

# Test Case Planning

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## 1. Use Case 2 - <<Maintain User>>

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| <b>Test Case ID</b>     | <b>TC01 - Successful Account Creation</b>   |
| <b>Test Objective</b>   | <b>User is able to create a valid account</b>   |
| <b>Preconditions</b>    | <ul style="list-style-type: none"><li>- Username does not match any pre-existing usernames within the user database</li><li>- Valid email format is utilized</li><li>- Valid password is inputted (8 characters, letters and numbers involved)</li></ul>  |
| <b>Test steps</b>       | <ol style="list-style-type: none"><li>1. Select the "Sign Up" option</li><li>2. Enter all data fields<ol style="list-style-type: none"><li>a. First &amp; Last Name</li><li>b. Date of Birth</li><li>c. Username</li><li>d. Password</li><li>e. Email</li><li>f. Phone number</li></ol></li><li>3. Hit "Create Account"</li></ol> |
| <b>Input Values</b>     | First name, last name, date of birth, username, password, email, phone number   |
| <b>Expected results</b> | <ul style="list-style-type: none"><li>- New user is added to user database</li><li>- User is redirected to homepage with their account information displayed</li></ul>  |

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| <b>Test Case ID</b>   | <b>TC02 - Invalid Account Creation Type I</b>  |
| <b>Test Objective</b> | <b>User attempts to create an account using a duplicate username</b>   |
| <b>Preconditions</b>  | <ul style="list-style-type: none"><li>- Username already exists</li><li>- Valid email is inputted</li><li>- Valid password is inputted</li></ul> |
| <b>Test steps</b>     | <ol style="list-style-type: none"><li>1. Click "Sign Up" option</li><li>2. Enter all data fields</li></ol>                                       |

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|                         | 3. Hit "Create Account"   |
| <b>Input Values</b>     | First name, last name, DOB, duplicate username, password, email, phone number   |
| <b>Expected results</b> | <ul style="list-style-type: none"> <li>- Display an error message to the user stating that the username already exists</li> <li>- User is not redirected to the homepage</li> </ul> |

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| <b>Test Case ID</b>     | <b>TC03 - Invalid Account Creation Type II</b>   |
| <b>Test Objective</b>   | <b>User attempts to create an account using an invalid email</b>   |
| <b>Preconditions</b>    | <ul style="list-style-type: none"> <li>- Username is available</li> <li>- Password is valid</li> <li>- Email does not assume proper formatting</li> </ul>                            |
| <b>Test steps</b>       | <ol style="list-style-type: none"> <li>1. Click "Sign Up" option</li> <li>2. Enter all data fields</li> <li>3. Hit "Create Account"</li> </ol>                                       |
| <b>Input Values</b>     | First name, last name, DOB, username, password, invalid email, phone number  |
| <b>Expected results</b> | <ul style="list-style-type: none"> <li>- Display an error message to the user stating that the entered email is invalid</li> <li>- User is not redirected to the homepage</li> </ul> |

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| <b>Test Case ID</b>     | <b>TC04 - Invalid Account Creation Type III</b>  |
| <b>Test Objective</b>   | <b>User attempts to create an account using an invalid password</b>  |
| <b>Preconditions</b>    | <ul style="list-style-type: none"> <li>- Username is available</li> <li>- Password is either less than 8 characters in length, does not contain both letters and numbers, or is already linked to a pre-existing user</li> <li>- Valid email is entered</li> </ul> |
| <b>Test steps</b>       | <ol style="list-style-type: none"> <li>1. Click "Sign Up" option</li> <li>2. Enter all data fields</li> <li>3. Hit "Create Account"</li> </ol>   |
| <b>Input Values</b>     | First name, last name, DOB, username, invalid password, email, phone number  |
| <b>Expected results</b> | <ul style="list-style-type: none"> <li>- Display an error message to the user stating that the entered password is invalid and specify <i>why</i></li> <li>- User is not redirected to the homepage</li> </ul>   |

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| <b>Test Case ID</b>     | <b>TC05 - Valid Login</b>   |
| <b>Test Objective</b>   | <b>User is able to log in to an existing account</b>  |
| <b>Preconditions</b>    | <ul style="list-style-type: none"> <li>- Username links to a pre-existing user in the database</li> <li>- Password links to a pre-existing user in the database</li> </ul>              |
| <b>Test steps</b>       | <ol style="list-style-type: none"> <li>1. Click "Login" option</li> <li>2. Input Username and Password</li> <li>3. Click "Login"</li> </ol>   |
| <b>Input Values</b>     | Pre-existing username and password  |
| <b>Expected results</b> | <ul style="list-style-type: none"> <li>- User is able to sign into their existing account</li> <li>- User is redirected to homepage with their account information displayed</li> </ul> |

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| <b>Test Case ID</b>     | <b>TC06 - Invalid Login Type I</b>   |
| <b>Test Objective</b>   | <b>The user enters a username that does not correspond with a pre-existing account</b>   |
| <b>Preconditions</b>    | Entered username does not already exist in the database  |
| <b>Test steps</b>       | <ol style="list-style-type: none"> <li>1. Click "Login" Option</li> <li>2. Enter incorrect username</li> <li>3. Enter valid password</li> <li>4. Select "Login"</li> </ol>                         |
| <b>Input Values</b>     | Incorrect username, correct or incorrect password (neither case for the password will impact the outcome if the username is incorrect)   |
| <b>Expected results</b> | <ul style="list-style-type: none"> <li>- Display an error message to the user informing them that the entered username does not exist</li> <li>- User is not redirected to the homepage</li> </ul> |

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| <b>Test Case ID</b>     | <b>TC07 - Invalid Login Type II</b>  |
| <b>Test Objective</b>   | <b>The user enters the incorrect password for their username</b>   |
| <b>Preconditions</b>    | <ul style="list-style-type: none"> <li>- Username is valid and exists</li> <li>- Password is incorrect</li> </ul>  |
| <b>Test steps</b>       | <ol style="list-style-type: none"> <li>1. Click "Login" Option</li> <li>2. Enter valid username</li> <li>3. Enter incorrect password</li> <li>4. Select "Login"</li> </ol>                       |
| <b>Input Values</b>     | Correct username, incorrect password   |
| <b>Expected results</b> | <ul style="list-style-type: none"> <li>- Display an error message to the user informing them that the entered password is incorrect</li> <li>- User is not redirected to the homepage</li> </ul> |