

# Design Inspection, Code Inspection and Unit Testing

Team 8

Team Members: David Carr, Shivan Desai, Reid Kippenbrock, Laura Kristie, Paul Krivacka

## Design Inspection Defects

Product: Home Page Module

Date: 2/8/19

Author: Team 8

Moderator: Reid Kippenbrock

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Paul Krivacka

| Defect Number | Description   | Severity | How Corrected  |
|---------------|---|----------|--|
| 001           | The top bar does not correctly check whether or not a user is logged in | 1        | The function to check whether or not a user is logged in needs to be re-implemented in react |

Product: Navbar Module

Date: 2/8/19

Author: Team 8

Moderator: Paul Krivacka

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Paul Krivacka

| Defect Number | Description   | Severity | How Corrected   |
|---------------|---|----------|---|
| 001           | The login frontend is not correctly linked up with the database | 1        | Link the database up with the backend and create the function calls to create |

|     |  |   |  |
|-----|--|---|--|
|     |  |   | accounts, log in, and check whether or not a username exists.  |
| 002 | The login frontend doesn't submit its data to the server | 1 | Create a login handler on the server and return with the state of the login (success true or success false and a reason why) |

Product: Potential Matches Module

Date: 2/8/19

Author: Team 8

Moderator: David Carr

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: David Carr

| Defect Number | Description  | Severity | How Corrected   |
|---------------|--|----------|---|
| 1             | Potential Matches Algorithm does not check for preferred gender.                                       | 2        | Check is made in first part of potential matches algorithm for only adding matches to random selection when the gender equals the preferred gender. |
| 2             | Potential Matches are not saved in the database so new matches are generated each time the page loads. | 2        | Save the result of the findMatches function in the database and check for existing potential matches before generating new potential matches.       |
| 3             | Previous matches is not updated for both the logged in user and the users                              | 2        | Get the id for each of the potential matches so push calls can be made to the database  |

|  |          |  |                                     |
|--|----------|--|-------------------------------------|
|  | matched. |  | to update the matched users' lists. |
|--|----------|--|-------------------------------------|

Product: Personality Questionnaire Module

Date: 2/8/19

Author: Team 8

Moderator: David Carr

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Laura Kristie

| Defect Number | Description   | Severity | How Corrected  |
|---------------|---|----------|--|
| 1             | The personality questionnaire isn't linked after to the to the other pages  | 1        | Adding a button to bring up the personality questionnaire for the user.          |
| 2             | The questionnaire doesn't disappear and redirect to the correct page after a user fills it out and clicks submit. | 1        | Adding redirection to the next questionnaire after the submit button is clicked. |
| 3             | There is no button for the user to close the personality questionnaire  | 1        | Add exit button for the user to quit taking the questionnaire.                   |

Product: Coding Questionnaire Module

Date: 2/8/19

Author: Team 8

Moderator: Shivan Desai

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Laura Kristie

| Defect Number | Description  | Severity | How Corrected                                 |
|---------------|--|----------|---|
| 001           | The coding questionnaire isn't linked up to the to the | 1        | Link the coding questionnaire to other pages. |

|     |   |   |   |
|-----|---|---|---|
|     | other pages   |   |   |
| 002 | There is no button for the user to close the coding questionnaire | 1 | Add exit button for the user to quit taking the coding questionnaire. |

Product: Coding Questionnaire Module

Date: 2/8/19

Author: Team 8

Moderator: Shivan Desai

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Shivan Desai

| Defect Number | Description   | Severity | How Corrected   |
|---------------|---|----------|---|
| 003           | The questionnaire doesn't redirect to the necessary pages after the user clicks on submit | 1        | Adding redirection from the coding questionnaire to the user's profile page.                |
| 004           | The questionnaire doesn't correctly save data on the database.                            | 2        | Adding a work-around to link every questionnaire to the correct user for matching purposes. |

## Code Inspection Defects

Product: Hε>llo World Navbar Code Inspection Defects

Date: 2/8/19

Author: Team 8

Moderator: Reid Kippenbrock

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Paul Krivacka

| Defect Number | Description         | Severity | How Corrected |
|---------------|---------------------|----------|---------------|
| 001           | Navbar waits 100 ms | 3        | The           |

|     |   |   |   |
|-----|---|---|---|
|     | before properly setting the login/logout button             |   | componentDidMount( ) react function.  |
| 002 | There is no way for the navbar code to access the database  | 1 | Install the firebase node module and add the require function to the server.  |
| 003 | PageRedirect.js is hardcoded to only work for the localhost | 1 | Create the other cases to check for whether or not the page is hosted locally |

Product: Potential Matches Module

Date: 2/8/19

Author: Team 8

Moderator: David Carr

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Reid Kippenbrock

| Defect Number | Description   | Severity | How Corrected   |
|---------------|---|----------|---|
| 1             | mainUser could be undefined in<br>mainUser =<br>db.collection("usersPQ").where("user",<br>"==", userName) | 2        | Add check for undefined and return an empty array in that case.                     |
| 2             | Length of the top 10 matches could be 0.  | 2        | Move the check for scores.length to the top of the for loop that starts in line 93. |

Product: Personality Questionnaire Module

Date: 2/8/19

Author: Team 8

Moderator: Laura Kristie

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Laura Kristie

| Defect Number | Description  | Severity | How Corrected   |
|---------------|--|----------|---|
| 001           | The code “const questionnaireRef = firebase.database().ref('usersPQ');” is correctly accessing the database.             | 1        | Look into Firebase documentation and change how the database is accessed. |
| 002           | The code “<button type=“submit” onSubmit={this.handleSubmit}>Submit</button>” doesn’t trigger the function handleSubmit. | 1        | Change the way the function is triggered(onClick).                        |

Product: Coding Questionnaire Module

Date: 2/8/19

Author: Team 8

Moderator: Shivan Desai

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock

Recorder: Laura Kristie

| Defect Number | Description  | Severity | How Corrected   |
|---------------|--|----------|---|
| 001           | The code “const questionnaireRef = firebase.database().ref('usersCQ');” is correctly accessing the database. | 1        | Look into Firebase documentation and change how the database is accessed. |
| 002           | The code “<button type=“submit” onSubmit={this.handleSubmit}>Submit</button>” doesn’t trigger submission     | 1        | Change the way the function is triggered (onClick).                       |

Product: Profile Page Module

Date: 2/8/19

Author: Team 8

Moderator: Shivan Desai

Inspectors: David Carr, Laura Kristie, Paul Krivacka, Shivan Desai, Reid Kippenbrock  
Recorder: Shivan Desai

| Defect Number | Description   | Severity | How Corrected  |
|---------------|---|----------|--|
| 001           | The images are always stored upside-down on the data-base, resulting in the images being displayed upside-down after retrieval. | 1        | Adding code to rotate the image by 180 degrees after each retrieval. |
|               |   |          |  |

## Testing Defect Log

Product: Hello World Login Page Unit Tests

Date: 2/8/19

Author: Paul Krivacka

| Defect Number | Description   | Severity | How Corrected   |
|---------------|---|----------|---|
| 001           | Clicking the "Login" button does nothing                                | 1        | Integrated functionality from base html to the react page                           |
| 002           | Clicking the "Logout" +does nothing                                     | 1        | Add functionality to the logout button that makes it redirect back to the home page |
| 003           | The login/signup page animations have not yet been ported over to react | 3        | Convert the CSS in the html file to the react css file for the home page            |

Product: Matching Algorithm Test Cases

Date: 2/8/19

Author: David Carr

Unit tests are done by putting artificial data in the database and runner since not all modules are completed and integrated yet.

| Defect Number | Description   | Severity | How Corrected   |
|---------------|---|----------|---|
| 001           | Test Cases 42-44 fail because the algorithm did not take into account the coding questionnaire answers. | 2        | Integrated the coding questionnaire answers into the algorithm. |

Product: Personality Questionnaire Unit Tests

Date: 2/8/19

Author: Laura Kristie

| Defect Number | Description  | Severity | How Corrected   |
|---------------|--|----------|---|
| 001           | Data does not appear in the database after the questionnaire is submitted.   | 1        | Correctly implement code to write to the database.  |
| 002           | The user clicks the exit button and no dialog box appears to prompt the user with their options.                                     | 2        | Add dialog box with options when a user tries to leave to personality questionnaire.        |
| 003           | The user tries to submit the questionnaire without filling out the questionnaire in full and no dialog box appears to warn the user. | 1        | Add warning dialog box and checks when user doesn't fill out all the personality questions. |

Product: Coding Questionnaire Unit Tests

Date: 2/8/19

Author: Laura Kristie



| Defect Number | Description   | Severity | How Corrected  |
|---------------|---|----------|--|
| 001           | Data does not appear in the database after the coding questionnaire is submitted.   | 1        | Correctly implement code to write to the database.                                     |
| 002           | The user clicks the exit button and no dialog box appears to prompt the user with their options(saving or exiting).                         | 2        | Add dialog box with options when a user tries to leave to coding questionnaire.        |
| 003           | The user tries to submit the coding questionnaire without filling out the questionnaire in full and no dialog box appears to warn the user. | 1        | Add warning dialog box and checks when user doesn't fill out all the coding questions. |

Product: Potential Matches Page

Date: 2/8/19

| Defect Number | Description  | Severity | How Corrected   |
|---------------|--|----------|---|
| 001           | More Potential Matches do not automatically get loaded into client when the user runs out. | 2        | A button was added to the webpage to force an update to the user list until user accounts are fully implemented   |
| 002           | The Like button does not do anything   | 1        | Until we have user accounts implemented in firebase, we cannot fully implement the like feature, instead we have a javascript function catching the event and printing to |

|     |   |   |  |
|-----|---|---|--|
|     |   |   | the console  |
| 003 | The dislike button does not do anything | 1 | Until we have user accounts implemented in firebase, we cannot fully implement the dislike feature, instead we have a javascript function catching the event and printing to the console |

Product: Webpage Navigation

Date: 2/8/19

Author: Shivan Desai

| Defect Number | Description                                   | Severity | How Corrected                   |
|---------------|---|----------|---------------------------------|
| 001           | Not all links in the Navbar link to a webpage | 3        | Added blank pages for all links |

Product: User Profile

Date: 2/8/19

Author: Shivan Desai

| Defect Number | Description  | Severity | How Corrected   |
|---------------|--|----------|---|
| 001           | The user profile does not correctly display the correct number of matches. | 3        | Until we have the matching algorithm perfected, we can not accurately display the number of matches. Instead, we have set the matches to a random number for now. |