**Team Members:**

Angela Steinmetz, Anahita Ahmadi, Aayushi Agrawal, Siddharth Bansal, Sanjana Ilango, Anisha Reddy, Logan Norman, Ramneek Singh

**Web Interface (30 hours)**

**Team Members:** Angela Steinmetz, Anahita Ahmadi, Aayushi Agrawal, Sanjana Ilango

* Log-in Page - Our website will include a log-in page. This log in page will have a username field (email), password field, and a login button. There will also be a link to create a new account for those who do not yet have an account.
* Account Creation Page - This will include a section to enter in your email address, password, a verification of your password, and a create profile button. It will verify that this email is not yet in use.
* After verification that the log-in information is correct, the user will be brought to their profile page
* Profile Page - This will include a section to enter your name, age, gender, sexual orientation, and social media handle. Users will also be able to put down their own personality traits that will match the form questions in order to see how other people’s preferences match with the user's personality traits.
* Form - Users will be able to go to a form that asks for the user’s dating preferences. This will include questions regarding what personality traits they prefer. The user will be able to re-fill out the form if their preferences change.
* The form will also have a section for users to rank people they already know.
* Generated Matches - There will be a section that outputs a match for the user. This match will change every day while the user doesn’t accept the match. For users to match with each other and accept the match, they will be taken out of the matching program until they opt back in.
* Calls the backend for all functionality.

**Server Software (100 hours)**

**Team Members:** Siddharth Bansal, Anisha Reddy, Logan Norman, Ramneek Singh

* **DATABASE (25 hours) -** The website will be powered by a database which stores the information of every user
  + User table will be used for validating the information of each user (userID, username, password, etc)
  + UserProfile table will be used to store the profile information of each user (name, age, gender, etc)
    - In particular, the gender attribute will be used as the basis of matching for our algorithm
* **REST API (40 hours) -** There will be a REST API which will connect the front-end to the back-end. The API will support the following:
  + **Authentication (16 hours) -** Confirm the existence of a user’s profile
  + **Profile Creation (12 hours) -** Allow the creation of a new profile
  + **Get User Info (12 hours) -** (name, age, etc..) to display on front end and pass to ranking section (pass profiles to the matching algorithm using API)
* **COMPUTING (35 hours) -** Power Matching People
  + **Matching (20 hours) -** Every week, run our house-developed algorithm to find a new match for each new user
  + **Algorithms (15 hours)-** Two house-developed algorithms to efficiently find possible matches for multiple
    - **Modified G-S Algorithm** - For those looking for strictly heterosexual realtionships
    - **Modified All Possible Combinations** - For those looking for non-heterosexual relationships
* **All query responses are in JSON format**