**Test log**

In this document, I will be documenting the testing I perform during the development of the solution. I will use valid, extreme and erroneous data to ensure a wide range of testing inputs. I will also provide screen shots as evidence for the tests.

**Keys:**

Valid data

Invalid data

Extreme data

**18/02/2024**

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| **Description of test** | **Test data to be used (if required)** | **Test data type and test type** | **Expected outcome** | **Actual outcome** | **Comments and intended actions** |
| Test to see if I can register a user account with valid data | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Valid data,  Unit testing | I will be able to register a user account |  | There is an error going on with the age verification function.  The format for the age verification function was incorrect so I changed it to the correct format. |
| Retest of registering a user with valid data (1) | Same data as above | Same as above | I will be able to register a user account | A screenshot of a phone  Description automatically generated | I am successfully able to create an account with valid data. |
| Test to see if I can register a user account with extreme data | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Extreme data, unit testing | I will be able to create an account with the extreme data |  | I am successfully able to create an account with extreme data. |
| Test to see if I can register a user account with invalid data | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Invalid data, unit testing | I will not be able to create an account and will be flashed a message instead |  | I am not able to create an account with invalid data and am flashed a message. Test successful. |
| Test to see if I can register a user account with an already taken username | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Invalid data, unit testing | I will not be able to create an account and will be flashed a message instead |  | I am not able to create an account with a already existing username am flashed a message. Test successful. |
| Test to see if I can register a user account with a invalid password | A screenshot of a phone  Description automatically generated  Password = Password  Confirm password = Password | Invalid data, unit testing | I will not be able to create an account and will be flashed a message instead |  | I am not able to create an account with an invalid password. Test successful. |
| Test to see if I can register a user account with non-matching passwords | A screenshot of a phone  Description automatically generated  Password = Password1  Confirm password = Password2 | Invalid data, unit testing | I will not be able to create an account and will be flashed a message instead |  | I am not able to create an account with non-matching passwords. Test successful. |
| Test to see if I can register a user account with an extreme password | A screenshot of a phone  Description automatically generated  Password = passwor1  Confirm password = passwor1 | Extreme data, unit testing | I will be able to create an account |  | I am able to create an account with an extreme password. Test successful. |
| Test to see if I can create an account without filling in the form | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to create an account and will be flashed a message |  | The program encounters a value error because there is no data and it is trying to format non existent data.  I have moved the date of birth check so that the date of birth verification function will only be called if there is a date of birth.  A screen shot of a computer  Description automatically generated |
| Re-test to see if I can create an account without filling in the form | Same data |  | I will not be able to create an account and will be flashed a message |  | Test successful. |
| Test to see if I can login as a user | A screenshot of a phone  Description automatically generated  Password = Password1# | Valid data, unit testing | I will be able to login to user account | I am successfully logged in | Test successful. |
| Test to see if I can login as non-existent user | A screenshot of a phone  Description automatically generated  Password = Password1# | Invalid data, unit testing | I will not be able to log in |  | I encountered an error because I was trying to access the password column in the query, but if the query returns nothing then it causes an index error.  I added an if statement to first check if the query returns a result and then access it.  A black screen with white text  Description automatically generated |
| Re-test to see if I can log in as non-existent user (1) | Same data as before |  | I will not be able to log in |  | Test successful. |
| Test to see if I can log in with incorrect password | A screenshot of a phone  Description automatically generated  Password = Password | Invalid data, unit testing | I will not be able to log in |  | Test successful. |
| Test to see if I can logout as a user | Click logout button | Unit testing | I will be able to log out | I have successfully logged out | Test successful. |
| Test to see if I can register a admin account | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Valid data, unit testing | I will be able to register a admin account |  | I am calling the date of birth verification function when I am not getting a date of birth in the admin register so calling the function on nothing is causing the error.  I removed the call to the function. |
| Retest to see if I can register a admin account (1) | Same data |  | I will be able to register a admin account |  | Test successful. |
| Test to see if I can register an admin account with invalid data | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Invalid data, unit testing | I will not be able to register an admin account |  | Test successful. |
| Test to see if I can register an admin account with extreme data | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Extreme data, unit testing | I will be able to register an admin account |  | Test successful. |
| Test to see if I can register an admin account with already existing admin | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Invalid data, unit testing | I will not be able to create an admin account |  | Test successful. |
| Test to see if I can register an admin account with empty form | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to create an admin account |  | Test successful. |
| Test to see if I can login to admin account | A screenshot of a phone  Description automatically generated  Password = Password1#  Confirm password = Password1# | Valid data, unit testing | I will be able to login to admin account | I am logged in as admin | Test successful. |
| Test to see if I can login to admin account with incorrect password | A screenshot of a phone  Description automatically generated  Password = hello123 | Invalid data, unit testing | I will not be able to login |  | Test successful. |
| Test to see if I can login to non-existent admin account | A screenshot of a phone  Description automatically generated  Password = Password1# | Invalid data, unit testing | I will not be able to login |  | Test successful. |

**19/02/2024**

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| **Description of test** | **Test data to be used (if required)** | **Test data type and test type** | **Expected outcome** | **Actual outcome** | **Comments and intended actions** |
| Test to see if I can add an instructor | A screenshot of a phone  Description automatically generated | Valid data, unit testing | I will be able to add an instructor |  | Test successful. |
| Test to see if I can add an instructor with extreme data | A screenshot of a web page  Description automatically generated | Extreme data, unit testing | I will be able to add an instructor |  | Test successful. |
| Test to see if I can add an instructor with empty form | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add an instructor |  | Test successful. I have removed the parenthesis in the message flashing |
| Test to see if I can add an already existing instructor | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add an instructor |  | Test unsuccessful. I have added an already existing instructor.  The reason for this was because when I queried the table for an existing instructor, I forgot to hash the email meaning it was searching for a hashed email with a non-hashed email.  I hashed the email and then tried the query. |
| Retest to see if I can add an already existing instructor | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add an instructor |  | Test successful. |
| Test to see if I can add an instructor with invalid email | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add an instructor |  | Test successful. |
| Test to see if I can book a training session | A screenshot of a phone  Description automatically generated | Valid data, unit testing | An error will occur and it will prevent the data from being added into the database |  | I accidentally called the date verification function on the session time and not the date, so I parsed in the date to the function instead.  A screen shot of a computer code  Description automatically generated |
| Retest to see if I can book a training session | Same data | Same type | Same prediction | A black text on a white background  Description automatically generated | I accidentally queried a non existent table so I changed the query. |
| Retest to see if I can book a training session | Same data | Same type | Same prediction |  | I misspelt the session\_name in request.form.get so it was not getting anything so I fixed the spelling mistake. |
| Retest to see if I can book a training session | Same data | Same type | Same prediction |  | The test was  successful but I accidentally inserted the user id into the wrong column so I fixed it. |
| Test to see if I can book a training session on same date as current date | A screenshot of a phone  Description automatically generated | Extreme data, unit testing | I will be able to book the training session |  | Test successful but I accidentally forgot to update the select fields in the form to have the correct times so I have updated them. |
| Test to see if I can book a training session with busy instructor | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to book the training session |  | Test successful. |
| Test to see if I can book a training session with empty form | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to book the training session |  | Test unsuccessful. The form data is not being checked correctly.  I updated the if statements to check if the value is none  A screen shot of a computer program  Description automatically generated |
| Retest to see if I can book a training session with empty form | Same data | Same type | Same prediction |  | Test successful. |
| Test to see if I can cancel a session | Clicking button | Unit test | I will be able to cancel the session | The session is deleted | Test successful. |
| **Quick note: I am only performing thorough tests on the add\_training\_advice.html form because the route for training advice and the route for living advice are both the same so thorough testing is only needed on one** | | | | | |
| Test to see if I can add training advice with valid data | A screenshot of a web page  Description automatically generated | Valid data, unit testing | I will not be able to post the advice due to a Re mismatch |  | Test successful. |
| Test to see if I can add training advice with invalid data | A screenshot of a exercise book  Description automatically generated | Invalid data, unit testing | I will not be able to post the advice |  | Test successful. |
| Test to see if I can add training advice with already existing title | A screenshot of a chat  Description automatically generated | Invalid data, unit testing | I will not be able to post the advice |  | Test successful. |
| Test to see if I can add training advice with extreme data | A screenshot of a phone  Description automatically generated | Extreme data, unit testing | I will be able to post the advice. |  | Test successful. |
| Test to see if I can add training advice with empty form | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to post the advice |  | Test successful. |
| Test to see if I can add health living advice with valid form | A screenshot of a phone  Description automatically generated | Valid data, unit testing | I will be able to post the living advice |  | Test successful. |

**20/02/2024**

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| **Description of test** | **Test data to be used (if required)** | **Test data type and test type** | **Expected outcome** | **Actual outcome** | **Comments and intended actions** |
| Test to see if the load more button works | Click load more button | Unit test | There will be more content loaded on the page | A screenshot of a computer  Description automatically generated | Test successful. |
| Test to see if the more information button works | Click more information button on any advice | Unit test | I will be redirected to the more info page | A close up of a text  Description automatically generated | Test successful. |
| Test to see if I can enter payment information with valid data | A screenshot of a phone  Description automatically generated | Valid data, unit testing | I will not be able to add information due to a regular expression error | A black text on a white background  Description automatically generated | I misspelled isalpha()  I fixed the spelling mistake. |
| Retest to see if I can enter payment information with valid data (1) | Same data | Valid data, unit testing | Same prediction |  | Isalpha() does not allow for white space so I added back in the regular expression |
| Retest to see if I can enter payment information with valid data (2) | Same data | Valid data, unit testing | Same prediction |  | Test successful. |
| Test to see if I can add payment info with invalid data | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add invalid payment information |  | Test successful. |
| Test to see if I can add payment info with extreme data | A screenshot of a phone number  Description automatically generated | Extreme data, unit testing | I will be able to add extreme payment info |  | Test successful. |
| Test to see if I can add payment info with empty form data | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add empty payment information |  | Test successful. |
| Test to see if I can add payment info with already existing data | A screenshot of a phone  Description automatically generated | Invalid data, unit testing | I will not be able to add empty payment information |  | The card number is being hashed in the database and I was checking the unhashed number so the query didn’t return an existing record.  I have hashed the data and then performed the query. |
| Retest to see if I can add payment info with already existing data (1) | Same data | Same data type and test | Same prediction |  | Test successful. |