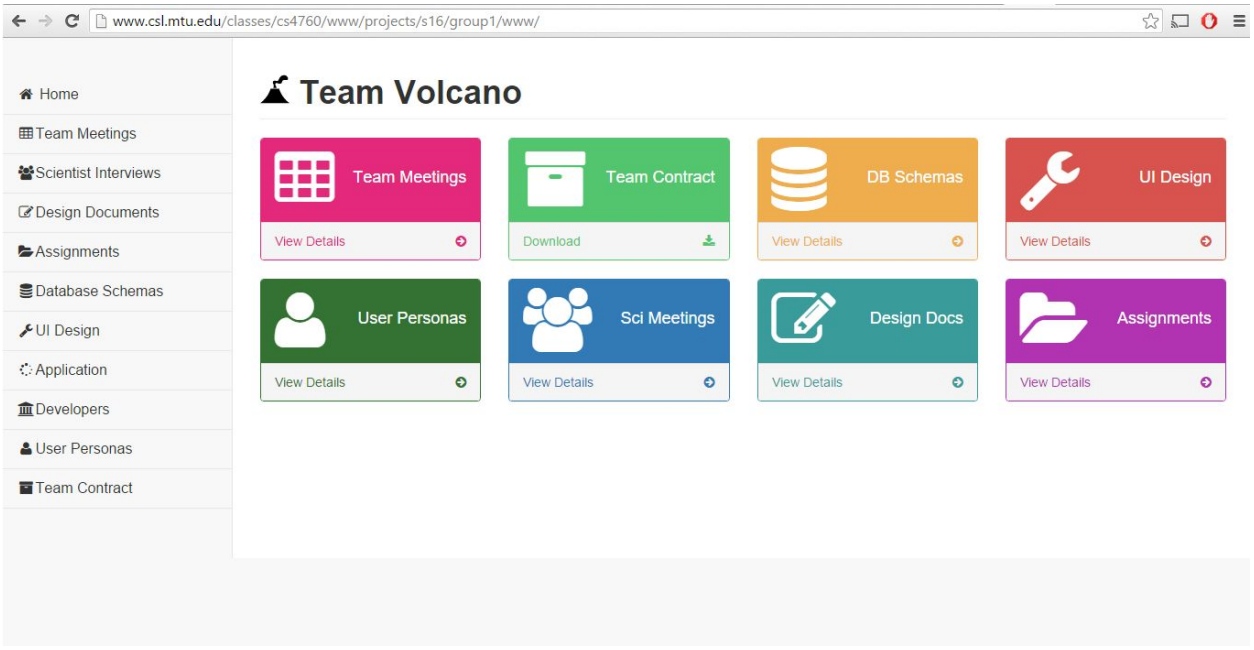
Assignment 2

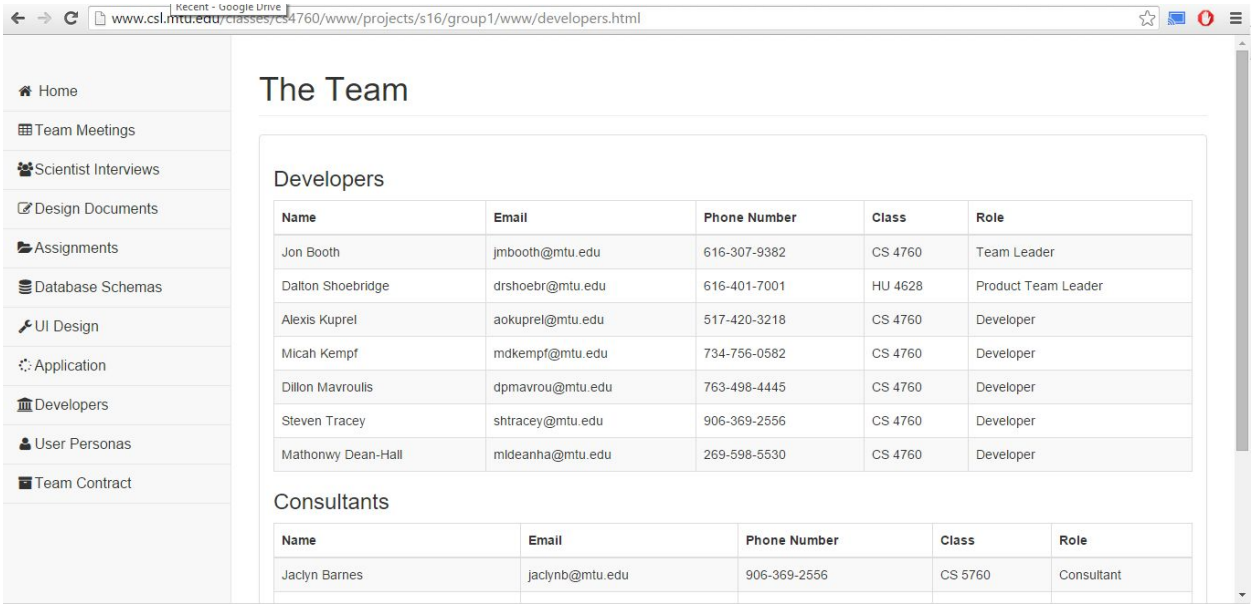
Team Volcano

Team Website:

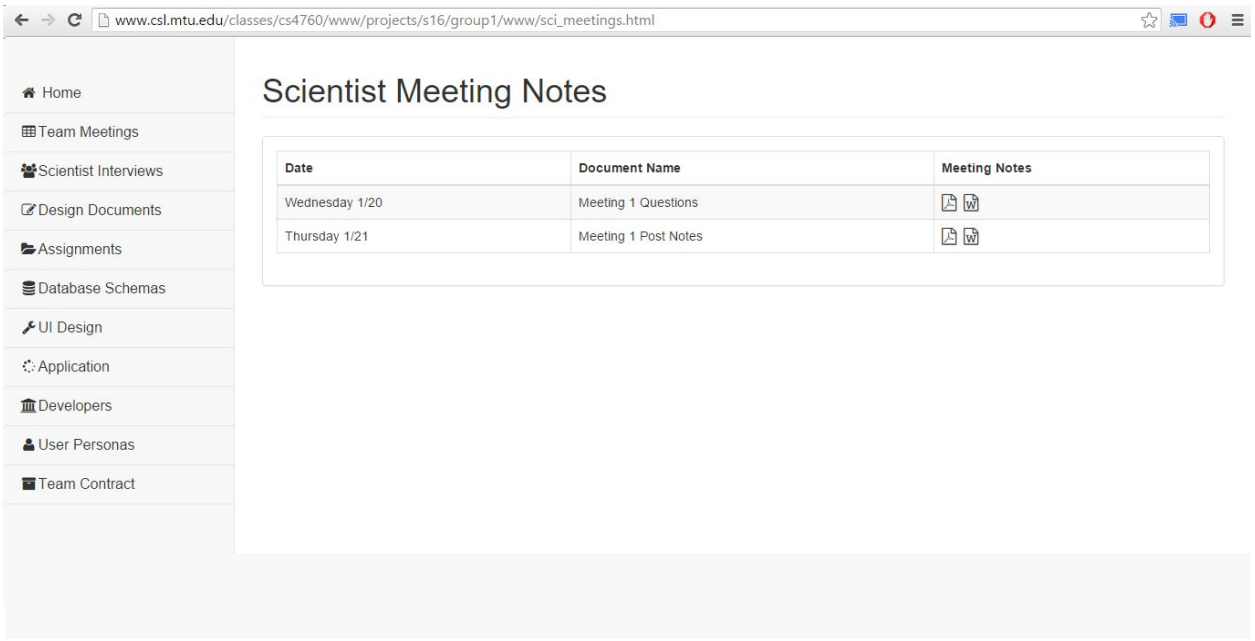
Home Page:



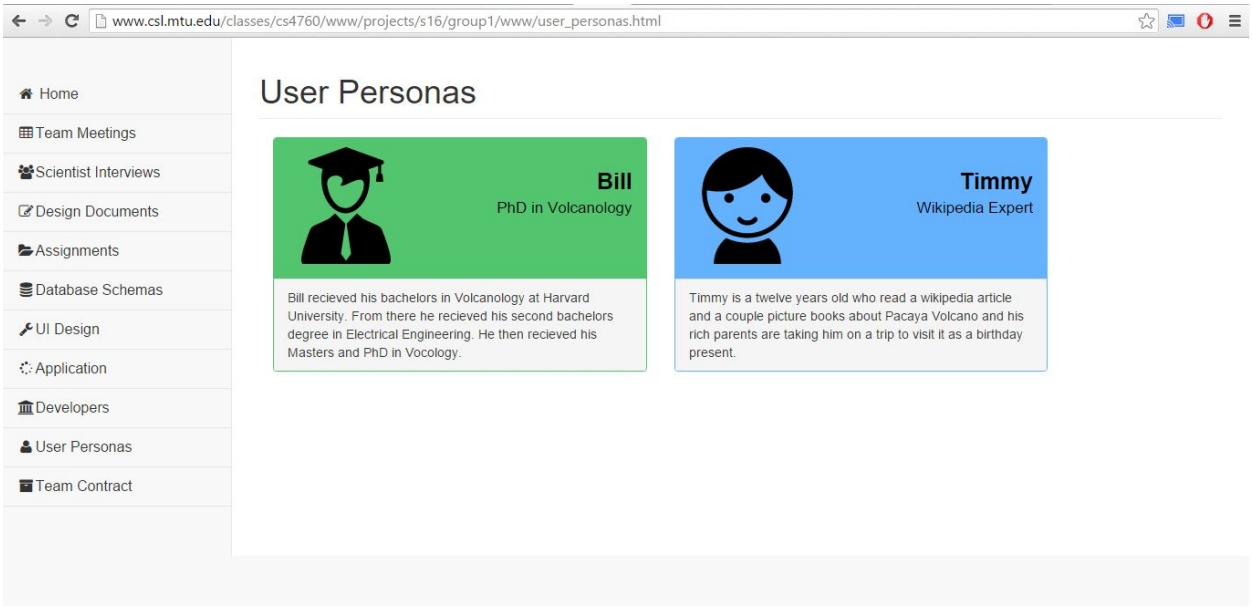
The Team:



Team Contract/UI Design/Design Documents/Assignments/DB Schemas (etc.):



User Personas:



Stakeholders:

- Development team - tertiary stakeholder
- Robert - tertiary stakeholder
- Scientist - secondary stakeholder
- Grad Students - tertiary stakeholder

Users:

- Volcano guides - primary
- Tourists - primary
- People living near Pacaya - secondary

Personas:

1. Bill Smith
    - PhD in Volcanology from Stanford
    - Masters in Volcanology from Harvard
    - Bachelors in Electrical Engineering and Volcanology from Harvard
    - Fluent in English, Spanish, and French
2. Timmy Jimmy
    - 12 Years Old
    - Researched Volcanoes on Wikipedia and watched a couple of youtube videos
    - Fluent in English
    - Rich parents are taking him on a trip to visit Pacaya

Nominal Use Scenario

- We (The Developers) are going to be developing, testing, and shipping the application.
- Robert is overseeing the development and owns our creation.
- The scientist and the graduate students are the ones who are going to be viewing the aggregated data and perhaps collecting data themselves. The scientist is also the person who sought to have the application developed.
- The users are going to be the tourists, guides, locals, and scientists that are filling out the form and collecting data using the application.

Simplified Hierarchical Task Analysis

Upper level views:

Report data
- Collect data
- Fill out the form

View Data
- Login
- View Aggregated data
- View form data

Lower level views:

- Login
  - Submit
  - Cancel
- Form
  - Submit
  - Cancel

User Profiles:

Potential User #1

The tour guides using this app fall into two different demographics. There are local tour guides who will mostly speak Spanish and may have less experience using a smart phone. However, they will be the most likely be the most invested into the information the app is meant to gather. The second kind of tour guide will be from an agency and will be bilingual. They will have a smart phone and the know-how to properly operate the app and explain it's importance the tourists.

Potential User #2

Tourists at the volcano will have a wide range of age and ethnicity. They can be local tourists who visit the mountain often, or foreigners that are visiting from North America and Europe. Ages will range from high school students to retirees as will their own comfort with technology.

As for the interest in using the app, these users can also range from being novice volcanologists to being indifferent to the situation surrounding the volcano.

Task Analysis

The purpose of this application is to collect data on the Pacaya volcano in order to assess risk for eruption and monitor activity. With app, the users will be able to take pictures of different significant events at the volcano such as fumaroles and lava flows. They will then input any other data that they can assess from the situation such as plume height along with their photo. All information will then be filtered and sent too the scientists to study an assess the condition of the volcano.

Database:

Users:

- Username – Unique Username specific to each user
- Password – 30 character hashed password used to sign on
- UserID – Integer used to determine type of user (admin,general user…)

Plume: Smoke like, descriptive:

- color – choose whether it's blue,white,red,gray,or no color
- height – integer height of the smoke
- direction - direction of the smoke
- explosions - yes or no
- visible - yes or no or none
- photo - File upload
- notes - specific notes of where observation is taken (Summit, Cerro Chino, Mirador, other)

Lava Flow: Not Always Flowing

- position – position of the end of the flow
- height – height in meters
- width – width of flow
- photo – file upload