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| **Use Case ID** | UC - 01 |
| **Use Case Name** | Register |
| **Use Case**  **Description** | Allows Helia Users that do not have an account to create an account |
| **Participating**  **Actor(s)** | User |
| **Pre-Conditions** | 1. The User must not have an account 2. The User must not be logged in |
| **Post-Conditions** | 1. The User has created an account |
| **Normal Flow** | * 1. The User fills in his Username, Password, Email, and other personal information   2. The User uploads an image for their avatar   AF-1: The User does not upload any image   * 1. The User press the Register button   2. The System checks if the Username and Email has been taken   AF-2: The Username has been taken  AF-3: The Email has been taken   * 1. The System saves the User information into the database |
| **Alternative Flows** | AF-1: The User does not upload any image   1. The System set the Users Avatar to the default avatar   AF-2: The Username has been taken   1. The System prompts the User that the Username has been taken. 2. The User acknowledges and is taken back to 1.3   AF-3: The Email has been taken   1. The System prompts the User that the Email has been used. 2. The User acknowledge and is taken back to 1.3 |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 02 |
| **Use Case Name** | Login |
| **Use Case**  **Description** | Allows Helia Users login to their account |
| **Participating**  **Actor(s)** | User |
| **Pre-Conditions** | 1. The User must have an account 2. The User must not be logged in |
| **Post-Conditions** | 1. The User is logged in |
| **Normal Flow** | * 1. The User enters Their Username and Password   2. The User presses the Login button   3. The System checks if the Username and Password match in the database   AF-1: The Username does not exist  AF-2: The Password is incorrect   * 1. The System logs the user in |
| **Alternative Flows** | AF-1: The Username does not exist   1. The System prompts the User that the Username does not exist. 2. The User acknowledge and is taken back to 1.1   AF-2: The Password is incorrect   1. The System prompts the User that the Password is incorrect. 2. The User acknowledge and is taken back to 1.1 |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 03 |
| **Use Case Name** | Modify Personal Particulars |
| **Use Case**  **Description** | Allows Helia Users to modify their personal particulars and avatar |
| **Participating**  **Actor(s)** | User |
| **Pre-Conditions** | 1. The User is logged in |
| **Post-Conditions** | 1. The User information is saved |
| **Normal Flow** | * 1. The User changes any details of his particulars   2. The User click on the Upload button to upload a new image as their avatar   AF-1: The User does not upload any new image   * 1. The User presses the Save button   2. The System checks for any invalid input   AF-2: There are invalid inputs   * 1. The System save the changes made |
| **Alternative Flows** | AF-1: The User does not upload any new image   1. The System keeps their current avatar   AF-2: There are invalid inputs   1. The System prompts the User of the invalid input 2. The User acknowledge and is taken back to 1.1 |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 04 |
| **Use Case Name** | Discover Activities |
| **Use Case**  **Description** | Allows Helia Users to discover various activities to promote a healthier lifestyle |
| **Participating**  **Actor(s)** | User, External data sets |
| **Pre-Conditions** | 1. The User is logged in |
| **Post-Conditions** | 1. A list of activities will be displayed |
| **Normal Flow** | * 1. The User clicks on the Discover Activities button   2. The System checks the current weather condition, UV Index, Pollutant Standard Index and generates a list of recommended activities.   3. The System displays the activities that would be appropriate for the user   4. The User selects preferred activity   5. The User swipes right to like the Activity   AF-1: The User swipes left   * 1. The System store the information that the User likes this activity |
| **Alternative Flows** | AF-1: The User swipes left   1. The System stores the information that the user does not like this activity 2. The System removes the activity from the Users page |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 05 |
| **Use Case Name** | Exercise Tracking |
| **Use Case**  **Description** | Allows Helia Users to keep track of the exercises they’ve done |
| **Participating**  **Actor(s)** | User |
| **Pre-Conditions** | 1. The User is logged in 2. The Users GPS must be turned on |
| **Post-Conditions** | 1. Their exercise done will be saved |
| **Normal Flow** | * 1. The User selects one preferred activity between running, walking and cycling   2. The System redirects the User to the corresponding page   3. The User clicks on “Start” button to start the recording   4. The System record the start time, starting location   5. The User clicks on “End” button to end the recording   6. The System record the end time, ending location   7. The System validate the information   AF-1 The information is invalid   * 1. The System calculates and stores the total time spent, distance travelled, and calories burnt |
| **Alternative Flows** | AF-1: The information is invalid   1. The System prompts the User of the invalid information 2. The User acknowledge and is taken back to 1.3 |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 06 |
| **Use Case Name** | Maintain Body Health |
| **Use Case**  **Description** | Allows Helia Users to view their current health condition and track their food and water consumption |
| **Participating**  **Actor(s)** | User |
| **Pre-Conditions** | 1. The User is logged in 2. The User must have entered their Height, Weight and Age in their Profile |
| **Post-Conditions** | 1. The System will show the trend of the meal that the User have taken 2. The System will save the meal that the User has taken |
| **Normal Flow** | * 1. The User clicks on the Body Health button   2. The System checks for the data that the User has saved along with their Body Mass Index (BMI)   3. The System calculates the Users recommended daily calories intake and display them along with the User previously recorded meals   4. The User enters the details of his meal and clicks submit   5. The System validates the information entered   AF-1: The information is invalid   * 1. The System calculate the calories consumed and store it along with the meal information into the database into the Database   2. The System display the remaining number of calories the User can take daily |
| **Alternative Flows** | AF-1: The information is invalid   1. The System prompts the User of the invalid information 2. The User acknowledge and is taken back to 1.3 |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 07 |
| **Use Case Name** | View Workout |
| **Use Case**  **Description** | Allows Helia Users to view their recommended Workout record base on their BMI and past exercise data. |
| **Participating**  **Actor(s)** | User |
| **Pre-Conditions** | 1. The User is logged in 2. The User must have entered their Height, Weight and Age in their Profile |
| **Post-Conditions** | 1. The User will be able to view their Workout Records |
| **Normal Flow** | * 1. The User clicks on “My Workout Button”   2. The System displays the past Workouts   3. The System generates graph to track calories burnt   4. The System checks the User BMI and allocate a Workout for them |
| **Alternative Flows** | - |
| **Exceptions** | - |
| **Includes** | - |

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| **Use Case ID** | UC – 08 |
| **Use Case Name** | Venue Recommendation |
| **Use Case**  **Description** | Allows Helia Users to view recommended venue for the sports activity recommended to them. |
| **Participating**  **Actor(s)** | User, External data sets |
| **Pre-Conditions** | 1. This use case extends the UC-04 Discover Activities. It is initiated when the User wants to view recommended venue nearby. 2. The User is logged in 3. A sports activity has been recommended to the User in previous page |
| **Post-Conditions** | 1. Information about the recommended venue is displayed |
| **Normal Flow** | 1. User taps the “Recommended Venue” button on the page that displays the recommended activity 2. The system detects User’s current location 3. The system gets information about nearby available facilities/venues from external data sets from data.gov.sg. 4. The system calculates the distances from the available facilities/venues.   AF-1: If all facilities/venues are 5.0 kilometers aware from the user’s current location   1. The system displays the information of the facility/venue that has the shortest distance from the User’s current location |
| **Alternative Flows** | AF-1: The system displays a message that informs the User there is no available facilities/venues nearby. |
| **Exceptions** | - |
| **Includes** | Nil |

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| **Use Case ID** | UC – 09 |
| **Use Case Name** | Healthier Eateries Recommendation |
| **Use Case**  **Description** | Allows Helia Users to view recommended healthier eateries. |
| **Participating**  **Actor(s)** | User, External data sets |
| **Pre-Conditions** | 1. This use case extends the UC-04 Discover Activities. It is initiated when the User wants healthier eateries recommended. 2. The User is logged in |
| **Post-Conditions** | 1. A map marked with locations of the nearby healthier eateries is displayed |
| **Normal Flow** | 1. User taps the “Recommended Eateries” button on the page that displays the recommended activity 2. The system detects User’s current location 3. The system gets information about nearby healthier eateries from external data sets from data.gov.sg. 4. The system displays a map marked with locations of the healthier eateries around the User’s current location |
| **Alternative Flows** |  |
| **Exceptions** | Nil |
| **Includes** | Nil |