**Health App**

**5.02 Display Diet Analysis**

**Revision History**

| **Date** | **Revision #** | **Created By** | **Revision Notes** |
| --- | --- | --- | --- |
| 04/05/23 | Initial Draft | Sriharsha Mopidevi |  |
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**UC.5.02 Display Diet Analysis**

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| **Actor(s):** | 1. Fitness Enthusiasts 2. Dietitian/Fitness Trainer |
| **Short Description:** | Actors (Fitness Enthusiasts) can track their fitness routines and view the progress they have been making over time. They can view personalized diet analysis reports generated for them based on which they can make modifications to their fitness routines and share the same with the Actors (fitness trainers/dietitians) for consultation and informed decision-making. |
| **Preconditions:** | 1. The actor must have an account and be logged in. 2. The actor has tracked and inputted their dietary and fitness data. 3. The actor Trainer must have an account and be connected to the actor. |
| **Postconditions:** | 1. The actor can view their diet analysis report. 2. The actor can share their diet analysis report with an actor trainer. 3. The actor trainer can review the shared report and provide consultation. |
| **Frequency of Use:** | Daily or as needed |
| **Normal Flow of Events:** | |
| 1. The use case starts when the actor opens the application and logs in to their account. **[JP1: CN]** 2. The actor navigates to the Diet Analysis section in the app. **[JP2: CN]** 3. The system fetches the actor's dietary and fitness data from the database. **[JP3: DF-In]** 4. The system generates a personalized diet analysis report based on the inputted data and displays it to the actor. The report includes information on the actor's calorie intake, macronutrient ratios, and nutrient deficiencies, as well as recommendations for improving their diet. **[JP4: ExHL, DF-Out]** 5. The actor reviews the report and can make modifications to their fitness routines based on the recommendations provided. 6. If the actor wants to share the report with their connected actor (trainer), they can click on the "Share" button in the app. **[JP5: CN]** 7. The system generates a shareable link to the report and displays it to the actor. **[JP6: DF-Out]** 8. The actor can copy the link and share it with their connected actor (trainer) via email, text, or any other messaging platform. **[JP7: SI-Out]** 9. The actor (trainer) receives the shared link and clicks on it to view the report in their browser. **[JP8: SI-In]** 10. The system verifies the actor (trainer)'s entitlements to view the report. **[JP9: ET-Ex]** 11. The system displays the report to the actor (trainer) and provides them with the option to provide feedback to the actor via the app's messaging system. **[JP10: CN, DF-Out]** 12. The actor (trainer) can provide feedback and recommendations to the actor via the app's messaging system. **[JP11: SI-Out]** 13. The actor can view the feedback provided by their connected actor (trainer) and make further modifications to their fitness routines based on the recommendations. 14. The actor can navigate back to the app's home screen or continue using the app for other features, and the use case ends. **[JP12: CN]** | |
| **Alternative Flows:** | |
| *If <condition>, from Step N perform A1. ”Flow Name”:*  A1. If no diet data is available, from Step 3 perform "No Data Available":   1. The system displays a message indicating no data is available. 2. The actor is prompted to input their dietary data. | |
| **Exceptions:** | |
| *If <condition>, from Step N perform E1. ”Exception Name”:*  E1. If an error occurs while generating the report, from Step 3 perform "Error in Report Generation":   1. The system displays an error message. 2. The actor can retry or contact support. | |
| **<<Include>> Relationships:** | N/A |
| **<< Extend>> Relationships:** | N/A |
| **Business Rules:** | 1. The diet analysis report must be based on the actor's inputted data. 2. Sharing of the report with dietitians/fitness trainers must adhere to the privacy policy and user consent. |
| **Assumptions:** | 1. The actor has access to a device with internet connectivity. 2. The actor is willing to input their dietary and fitness data. 3. The actor trainer is available and connected to the actor within the application. |