**Test case documentation**

**1.Test Cases for Signup View:**

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| **Test Case Description** | **Test Data Test Data** | **Expected Result** | **Actual Result** | **Status** |
| **Test Valid Signup Form Submission**: | Input: Valid username, email, password1, password2, age, height, weight, goal, and plan\_type. | Successful registration (302 redirect to Home), user created in the database with correct details. | Sign up successfully | pass |
| **Test Invalid Signup Form Submission**: | Input: Passwords that do not match or invalid age (negative/zero). | Page re-renders with error messages for invalid fields. | User not able to sign up | pass |
| Test Duplicate Username Submission | Input: Username that already exists in the database. | Page re-renders with an error indicating duplicate username. | User not able to click submission until doing a change in username | pass |

**2.Test Cases for Login View:**

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| **Test Case Description** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| **Test Valid Login**: | **Input: Correct username and password.** | Successful login (302 redirect to Profile page). | User able to login | pass |
| **Test Invalid Login**: | Input: Non-existing username or incorrect password. | Page re-renders with login error message. | User not able to login until entering valid info | pass |
| Test Login with Unverified User | Input: Username of a user that hasn't verified their account. | Page re-renders with a "verify account" message. | User need to verify the account first then will be able to login | pass |

**3.Test Cases for Profile View:**

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| **Test Case Description** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| **Test Profile Data Rendering**: | Logged-in user. | Profile page displays correct BMI, goal, and plan type based on the user's data. | Profile page displays correct BMI, goal, and plan type based on the user's data. | pass |
| **Test Profile Access Without Login**: | nput: Unauthenticated user attempts to access the Profile view. | Redirect to the Login page. | Redirect to the Login page. | pass |
| **Test Update Profile with Valid Data**: | Input: Valid JSON payload with updated age, height, weight, goal, and plan\_type. | Profile is updated in the database, returns success message. | User information is updated in the database and returns success message | pass |
| **Test Update Profile with Invalid Data**: | Input: Invalid JSON payload (negative/zero values for age, height, weight). | Returns 400 response with error messages. | Returns 400 response with error messages. | pass |

**4.Test Cases for Workout Plan Download:**

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| **Test Case Description** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| **Test Valid Workout Plan Download**: | input: Logged-in user with a valid plan type and goal. | Returns a PDF file with content-type application/pdf. | Returns a PDF file with content-type application/pdf. | pass |
| **Test Workout Plan Download for Unauthenticated User**: | Input: Unauthenticated user attempts to download a workout plan. | Redirect to Login page. | Redirect to Login page. | pass |
| **Test Workout Plan Download with Missing Plan Type**: | Input: Logged-in user without a defined plan\_type. | Returns an error message or a default PDF template. | Returns an error message or a default PDF template. | pass |

**5.Test Cases for Home and About Views:**

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| **Test Case Description** | **Test Data** | **Expected Result** | **Actual Result** | **Status** |
| **Test Home Page Rendering**: | Input: GET request to Home page. | Returns 200 with the Home page template rendered. | Returns 200 with the Home page template rendered. | pass |
| **Test About Page Rendering**: | Input: GET request to About page. | Returns 200 with the About page template rendered. | Returns 200 with the About page template rendered. | pass |