Problem Definition

One of the most common problems hostel students face these days is following a meal plan and maintaining a balanced diet. This is a challenge that many students face and as a result of this, they often undergo drastic physical changes in a matter of months. Often, students are unable to comprehend the nutritional value of the food that is available in the mess and end up eating unhealthily.

In lieu of this, we decided to make a smart meal planner that is flexible and caters to the individual as a college student. We take your weekly mess menu as well as your food logs and by running an AI it generates the best course of action for your day.

The available solutions for generating meal plans are based on the fact that the user is free to decide the menu of the week. Our product is customized for the mess users, giving them the much-needed assistance in planning their meals from available options.

Technology Landscape Assessment

Meal Planning AI Softwares

- Whisk's Culinary Coach Al-powered nutrition platform that provides food recommendations based on flavour preferences and avoidances
- Frélii a health tool that uses AI to build unique nutrition and health needs
- Noom A software that takes the user's exercise and food logs



Recipe AI Softwares

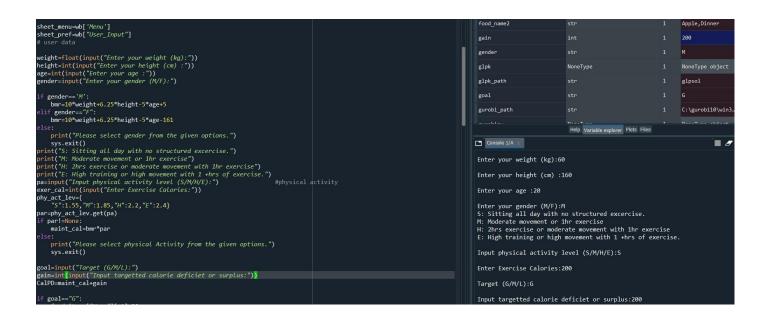
- Spoonshot Al-based app that suggests recipes based on available ingredients
- RecepiBook uses AI to recommend food recipes based on user behavior and cravings
- Gulpie uses Al to recommend Restaurants and places to eat, to suit the user's diet.



Project Plan

Tasks	START DATE	END DATE		
Project Phase 1				
Ideation and selction on final problem	29/09	11/10		
Market survey for available solutions and decide the USP	11/10	17/10		
Method to protect the USP and analyse entry barrier	17/10	23/10		
Project Monitoring Meet	23/10			
Interim Project Report	23/10	25/10		
Project Phase 2				
Conceptual Design (Model, Dataset, Language, Algorithms, Library selection and sequence diagram)	26/10	27/10		
Project Monitoring Meet	28/10			
Code Phase 1(Coding convention, User interface, Pre-processing, Output Visulisation)	28/10	05/11		
Code Phase 2(Error handling, Auto document generation, Version control, Code testing)	17/11	20/11		
Training, Validation and testing the dataset, Metrics observation)	17/11	20/11		
Project Phase 3				
Brochure development	20/11	22/11		
Marketing presentation	20/11	22/11		
1 Minute marketing video	20/11	22/11		

User Interface



Output Visualization

	limited-daily	limited-daily	limited-daily	limited-daily	limited-daily	limited-daily	limited-daily	unlimited-daily	unlimited-daily	unlimited-daily	unlimited-daily	Weekly	Weekly
	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	Breakfas
Monday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	poha	Sheera
Tuesday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	Carrot Onion Pa	Curd
Wednesday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	Mix Veg Uttapam	Sambha
Thursday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	Bans and Korma	None
riday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	Tomato Upma	Curd
Saturday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	Gobhi Paratha	None
Sunday	Milk	Juice	Banana	Boiled Egg	Egg Bhurji	Paneer Bhurji	Cereals	Bread-Butter	Peanut Butter	Jam	Sprouts	Besan Chilla	None
Monday		0	0	0	1	0	0	3	0	0	0	0 1	
Tuesday		0	0	0	0	0	0	1	2	0	0	1 1	
Wednesday		0	0	0	1	1	0	3	0	0	0	0 0	1
Thursday		0	0	0	1	1	0	3	0	0	0	0 0	i
Friday		0	0	0	1	1	0	3	0	0	0	0 0	1
Saturday		0	0	0	2	0	1	2	0	0	0	0 0)
Sunday		0	0	0	1	1	0	3	0	0	0	0 0	1
vless Plan after	analysing user of	lata											
Monday		0	0	2	0	0	0	0	3	0	0	0 0)
Tuesday		0	0	2	0	0	0	0	3	0	0	0 0)
Wednesday		0	0	1	0	0	0	0	2	0	0	0 1	
Thursday		0	0	2	0	0	0	0	3	0	0	0 0	1
		0	0	2	0	0	0	0	3	0	0	0 0)
Friday			0	2	0	0	0	0	3	0	0	0 0	1
Friday Saturday		0	U						3				

Business Plan

We aim to first implement our product in IITB Campus by collaborating with Mess caterers and assistance of Hostel Councils.

After a significant period of implementation, feedback and improvement, we will then approach various other residential campuses in India for implementation of our product in their mess facilities. After this we will aim the global market