Group: 106-4

Project Features list:
- User/Researcher Log-in/Creation
  - ask for and verify usernames and passwords, store/keep track of users and encrypted passwords, able to differentiate between general user and researcher. Allow account creation with a survey allowing filling out user information that would potentially be relevant to research studies.
- User/Researcher Profile
  - Present all user/researcher information and include ability to edit info, as well as relevant info
- Feed for postings
  - Orders all research opportunities by recently added
- Matching algorithm
  - Have users fill out demographics and other information and utilize this to help researchers locate ideal candidates
- Search through postings
  - Search/filter through by keywords, organizations, e.t.c. Display appropriate results
- Search through users
  - Allow researchers to search through and extend opportunities towards potential participants and filter through by relevant criteria they are looking for
- Database
  - Store all user/researcher profile data, research opportunity data, e.t.c.
- User Friendly Interface
  - Allows site users to easily use the website.

Requirements:
Functional (What something does):
- User/Researcher Log-In/Creation - Prompt user for username and password or to create an account, offer to create an account if invalid login is input, allow for separate types of accounts between users and researchers, allow for dual-account type. "I want to be able to log in or create an account if I have not already done so."
- Database - Stores all profile and website information in tables, that can be accessed "I want my profile/posting information to be stored securely and kept consistent."
- Postings Feed - Display available positions to the user based on whether they are a student or a researcher."I want all postings displayed as the home page ordered in some general way (like recent posts) with the ability to change that ordering (e.g. to popularity)."
- General User Interface - Create two separate HTML pages for both the subject and user searching, including different methods for searching what is relevant to them. This interface must be well tied into the database to ensure that users are optimally linked. "I

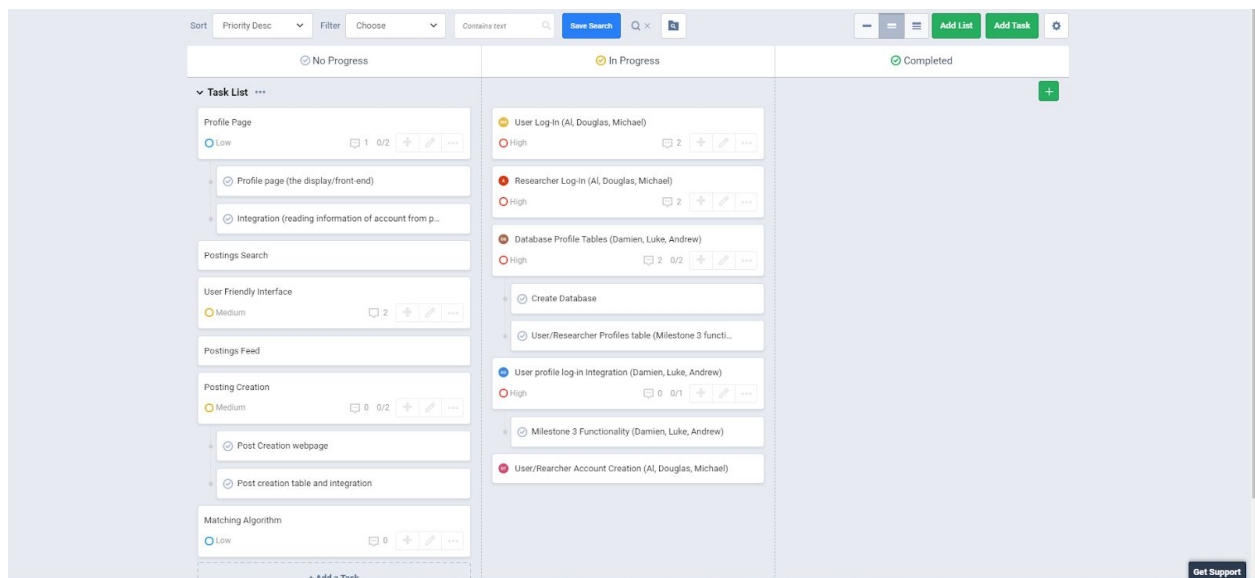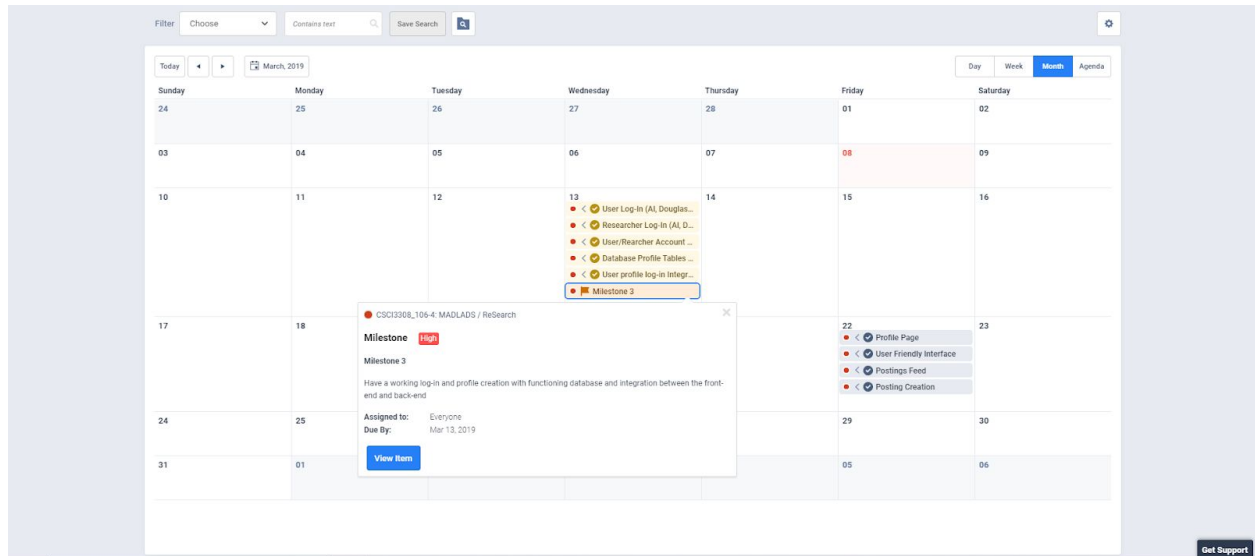want the site to look nice, be easy to use, and know where everything is. I don't want to get 'lost'."
- Postings search - Search through all postings made on the site and filter through based on inputted criteria. "I want all postings for research opportunities displayed based on the requirements/filters I've given."
- Postings/Creating research Posting - Allows for a post to be created with requirements for the desired user participants. "I want to create a post with the required participant information."

Non-Functional (How something does things):
- User/Researcher Log-In/Creation - Take user input and verify against stored user accounts as well as verify password
- Database - User data stored in tables, tables can be read from and inserted to with the integration scripts, implemented in PostgreSQL
- Postings Feed - Will have a feed sorted by most popular, date, or most viewed; and will have button selections on the side for more specific attributes to the research opportunities. The feed will be updated based on user selections.
- General User Interface - Design a front-end for both the subjects and the researchers. The researcher interface should make it easy to find test subjects of a certain demographic and to get information about their study out to those who may be interested in participating. The subject interface should enable them to retain anonymity as to their personal information, only sharing it when they approve for it to be shared. What's more, subjects should be able to see potential research opportunities that they may desire to participate in.
- Postings search - Look through the database to find a user inputed match for a specific posting.
- Postings/Creating research Posting - A form on the front end that allows the researcher to fill out info for a job, then adds the new posting to the posting database.

Project Plan:
Using Freedcamp

Front End:
> Douglas Thomas
> Alvaro Santillan
> Michael Rogers

Back End/Integration:
> Damien Beecroft
> Andrew Gilfillan
> Luke