

# CPSC 304 Project Cover Page

Milestone #: 3

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Group Number: 41

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By typing our names and student numbers in the above table, we certify that the work in the attached assignment was performed solely by those whose names and student IDs are included above. (In the case of Project Milestone 0, the main purpose of this page is for you to let us know your e-mail address, and then let us assign you to a TA for your project supervisor.)

In addition, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Department of Computer Science and the University of British Columbia

# Milestone 3

## 2) Summary

This application is a social matchmaking platform that uses personality assessments to connect individuals seeking compatible partners. Users complete standardised surveys to derive their personality traits, which are then analysed to generate compatibility scores and facilitate meaningful matches. The app also features a messaging system and a unique marriage pact option, where users commit to marrying if both remain single by the age of 40. Built using a tech stack of Node.js, React, and MySQL, the application aims to create lasting connections based on shared values and compatibility.

## 3) Timeline and Task Breakdown:

### Week 1 (Oct 27 - Nov 2)

#### Database Setup and Queries

##### Database Tasks:

- Set up Oracle database

##### SQL Create Tables: **Jake**

1. Write SQL query to create the Mail table
2. Write SQL query to create the User\_Profile\_Mailbox\_Pact\_Personality table
3. Write SQL query to create HomoMaleUser, HomoFemaleUser, HeteroMaleUser, HeteroFemaleUser table
4. Write SQL query to create MatchesWith table
5. Write SQL query to create UserAnswer table
6. Write SQL query to create Question table

##### SQL Insert Queries: **Fegico**

7. Write SQL query to insert row into Mail table
8. Write SQL query to insert row into User\_Profile\_Mailbox\_Pact\_Personality table
9. Write SQL query to insert row into HomoMaleUser, HomoFemaleUser, HeteroMaleUser, HeteroFemaleUser table

Terence, Fegico, Jake

10. Write SQL query to insert row into MatchesWith table
11. Write SQL query to insert row into UserAnswer table
12. Write SQL query to insert row into Question table

SQL Delete Queries: **Terence**

13. Write SQL query to delete row from Mail table
14. Write SQL query to delete row from User\_Profile\_Mailbox\_Pact\_Personality table
15. Write SQL query to delete row from HomoMaleUser, HomoFemaleUser, HeteroMaleUser, HeteroFemaleUser table
16. Write SQL query to delete row from MatchesWith table
17. Write SQL query to delete row from UserAnswer table
18. Write SQL query to delete row from Question table

SQL Search Queries: **Jake + Fegico**

19. Write SQL query to get a single user from User\_Profile\_Mailbox\_Pact\_Personality table
20. Write SQL query to get all mail associated with a user
21. Write SQL query to get all mail sent to a specific user
22. Write SQL query to get personality of a certain user
23. Write SQL query to determine the sexuality and gender of a certain user
24. Write SQL query to determine if a user is in a Pact
25. Write SQL query to get all matches a user has
26. Write SQL query to get the profile of a specific user
27. Write SQL query to get all users who are not yet in a pact
28. Write SQL query to get the matches of a specific users ordered in descending based on matchScore
29. Write SQL query to get all answer values a user has

SQL update Queries: **Terence**

30. Write SQL query to update row from Mail table
31. Write SQL query to update row from User\_Profile\_Mailbox\_Pact\_Personality table
32. Write SQL query to update row from HomoMaleUser, HomoFemaleUser, HeteroMaleUser, HeteroFemaleUser table
33. Write SQL query to update row from MatchesWith table
34. Write SQL query to update row from UserAnswer table
35. Write SQL query to update row from Question table

## Week 2 (Nov 3 - Nov 9) and Week 3 (Nov 10 - Nov 16)

### Backend Tasks

- Set up nodeJS server
  - **Jake**
- Create API endpoints for all database tasks numbered 1-35
  - **Fegico**
- Make sure each API endpoint sends back an error message if any of the database tasks number 1-35 fails
  - **Jake + Fegico + Terence**
- Create a User data type
  - **Terence**
- Create a Personality data type
  - **Jake**
- Create stable matching helper function to calculate a stable matching for every single user in the database
  - **Fegico**
- Create a helper function to calculate the compatibility of a user with another user
  - **Terence**
- Create a User Signup endpoint
  - **Jake**
- Create a User Logout endpoint
  - **Fegico**
- Make sure to document every API endpoint
  - **Terence**
- Create Endpoints to Manage and alter User
  - **Jake**

## **Week 4 (Nov 17 - Nov 23) and Week 5 (Nov 24 - Nov 29)**

### **Frontend Tasks**

#### **Use Figma to Design Webpages: Jake + Fegico + Terence**

##### **Login/Signup Page : Jake**

- Create a login button
- Create a signup button
- Create a text field to enter your name
- Create a text field to enter your email
- Create a text field to enter your county
- Create a text field to enter your city
- Create a text field to enter your gender
- Redirect to personality test page after a successful signup

##### **Mailbox Page : Fegico**

- Create a list UI mail element buttons displaying preview of mail
- Each button will display the respective mail contents as a popup element
- Create a "Write email" button
  - When clicked it shows a send mail button
  - When clicked show a text field for the user to type their email
- Create button to go to Pact/Matches Page
- Create the refresh button to pull new messages

##### **Pact/Matches Page : Terence**

- Create a UI element to display if User is currently in a pact
- Create a UI element to display the profile of the person you're in a pact in if any
- Create a button to log out
- Create a button to go to the mailbox page

##### **Personality Survey Page : Jake + Fegico + Terence**

- Create a text element for each question
  - Each question will have slider from strongly agree to strongly disagree
- Redirect to Pact/Matches Page after survey completion

4) Milestones 1 and 2 have been added to the repository.

5) Each group member has made a commit to the repository.

6) [https://github.students.cs.ubc.ca/CPSC304-2024W-T1/project\\_b9c8r\\_k3c3v\\_n6p7i](https://github.students.cs.ubc.ca/CPSC304-2024W-T1/project_b9c8r_k3c3v_n6p7i)