## Project Design Phase-II
## Data Flow Diagram & User Stories

| Date | 03 October 2022 |
|---|---|
| Team ID | PNT2022TMID43309 |
| Project Name | Project - AI-powered Nutrition Analyzer for Fitness Enthusiasts |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.
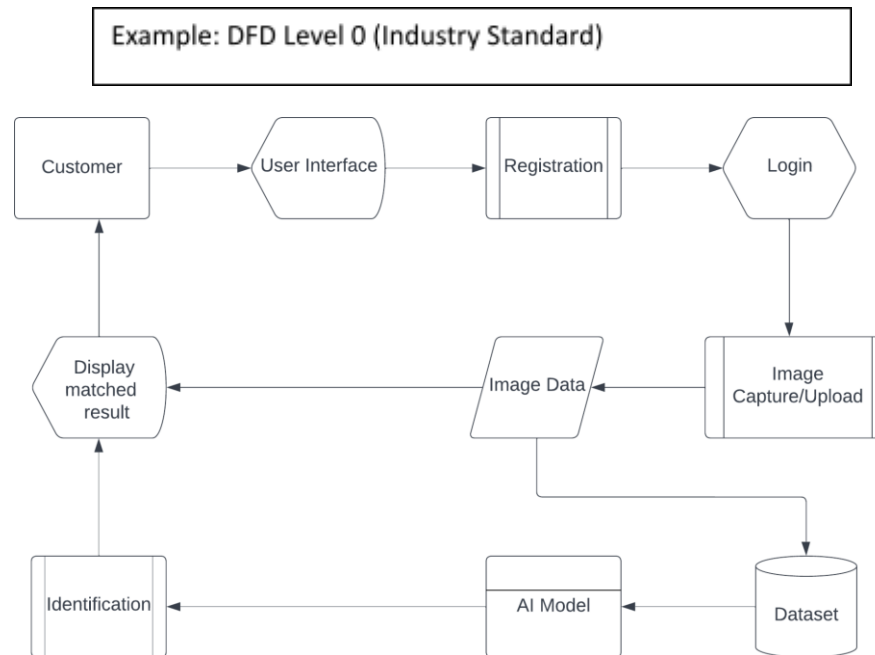
**User Stories**

Use the below template to list all the user stories for the product.

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|---|---|---|---|---|---|---|
| Customer (Mobile user) | Registration | USN-1 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard | High | Sprint-1 |
| | | USN-2 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | High | Sprint-1 |
| | | USN-3 | As a user, I can register for the application through a mobile number. | I can register & access the dashboard with my mobile number . | Medium | Sprint-2 |
| | | USN-4 | As a user, I can register for the application through OTP. | I can receive confirmation OTP & click confirm. | Medium | Sprint-2 |
| | | USN-5 | As a user, I can register for the application through my fitbit account. | I can scan the QR code for confirmation. | Low | Sprint-3 |
| | Login | USN-5 | As a user, I can log into the application by entering mobile number & password | My details are validated by receiving an OTP. | High | Sprint-1 |
| | | USN-6 | As a user, I can log into the application using my Google+. | My gmail & password is verified. | Medium | Sprint-2 |
| | | USN-7 | As a user, I can log into the application using my fitbit account | My fitbit account is verified with the device & logged in. | Low | Sprint-3 |
| | Dashboard | USN-8 | As a user, I enter my primary usage requirements. | Display my personalised contents on the dashboard | High | Sprint-1 |
| | Food Identifier | USN-9 | As a user, I capture an image using my files or camera. | Identifies the given image from the model dataset & provides necessary information. | High | Sprint-1 |
| | Diet Plan(Beginner level) | USN-10 | As a user, I check my diet plan formulated by my personalized AI nutritionist. | I can check for my likes & dislikes to follow on a daily basis. | Medium | Sprint-2 |
| | Diet Plan(Advanced level) | USN-11 | As a user, I can formulate my diet plan by myself according to the given essential nutrients. | The AI model checks whether my diet meets the required nutrient levels. | Low | Sprint-3 |

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|---|---|---|---|---|---|---|
| | Calorie Tracker | USN-12 | As a user, I can either enter the food intake manually or either through camera image capturing 5x daily. | My food intake is calculated & analysed on a daily basis. | Medium | Sprint-2 |
| | Workout Plan | USN-13 | As a user, I can choose my workout type as with/without equipment & track them on a daily or weekly basis. | My type of workout is analysed by the model & the duration is used to calculate the calorie / fat burnt analysis. | Medium | Sprint-2 |
| Customer (Web user) | Registration | USN-14 | As a user, I can register for the application by entering my email, password, and confirming my password. | I can access my account / dashboard | High | Sprint-1 |
| | | USN-15 | As a user, I will receive confirmation email once I have registered for the application | I can receive confirmation email & click confirm | High | Sprint-1 |
| | | USN-16 | As a user, I can register for the application through a mobile number. | I can receive an OTP to confirm my profile. | Medium | Sprint-1 |
| | | USN-17 | As a user, I can register for the application through OTP. | My OTP is validated and account is registered. | Medium | Sprint-1 |
| | Login | USN-18 | As a user, I can log into the website using my google account & password. | My credentials are validated and click log in | High | Sprint-1 |
| | | USN-19 | As a user, I can log into the application using my mobile number & password.. | My password is verified & I am logged into the dashboard. | Medium | Sprint-2 |
| | Dashboard | USN-20 | As a user, I enter my primary usage requirements. | Display my personalised contents on the dashboard | High | Sprint-1 |
| | Food Identifier | USN-21 | As a user, I capture an image using my files or camera. | Identifies the given image from the model dataset & provides necessary information. | High | Sprint-1 |
| | Diet Plan(Beginner level) | USN-22 | As a user, I check my diet plan formulated by my personalized AI nutritionist. | I can check for my likes & dislikes to follow on a daily basis. | Medium | Sprint-2 |
| | Diet Plan(Advanced level) | USN-23 | As a user, I can formulate my diet plan by myself according to the given essential nutrients. | The AI model checks whether my diet meets the required nutrient levels. | Low | Sprint-3 |

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|---|---|---|---|---|---|---|
| | Calorie Tracker | USN-24 | As a user, I can either enter the food intake manually or either through camera image capturing 5x daily. | My food intake is calculated & analysed on a daily basis. | Medium | Sprint-2 |
| | Workout Plan | USN-25 | As a user, I can choose my workout type as with/without equipment & track them on a daily or weekly basis. | My type of workout is analysed by the model & the duration is used to calculate the calorie / fat burnt analysis. | Medium | Sprint-2 |
| Customer Care Executive | Chatbox | USN-26 | As a user, I can approach the chatbot for usage related queries. | I can obtain responses & guidelines from it. | Medium | Sprint-2 |
| | | USN-27 | As a user, I can view a list of FAQs to get a quick solution without waiting for a reply. | My selected related query can be accessed & reviewed for clarification. | High | Sprint-2 |
| | | USN-28 | As a user, I can call or mail my customer support link for queries. | My query will be answered by a 24/7 customer support system. | High | Sprint-2 |
| Administrator | Database maintenance | USN-29 | As an administrator, I can handle all the user information & image datasets captured by the AI model. | I can ensure data safety & provide various assurity towards user security . | High | Sprint-1 |
| | Customer Service | USN-30 | As an administrator, I can answer all the user queries & solve customer issues with the application. | I have to solve a set of problems faced by the user & provide easy access for usability. | Medium | Sprint-1 |
| | Feature Maintenance | USN-31 | As an administrator , I can upgrade features & enhance usability of the user. | I need to properly test & train the model according to user dataset. | Medium | Sprint-2 |
| | | USN-32 | As an administrator, I can debug feature bugs & increase smoothness of the application. | I have to perform various test cases to identify & rectify the problem. | Medium | Sprint-2 |