

Directory: ~/vm-csc415/assignments/BeaconResources

Assignment 2

Proposal Document

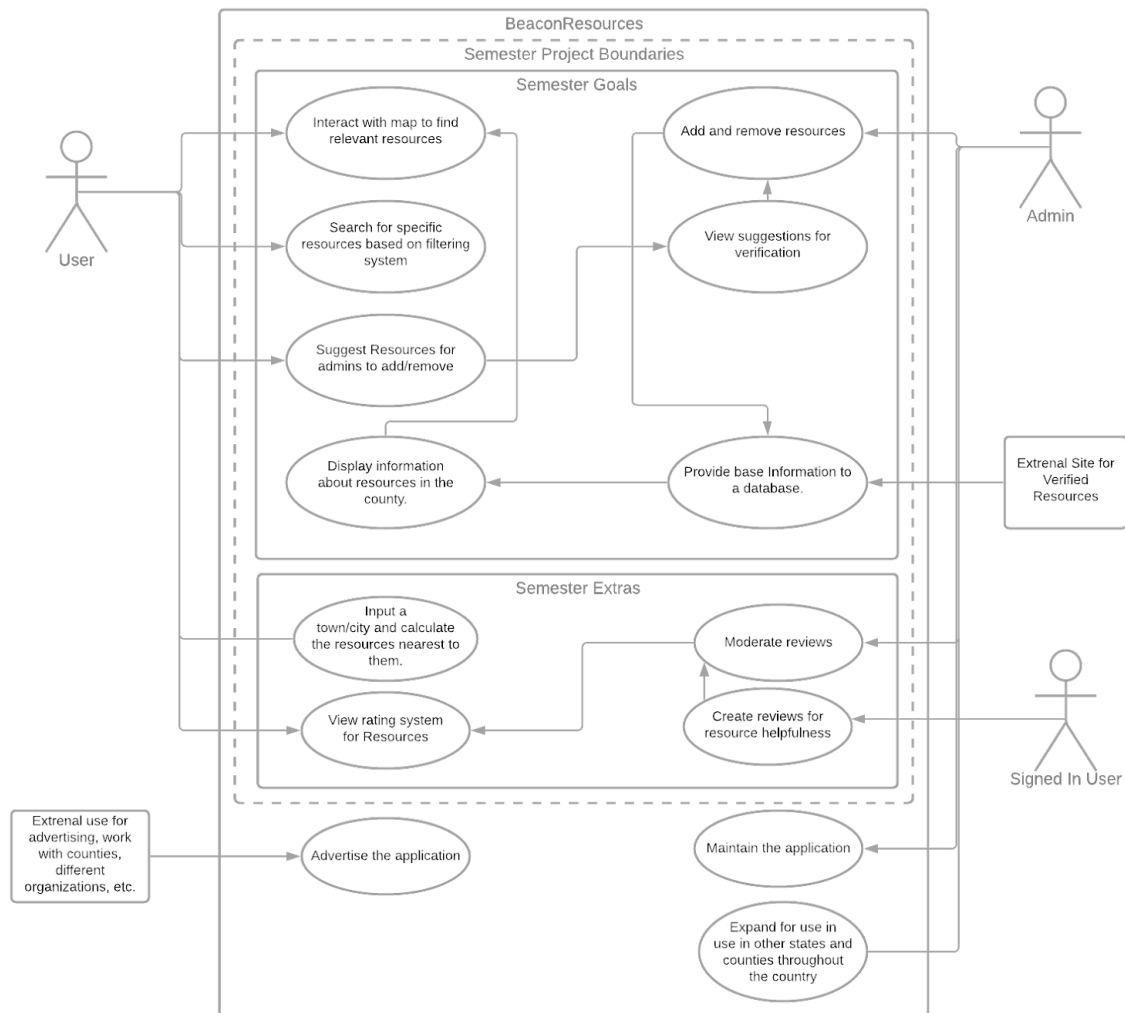
For this assignment, I chose to go with Option 2 for the reason that I wanted to make my own impact on the world through my project rather than add something onto an existing project. This gives me a decent amount of control for my implementation and hopefully will allow me to help out in my social issue of choice.

The social issue I've decided to address is the lack of resources available to the homeless population, particularly addressing a gap in current resource applications. This gap is how they handle resources for smaller towns and rural areas. While cities have plenty of support, it's much harder to find help through the typical means if you're outside of a larger city.

The project I've decided to design is called BeaconResources. It is a web application that will allow for easy access to verified resources, such as homeless shelters and food banks, by county in New Jersey with appropriate category filtering. This project is innovative because it is not only something that will provide value to a large number of people, but it also adds a more organized solution to the more popular means of searching for help which currently includes an uncategorized list through Google Maps or Apple Maps if you are outside a major city.

I expect to work with PostgreSQL queries in order to apply different filters on searches for specific resources to narrow down the presented selection of resources available. Applying filters in this way will allow me to lower the amount of information I am pulling from PostgreSQL at a time and in turn take less time to process. I expect to work with Software Engineering concepts such as more accurately diagrammatically representing my code, writing code more modularly, and further expand on my current knowledge of software systems.

### Use Case Diagram:



## **Timeline:**

Monday, October 5th

- Refamiliarize self with PostgreSQL
- Look into homeless shelters to start and begin gathering information for the database.
- Decide schema for PostgreSQL database and fill with verified resources for a few counties.

Monday, October 12th

- Learn to better work with Rails.
- Create a UI for the page with the map.
- Display information to users through rails webpage.

***Thursday, October 15th, Assignment 3 due date***

Monday, October 16

- Design queries for filtering data.
- Allow for users to input filters to query relevant resources.

Monday, October 26

- Develop login for admins.

Monday, November 2

- Allow for users to make suggestions about a resource.

Monday, November 9

- Allow for admins to view suggestions and then verify suggestions to input data into the database.

***Thursday, October 12th, Assignment 4 due date***