Project Design Phase-II

Data Flow Diagram & User Stories

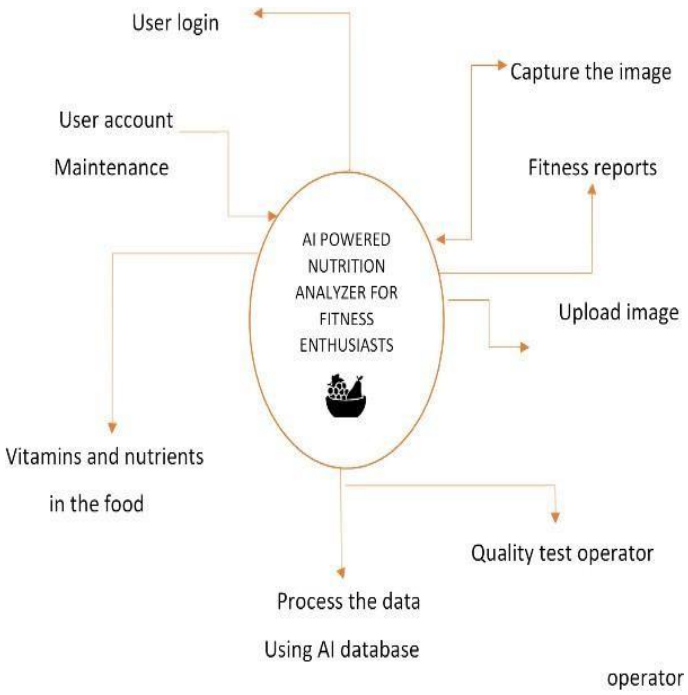
TEAM ID: PNT2022TMID16369
PROJECT NAME: AI-powered Nutrition Analyzer for Fitness Enthusiasts
TEAM LEADER: GAYATHRI PRRIYA D
TEAM MEMBERS: GAYATHRI N,POONTHAZHAI D,MONISHA S

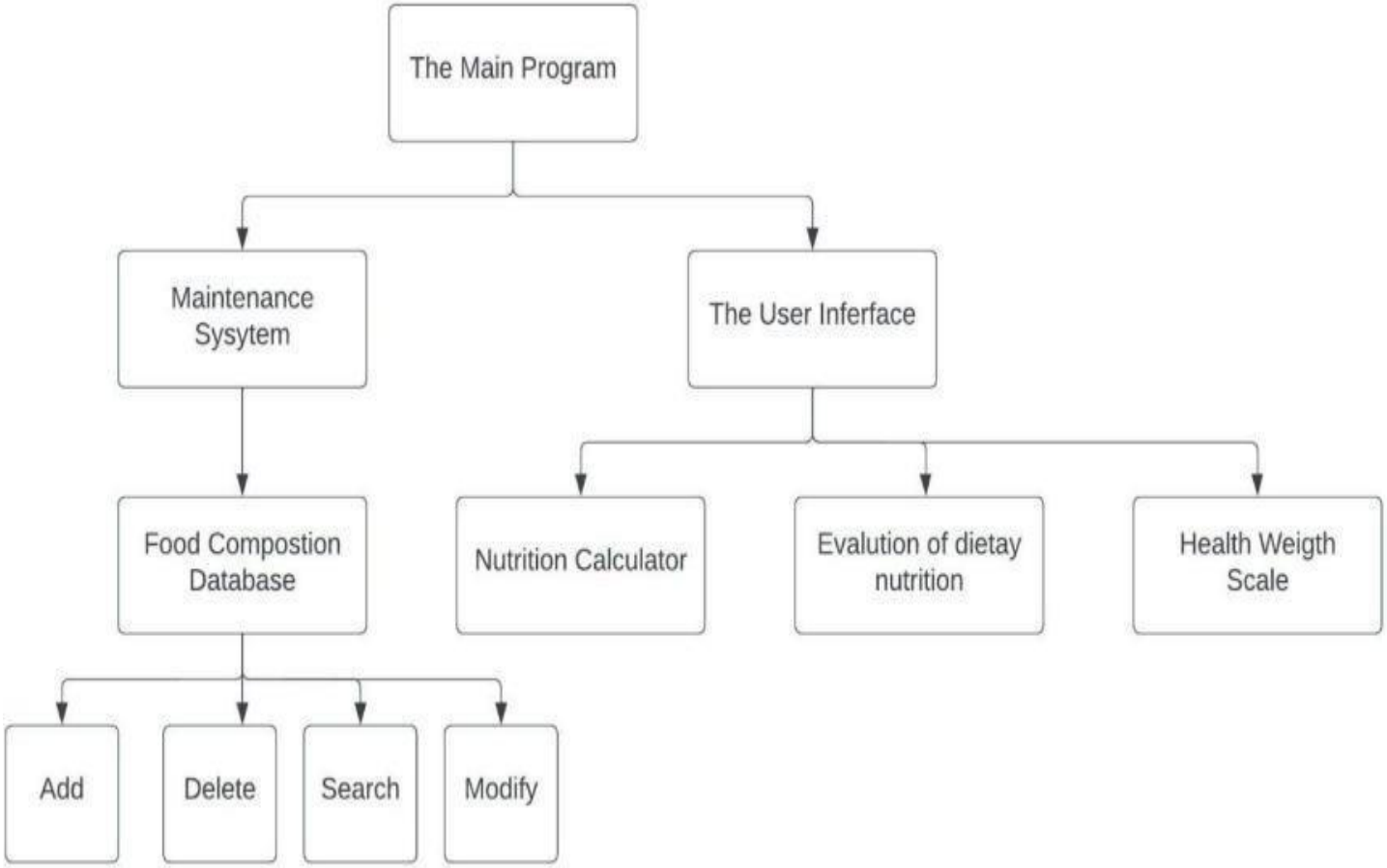
User Stories For Demand Est:

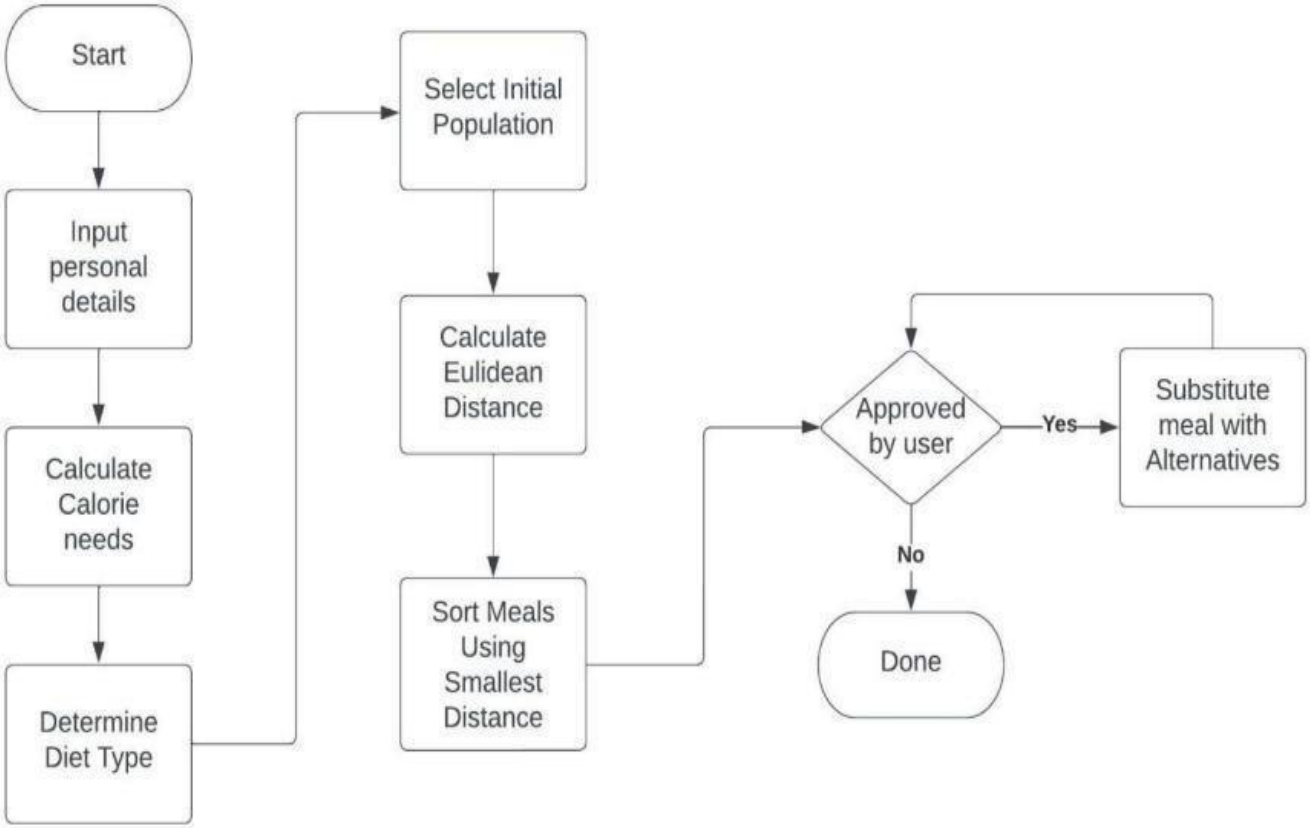
User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Customer (Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	I can access my account / dashboard.	High	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 Facebook.	I can register & access the dashboard with Facebook Login.	Low	Sprint-2
		USN-4	As a user, I can register for the application through Gmail.	I can register & access the dashboard through Gmail Login.	Medium	Sprint-1

	Login	USN-5	As a user, I can log into the application by entering email & password	I can login to the application by entering respective email & password.	High	Sprint-1
	Dashboard	USN-6	As a user, I can access all the services provided in the dashboard.	I can predict the orders for next 10 weeks and I estimate of raw materials for the same.	High	Sprint-1
Customer (Web user)	Login & Dashboard	USN-8	As a user, I can login through web application and access the resources in the dashboard.	I can login with the credentials required and I can access the services	High	Sprint-1
User Type	**Functional Requirement (Epic)**	**User Story Number**	**User Story / Task**	**Acceptance criteria**	**Priority**	**Release**
				Provided through web application.		
Customer Care Executive	Support	USN-9	As a user I can get support from the help desk and can get my queries cleared.	I can get guidance and any support to use the application.	High	Sprint-2
Administrator	Management	USN-10	As an admin I can maintain the application.	I can perform maintenance of the app even after the release.	Medium	Sprint-1
		USN-11	As an admin I can update the new datasets to the model and train them.	I can periodically update the datasets.	High	Sprint-1
		USN-12	As an admin I can update the features of the app and upgrade it to better versions.	I can perform upgrading of features and versions.	Medium	Sprint-1
		USN-13	As an admin I can maintain all the user details stored and the user's history.	I can maintain the application user's records.	High	Sprint-1

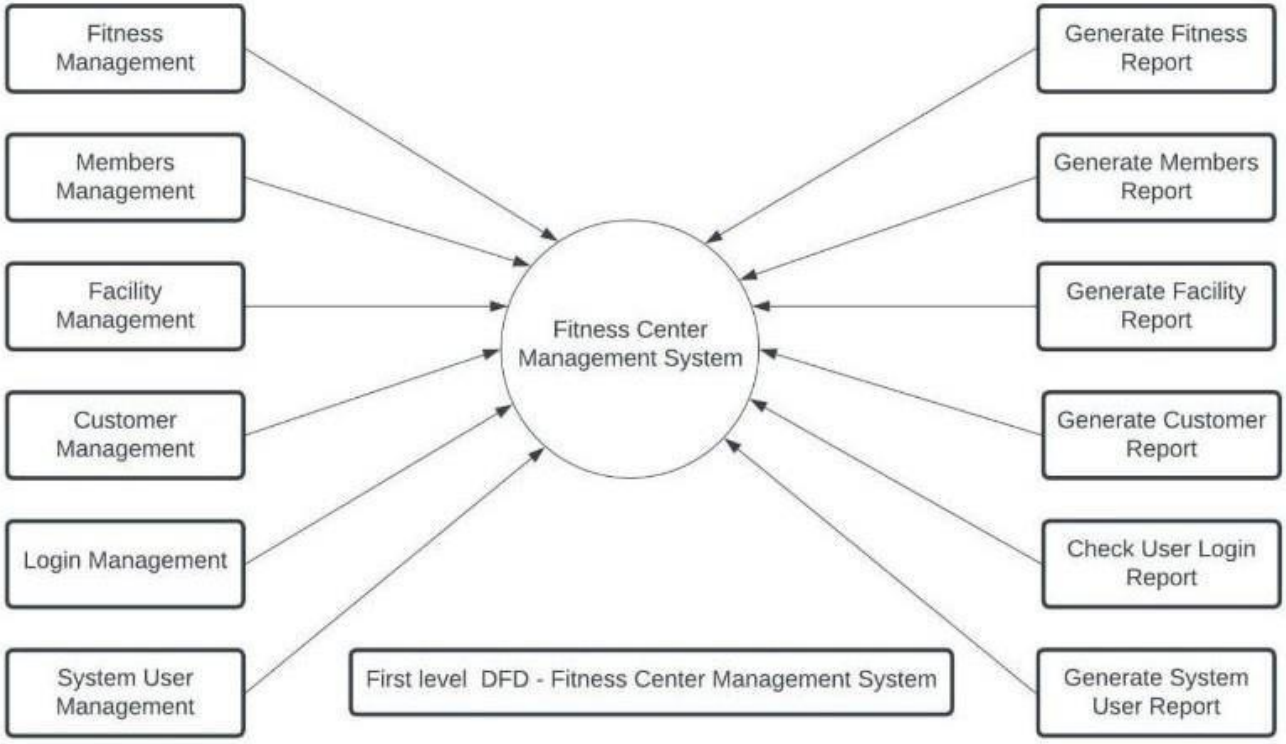
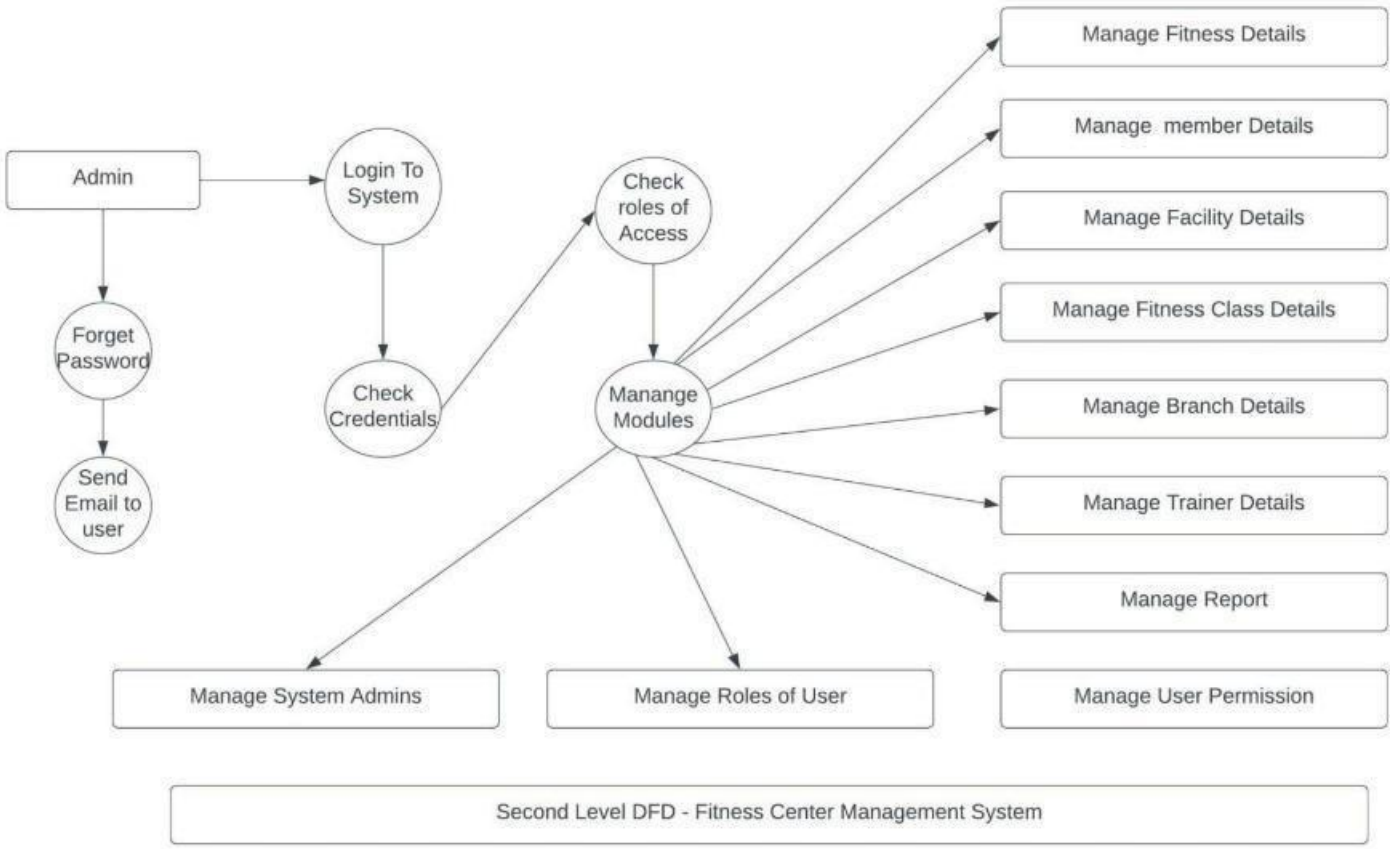
Data Flow Diagram:




The Main Program
Maintenance Sysytem
The User Inferface
Food Compostion Database
Nutrition Calculator
Evalution of dietay nutrition
Health Weigth Scale
Add
Delete
Search
Modify


Start
Input personal details
Calculate Calorie needs
Determine Diet Type
Select Initial Population
Calculate Eulidean Distance
Sort Meals Using Smallest Distance
Approved by user
Yes
Substitute meal with Alternatives
No
Done

First Level DFD:



Second Level DFD: