



Heart Help

Have a Heart, Save a Life

Final Presentation
December 12th, 2015



- **Introduction**

- Proposed Solution
- Application

Cardiovascular diseases are number one cause of death in developed countries

% of all deaths

Developed countries	
Ischemic heart disease	16.4
Cerebrovascular	9.3
Lung cancer	5.9
Respiratory infections	3.8
COPD	3.5
Dementia	3.4
Colon cancer	3.3
Diabetes	2.7
Breast cancer	2.0
Stomach cancer	1.8

Problem Statement

- People who suffered a recent cardiac arrest have difficulty doing physical activities
- Most people find it difficult doing physically intensive tasks around their house
- With the additional payments for medical bills and other expenses they cannot afford to hire help to get through these daily tasks



Heart Help



- Introduction
- **Proposed Solution**
- Application

Proposed Solution

- Heart Help application is a user friendly application that connects heart patients, volunteers, doctors and donors
- Volunteers are local high school students who will help the heart patients do the physically intensive tasks like snow shoveling
- Monitor the heart patients data using a sensor device to send him alerts
- Advising doctor can monitor the patients data through the application and suggest medication changes
- Donors can use the application to make donations



iPhone 6
4.7 inches



Heart Help



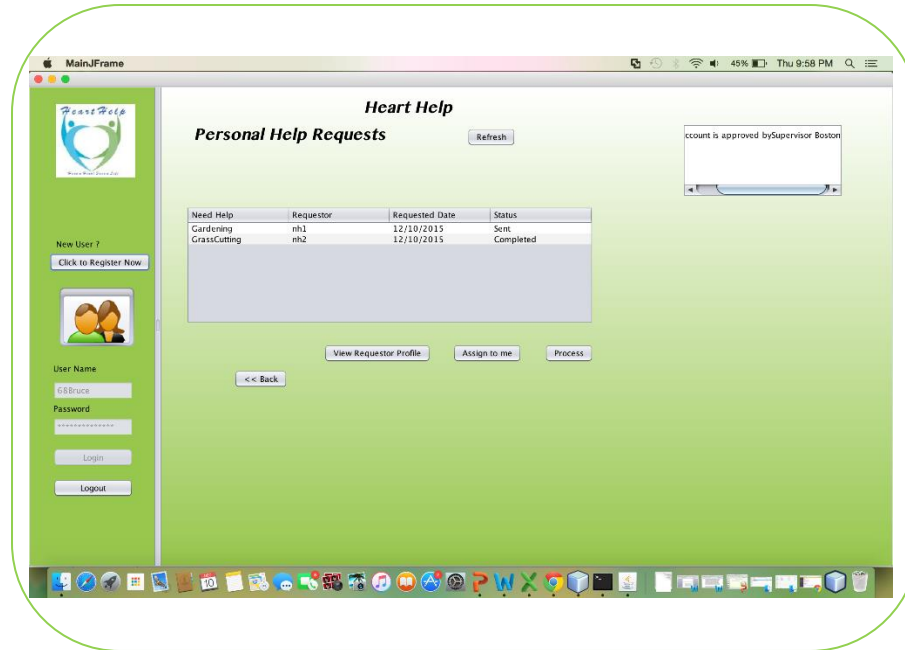
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Object Model



Use Case

- Request for Help from Help Seekers to Volunteers
 - (a) Select a particular volunteer from a network and send a request
 - (b) Send a request for help to the volunteers in the network, which is fulfilled by anonymous volunteer
- Volunteers can request for transport service to go the help seeker location to fulfill the help request
- Help Seekers can raise a request to donors if they cannot afford sensor device and are suffering from heart problems



Use Case contd.

- Application Monitors vital data and proactively send alerts to the help seekers if their past two vital signs are not in normal condition
- Help Seekers can send vital data to doctor for analysis and seek suggestions or new medication if no examination is required
- Donors can make donation by fulfilling the sensor device request from a help seeker or by donating money to the Heart Help enterprise

Key Roles

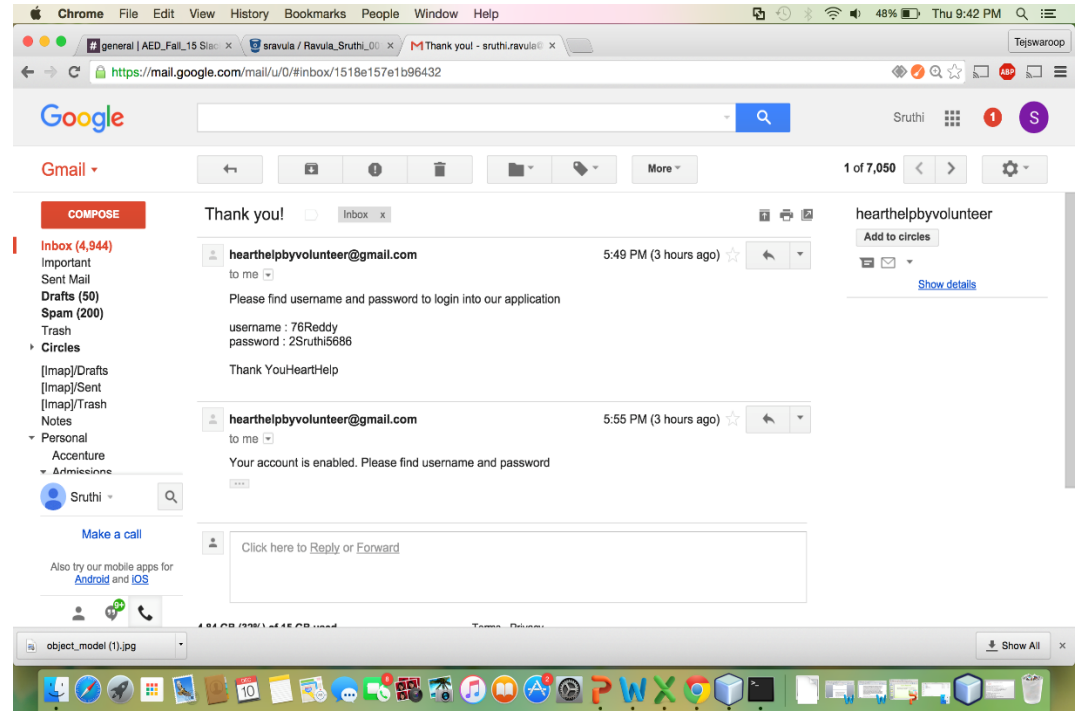
- Volunteer Role: The responsibility of the volunteer role is to fulfill request from Help Seeker with the help of Transport Organization
- Help Seeker Role: The Help Seeker role raises various requests like request to Volunteer for help, request to donor for a sensor device, request to doctor to seek suggestions or new medication
- Supervisor Role: The supervisor is responsible to approve the volunteer, help Seeker and Doctor sign up request

Key Roles Contd.

- Doctor Role: Vital Data tracked using sensor device is sent by help seeker for analysis. The doctor can reply with suggestions or new medication.
- Donor Role: The donor role is to make donations by processing the sensor device request or donating money directly to the heart help enterprise account.
- Heart Help Manager Role: The responsibility of the manager is to enforce the system is working by and identifying the need by analyzing the data through Business Intelligence technique.

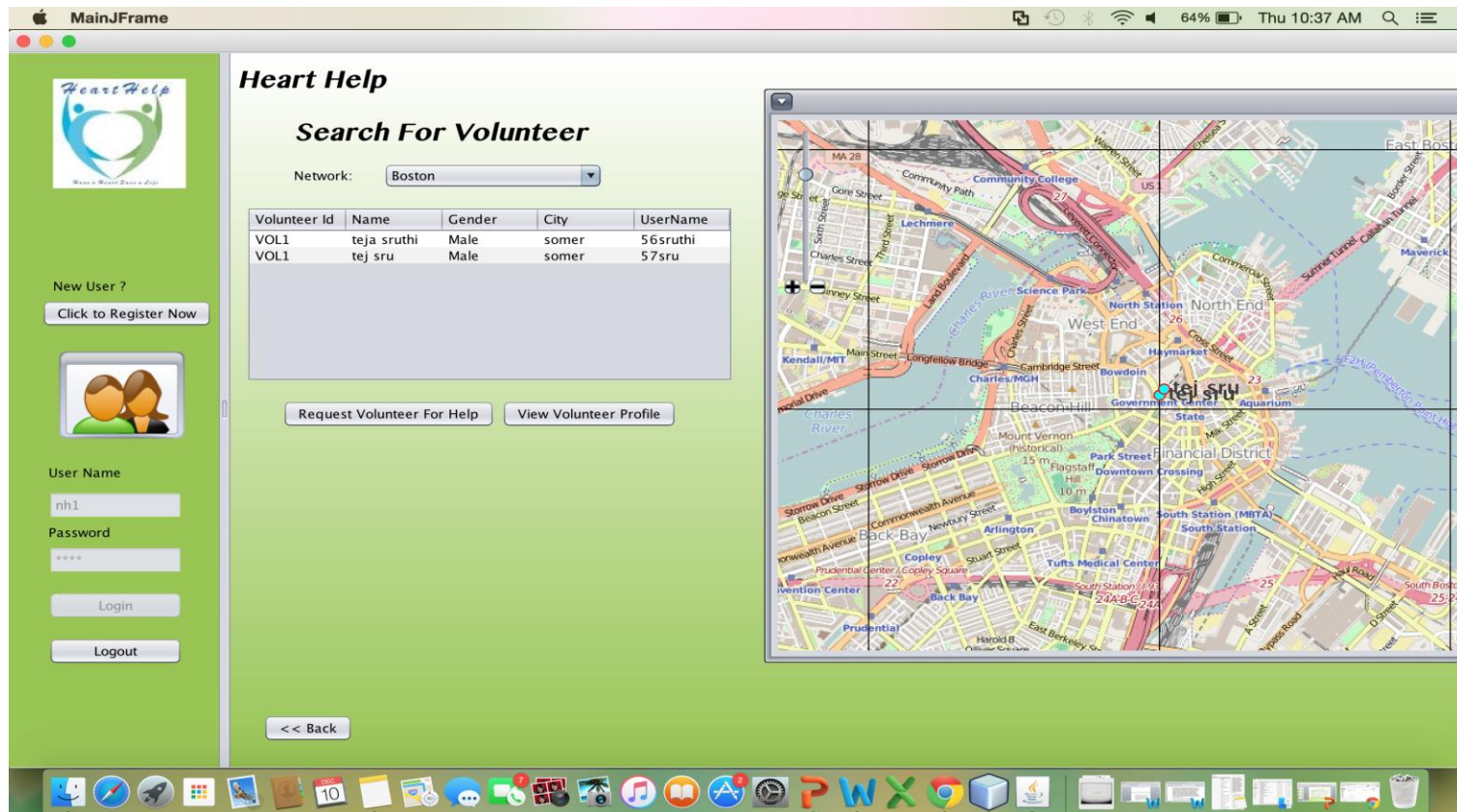
Key Features

- Help Seeker, Volunteer or a Doctor sign up the application via registration page
- When a volunteer sign up the application an email is sent to the registered email address with the user name and password
- An email is sent to Volunteer, Help Seeker, Doctor when the account is enable or approved by the supervisor



Key Features

- A Map is displayed to view the volunteers on the map. Volunteers are pinned on the map so that help seeker can easily.



Extra Features

- Email is sent to users appropriately when required
- Alerts are sent when required
- Help Seeker can write a testimonial for Volunteer
- Graphs, Chart Diagrams are displayed to Mayor, Manager and Help Seeker when required

