

Group #6

Team Name: Code & Cupid

Domain: Dating App

Software Specifications:

This program allows a user to find candidates for romantic partners in the form of other users on the platform. The program will allow users to create profiles detailing their romantic preferences, what they are looking for in a relationship, their hobbies, and some of their personality traits. This profile will be created through a questionnaire which users will be required to fill out as part of the account creation process, and can be updated at any point. Additionally, users will be able to indicate the level of compatibility they want to have with their dating candidates. The program will provide each user with a collection of users that have a compatibility equal to greater than their preferred level of compatibility. The level of compatibility two users have will be determined by the similarity of their answers to the profile questions. Each user will be able to “swipe” on a compatible user they are interested in getting to know, and the user that is “swiped” can decide whether or not they want to chat with the user that “swiped” them.

User Stories:

- Cathy needs to message her added friend. She logs in the app with her password and her username previously generated. She goes to the menu bar in her home screen and selects "chat" to open a new window which has a menu bar for conversation with all her friends listed. She clicks on one of the conversation bars and look at the full conversation history between her and her friend, then she starts typing. **[Kensley's Story]**
- Cathy creates a username and a password for the dating app. Then, Cathy logs in the the app with her username and password. Cathy first edits her profile. Then she search for other users. The app will show their profiles. She is interested in one of the users, she select the “add to contact” button to start a conversation. **[Abigail's Story]**
- A few weeks after registration and setting up a profile, Cathy logs into the app and feels slightly disappointed that only a few people texts her. She thinks it might be probably because she says in the profile that she is a computer science student, so others might feel that she is too busy to date. She clicks the “edit profile” button and changes the information about her major in the profile from "computer science" to “don't want to share”. She clicks the save button to save her changes of her profile. **[Giana's Story]**
- Cathy wants to date but she doesn't have many opportunities to meet people. She decides to get a dating app and meet people she is compatible. After talking to a few people with similar interests and are looking for similar things in a relationship as her, she goes on a date with one of them. Cathy has a partner and no longer feels sad when she sees couples studying together in the library. **[Victoria's Story]**
- Cathy is interested in having a romantic relationship. She accesses the dating program and creates an account. Then, she completes a questionnaire with questions regarding her

interests, personality, and personal background as well as what she's looking for in a relationship. She also chooses a compatibility level that she hopes she has with her candidates/matches. She gets a list of other users with which she has a compatibility level equal to or higher than the one she stated. She can "swipe" through these candidates and like the individuals she's interested in getting to know better. If the other person is also interested in her and likes her, they will start chatting. **[Team's Story]**

Proposed Entities for the Domain:

User:

- String userId
- String username
- String password
- String gender
- String pronouns
- String sexualOrientation
- LocalDate dateOfBirth

Profile

- List<String> interest
- List<String> personality
- List<String> lookingFor
- List<String> profilePhoto

Compatibility

- User user1
- User user2
- Float compatibility

Match

- User user1
- Float preferredCompatibility
- List<String> matches

Swipe

- String userFrom
- String userTo

Chat

- String requestID
- String approveID

- boolean approve
- String msgContent
- LocalDateTime msgTimestamp

Proposed API for the project:

- <https://www.twilio.com/docs/messaging/api>
 - o Messaging API for the chat features of our program
- <https://cloudinary.com/>
 - o Image storage API for profile pictures
- <https://documentation.onesignal.com/reference/rest-api-overview>
 - o For push notifications, messaging, and create, store, and update users.

Scheduled Meeting Times + Mode of Communication:

Meeting Time: Thursday at 8pm

Mode of Communication: Text Message, Zoom