

Final Project-Problem Statement

FitPro Inc Provides an Online Solution about Dietary plans, Nutritional Values, Fitness Suggestions and Solutions. They want their solution to be A web based solution as well as accessible on Mobile Apps. This Particular Solution We focus only on Web Based Solution. A Single page App need to be built with multiple Flows

There are two kinds of users for the app

People belonging to

- a. User group
- b. Admin Group

Implement Required API and run it on JSON Server.

- a. Details of API will be shared Host the image on the nginx server

Single Page APP

The app has two flows

Implement Logging Functionality , We use a Token based Authentication Implement Lazy Loading for Modules

User Flow:

We have to implement a routed user interface with multiple pages

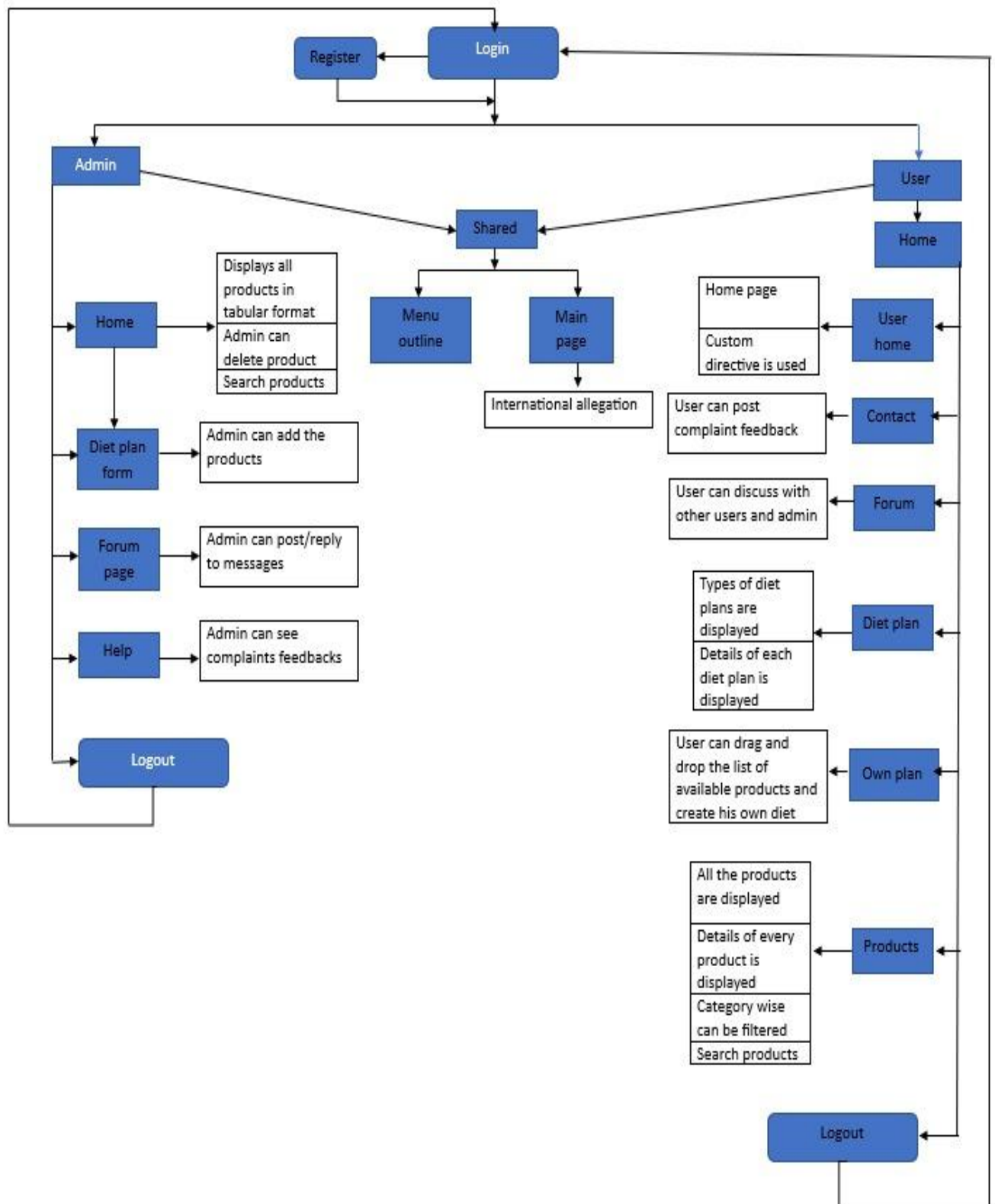
1. Page containing Search for Food Products and Their nutritional Value
2. Page Displaying Dietary Plans and Benefits
3. Building a Dietary Plan and Find in the nutritional Benefits
4. Pages to communicate with platform to ask suggestion and get Responses
5. Forum page

Admin Flow

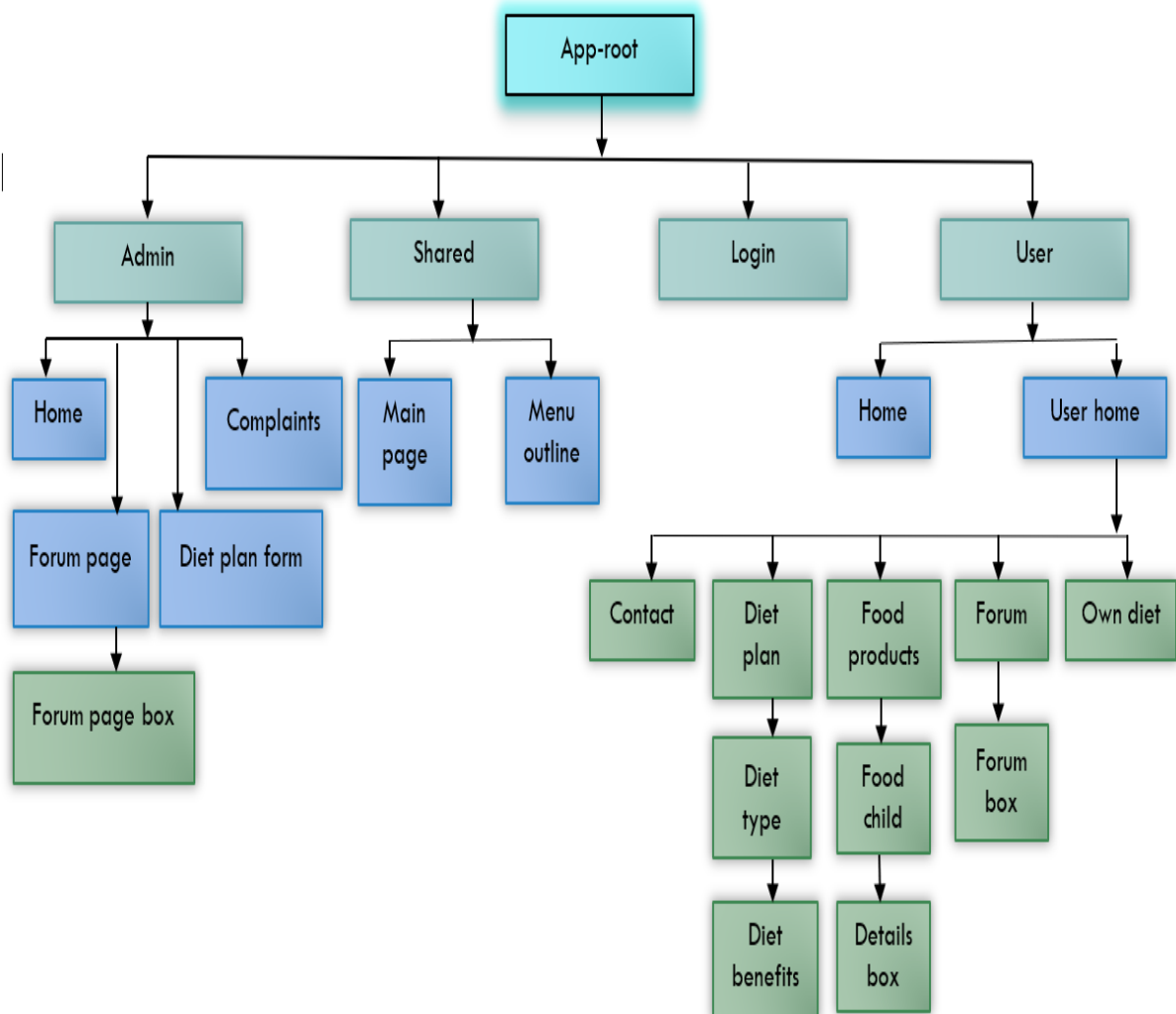
1. We Can Add Products
2. We Can Respond to Suggestions Asked

The detailed Requirements for the User Flow and Admin Flow will be shared With detailed flow diagram.

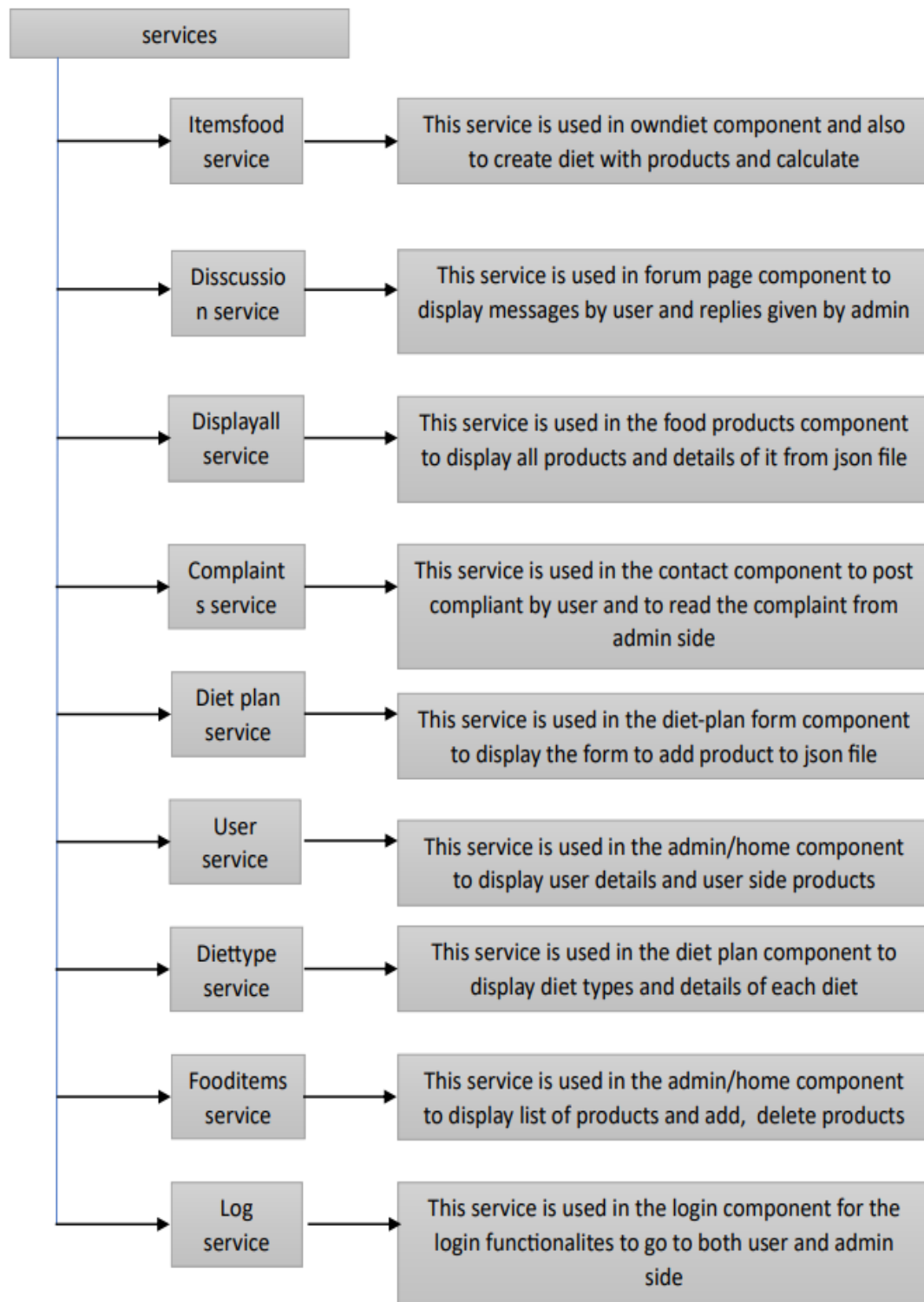
Project Workflow



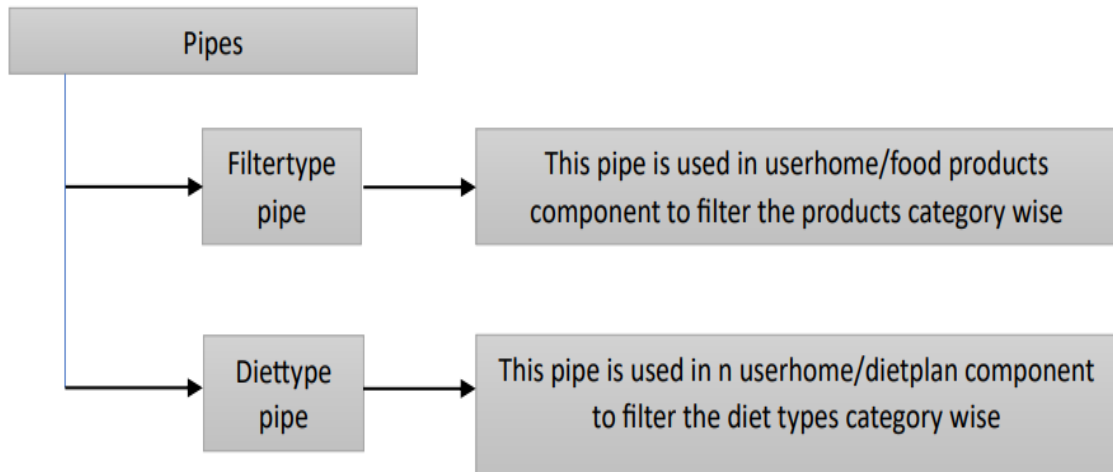
Components workflow :



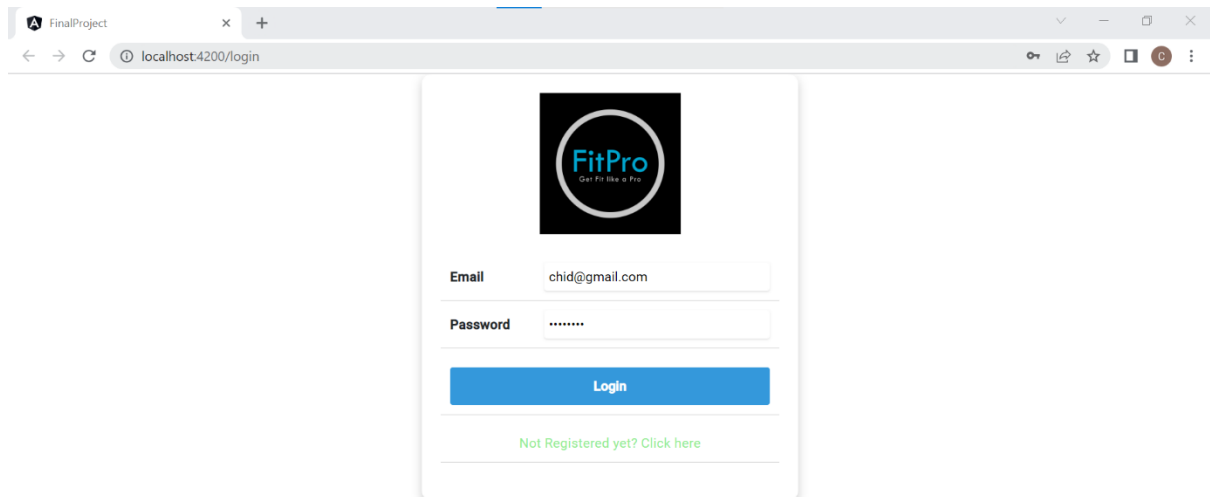
Services Workflow:



Pipes workflow:

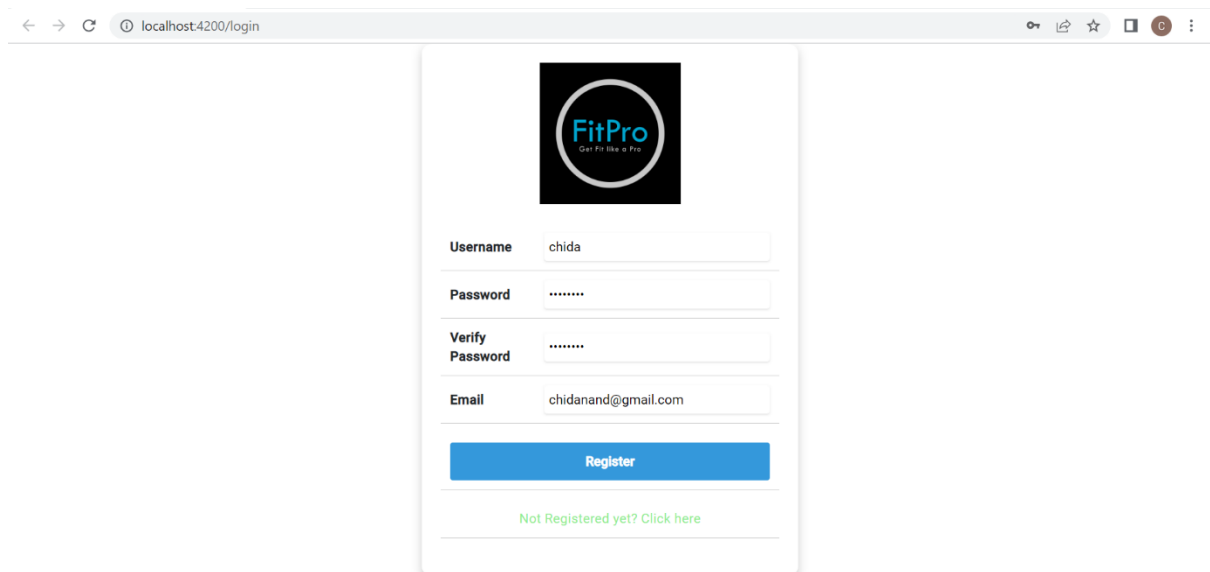


Login Page:



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/login'. The page features the FitPro logo at the top, which consists of a black circle with the text 'FitPro' in white and 'Get Fit like a Pro' in smaller text below it. Below the logo, there are two input fields: 'Email' with the value 'chid@gmail.com' and 'Password' with masked characters '.....'. A blue 'Login' button is positioned below these fields. At the bottom of the form, there is a green link that says 'Not Registered yet? Click here'.

Registration page:



The screenshot shows a web browser window with the address bar displaying 'localhost:4200/login'. The page features the FitPro logo at the top, which consists of a black circle with the text 'FitPro' in white and 'Get Fit like a Pro' in smaller text below it. Below the logo, there are four input fields: 'Username' with the value 'chida', 'Password' with masked characters '.....', 'Verify Password' with masked characters '.....', and 'Email' with the value 'chidanand@gmail.com'. A blue 'Register' button is positioned below these fields. At the bottom of the form, there is a green link that says 'Not Registered yet? Click here'.

It is the login page where we can register if we are new user

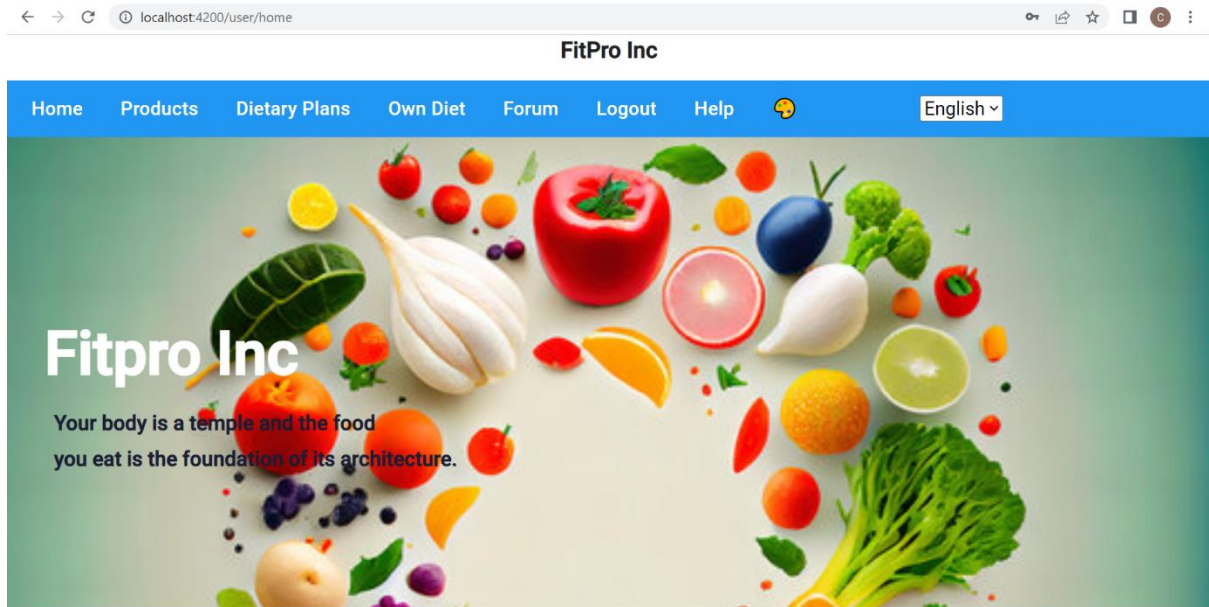
If you are already registered then you can login with the user credentials

If you want to login as admin you need to Change type from user to admin in json file

Validation also implemented in login page and register page.

User Flow:

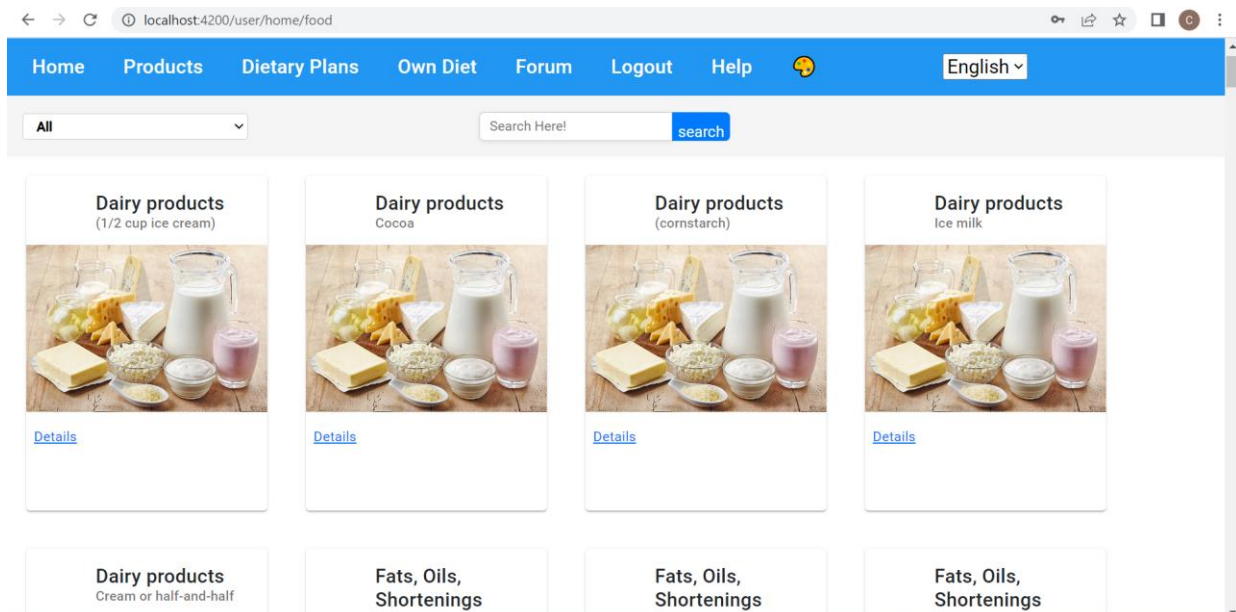
Homepage:



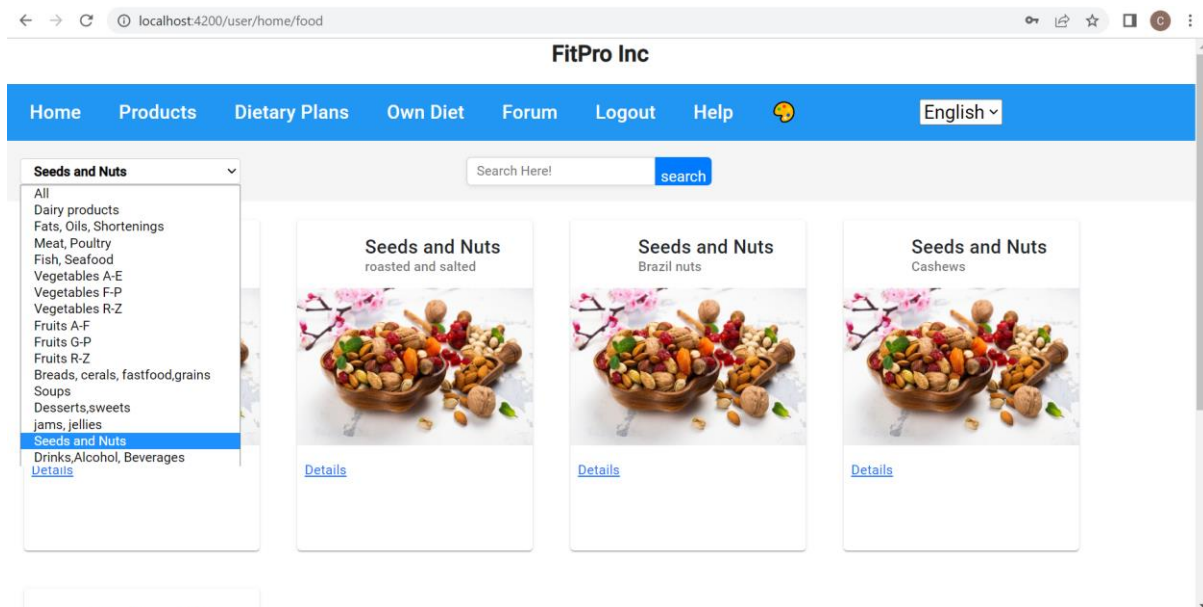
After logging in as user this homepage will appear

This homepage consists of components such as products ,dietary plans ,own diet ,forum logout option, complaints to be raised and theme changer and menubar translation

Food products:



Select category:




A homepage menu bar consists of products after clicking on that we get a products like all displayed in a page which is connected with routing

We have used pipes for filtering that category wise

we can also search whatever we required like particular product

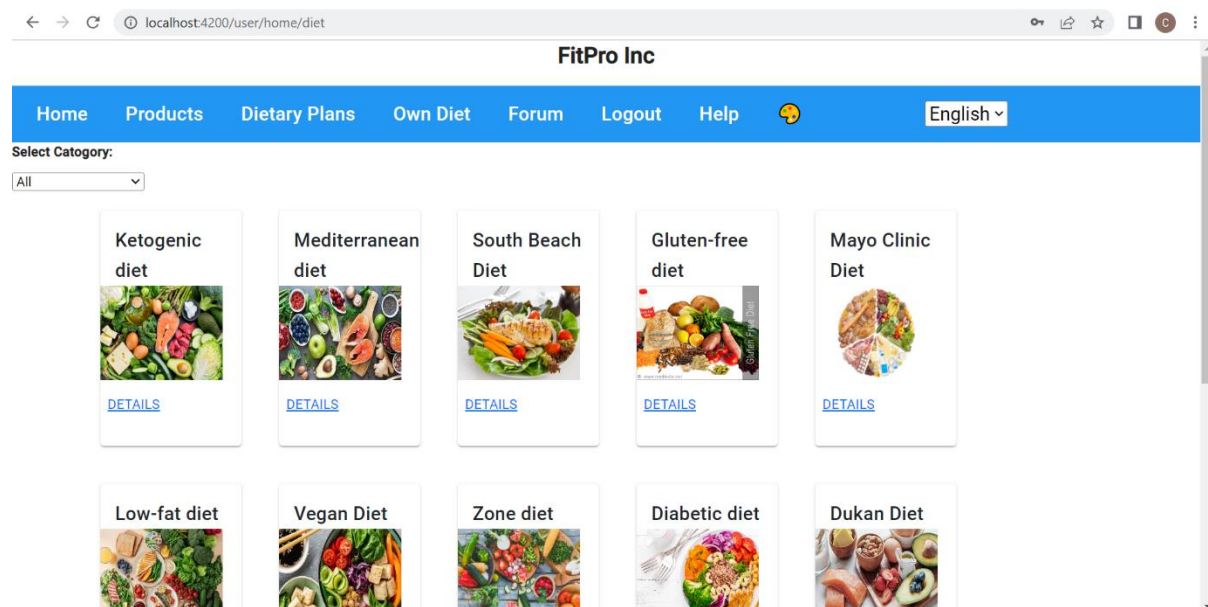
Details of product:

	Name of Product	Almonds
	Measure	1/2 cup
	Grams Quantity	70 g
	Calories	425 cal or kcal
	Protien	13 g
	Fat	38 g
	Fiber	1.8 g
	Carbs	13 g

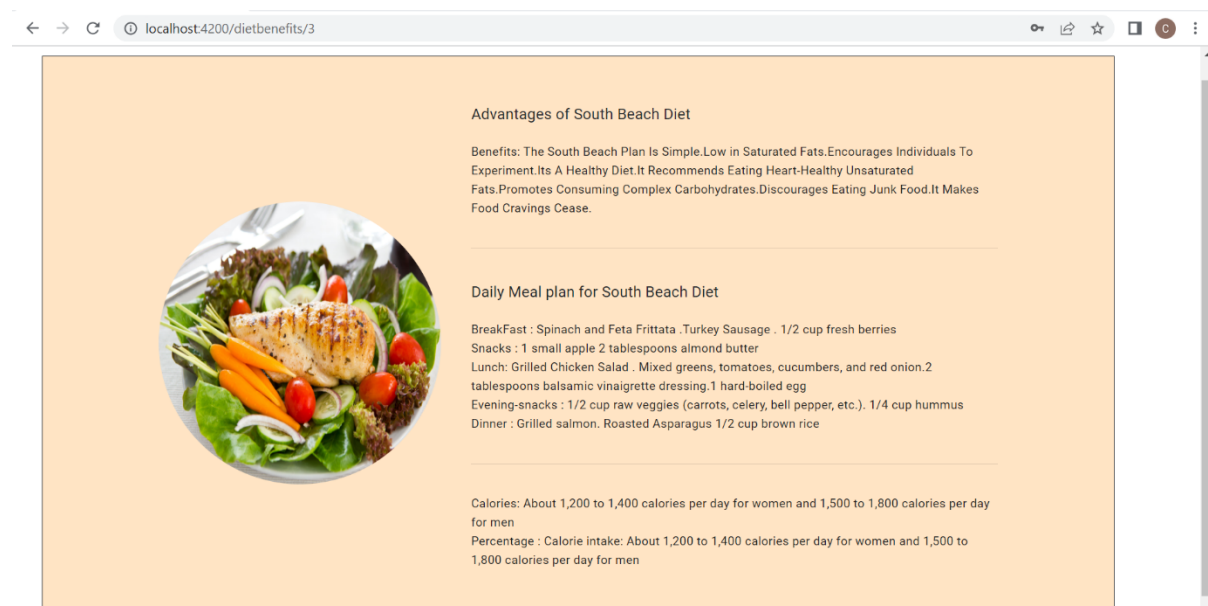
in the products page the products are displayed under which under each and every product there is a details option

after clicking on to that details button it takes to new page through routing where details of particular product is displayed

Dietary plans:



Details of product:



In home page after clicking on detail plans there is a page displayed news different types of diets are provided

On clicking details we get the details of each and every diet in which advantages of particular diet and diet meal per day according to that is included

Create your OwnDiet:

The screenshot shows a web application for creating a diet. It features two main sections: 'Available items' and 'Create Diet'.

Available items: A list of ingredients with corresponding icons and a vertical scrollbar. The items are: (1/2 cup ice cream), Cocoa, (cornstarch), Ice milk, and Cream or half-and-half.

Create Diet: A section with four input fields for quantity, each with a label 'Quantity:'. The values entered are 2, 1, 7, and 1. To the right of these fields is a blue button labeled 'Calculate Nutrition'.

Nutrition Information: A yellow box displaying the calculated values: Total Calories: 75.9, Total Fat: 2.6400000000000006g, Total Protein: 2.6400000000000006g, and Total Carbs: 7.7g.

This page a user can create his own diet by using drag and drop option

there is a list of products displayed he can drag and drop to the place where quantity is calculated

after quantity is decided he can click on the calculate nutrition button it calculates the nutrition value

Complaints:

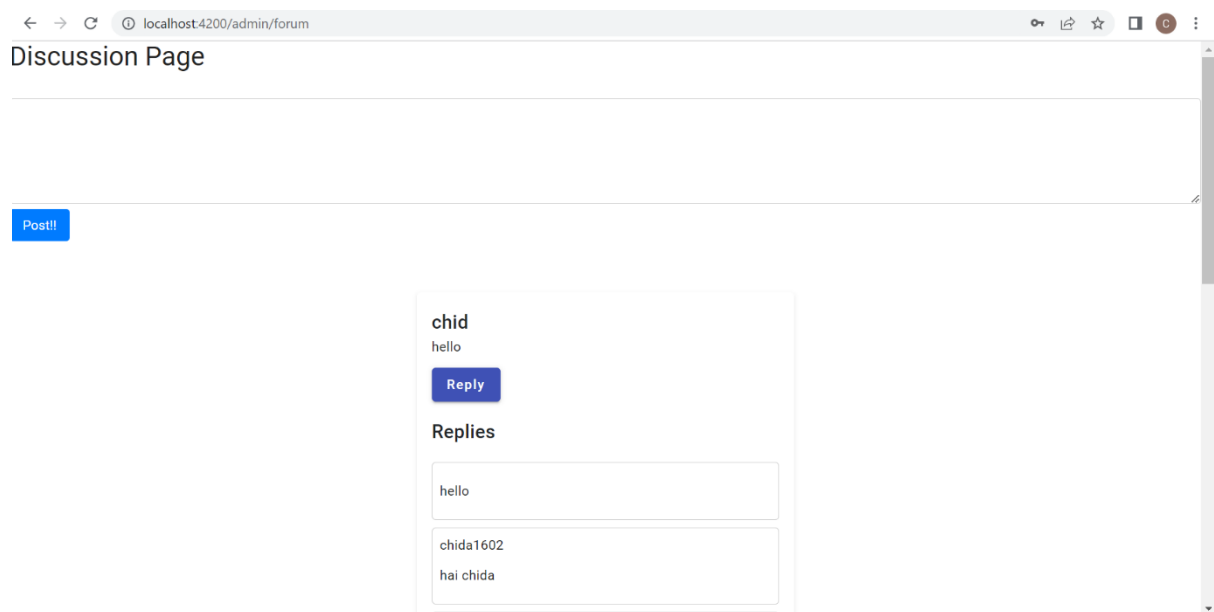
The screenshot shows a web application for posting complaints or feedback. It features a blue navigation bar at the top with links: Home, Products, Dietary Plans, Own Diet, Forum, Logout, Help, and a language dropdown set to 'English'.

The main content area is titled 'Post Your Complaint / Feedback' and contains a form with three input fields: 'Name', 'Email', and 'Message'. Below the form is a green button labeled 'Submit Enquiry'.

On clicking on help it takes to complaints page

here we can post our complaints queries and feedbacks to the website which can be seen by admin

Forumpage

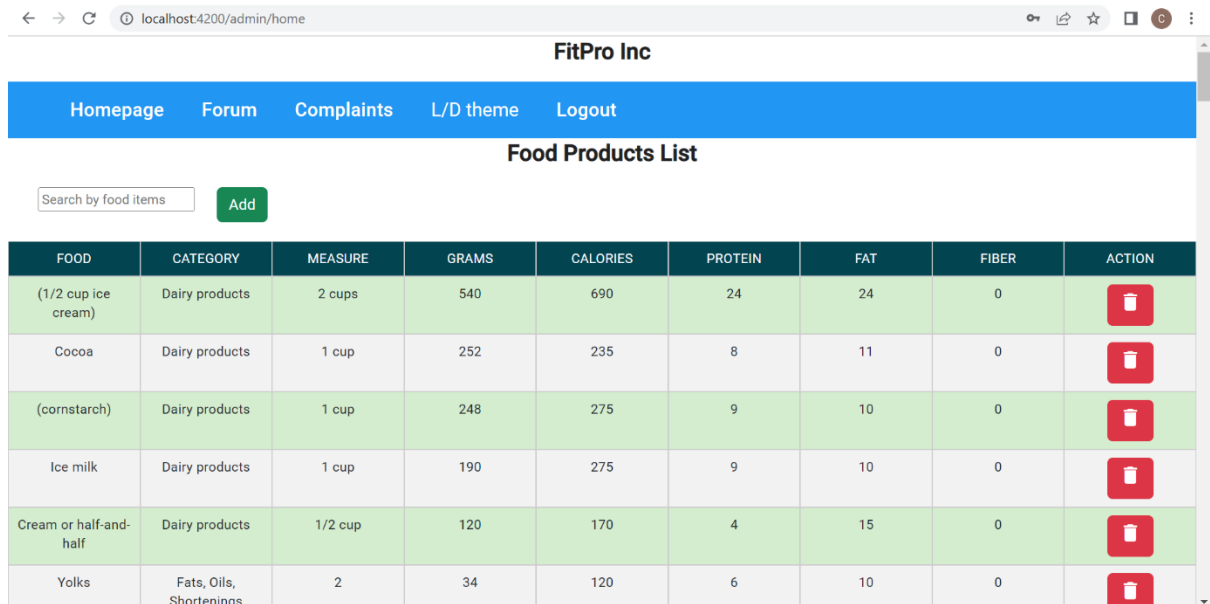


The forum is a discussion page where admin and users can interact

here a user can post his query or feedback or suggestion so that admin can reply to that

Admin flow:

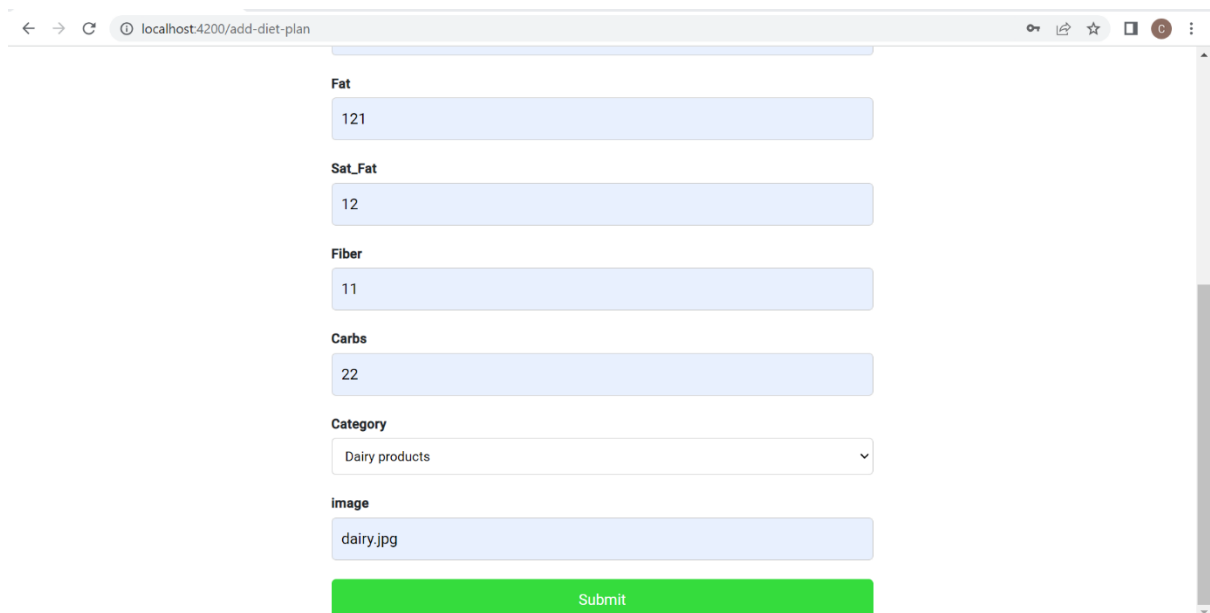
Homepage



The screenshot shows the FitPro Inc. Admin Homepage. At the top, there's a navigation bar with links: Homepage, Forum, Complaints, L/D theme, and Logout. Below this is a section titled "Food Products List". It features a search bar labeled "Search by food items" and an "Add" button. A table displays a list of food products with columns for FOOD, CATEGORY, MEASURE, GRAMS, CALORIES, PROTEIN, FAT, FIBER, and ACTION. Each row includes a red trash icon for deletion.

FOOD	CATEGORY	MEASURE	GRAMS	CALORIES	PROTEIN	FAT	FIBER	ACTION
(1/2 cup ice cream)	Dairy products	2 cups	540	690	24	24	0	
Cocoa	Dairy products	1 cup	252	235	8	11	0	
(cornstarch)	Dairy products	1 cup	248	275	9	10	0	
Ice milk	Dairy products	1 cup	190	275	9	10	0	
Cream or half-and-half	Dairy products	1/2 cup	120	170	4	15	0	
Yolks	Fats, Oils, Shortenings	2	34	120	6	10	0	

Add products



The screenshot shows the "Add Product" form. It includes input fields for Fat (121), Sat_Fat (12), Fiber (11), and Carbs (22). There is a dropdown menu for Category (currently set to "Dairy products") and a text field for image (currently set to "dairy.jpg"). A green "Submit" button is at the bottom.

After logging as admin with admin credentials takes to a home page where all food products is displayed in a table

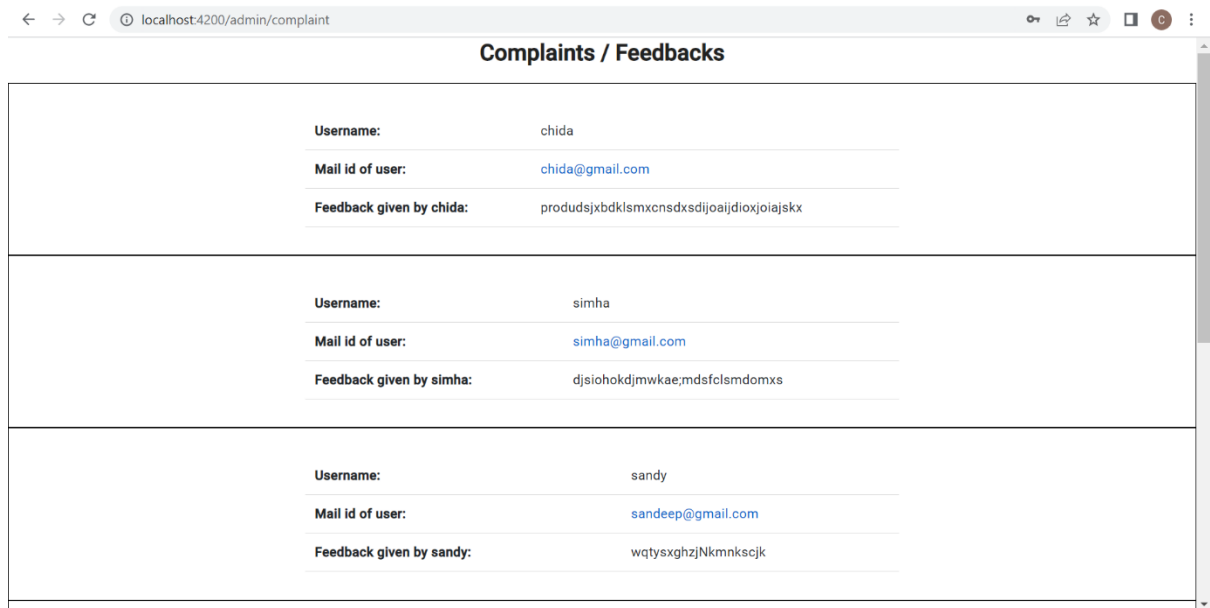
here admin can add and delete the products

admin can Search the products in the search bar

clicking on add it takes to form page where we can fill the details of the product

in that page we used the **model based form with validation**

complaints page:

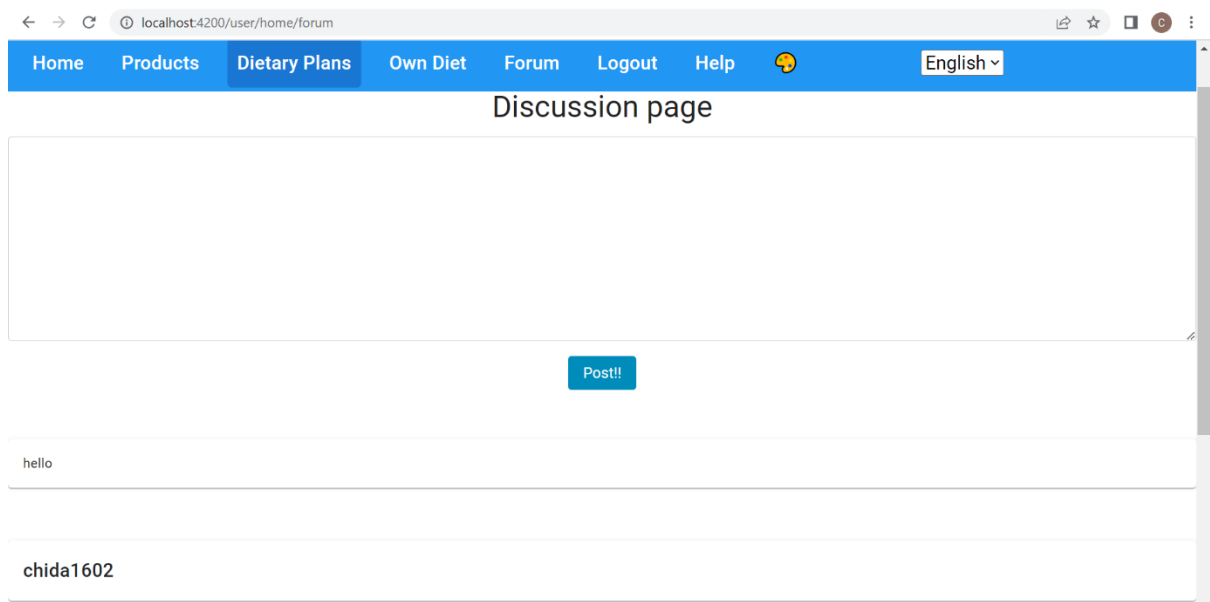


Complaints / Feedbacks	
Username:	chida
Mail id of user:	chida@gmail.com
Feedback given by chida:	produsjxbdklsmxcnsdxsdijoaiddioxjoiajskx
Username:	simha
Mail id of user:	simha@gmail.com
Feedback given by simha:	djsiohokdjmwkae;mdsfclsmdomxs
Username:	sandy
Mail id of user:	sandeep@gmail.com
Feedback given by sandy:	wqtysxghzjNkmmkscjk

In admin side menu bar consists of complaints on clicking it takes to a page where complaints and feedbacks were displayed which was posted by user

here admin can read the complaints and reply to the user mail on clicking his mail id it will take to compose mail page

Discussion page:



Home Products Dietary Plans Own Diet Forum Logout Help English

Discussion page

Post!!

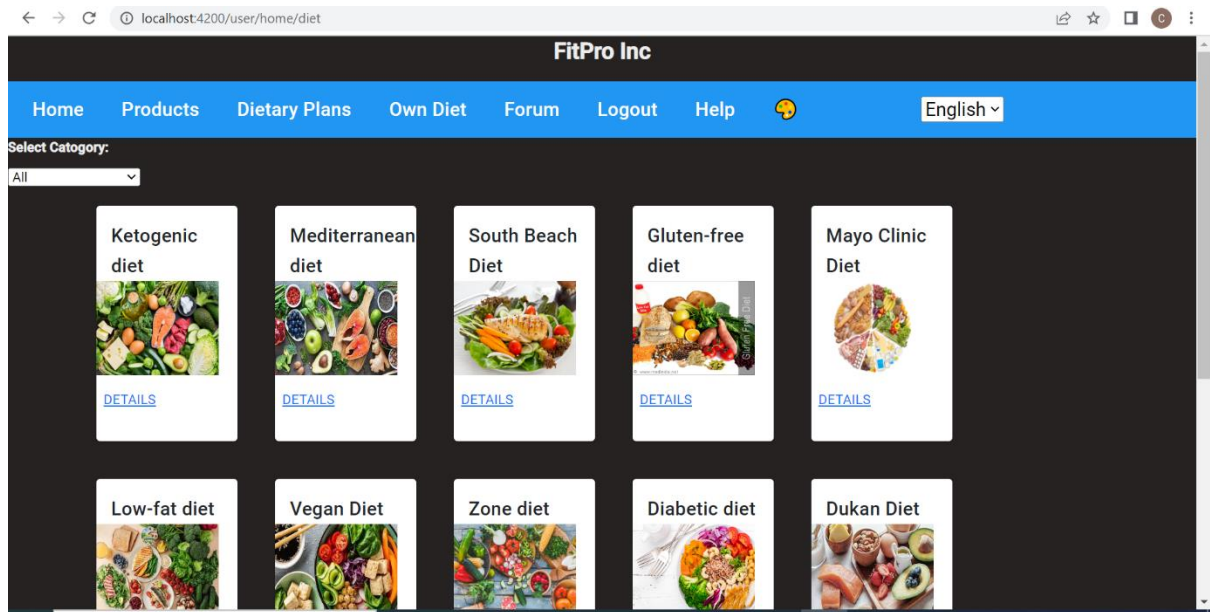
hello

chida1602

it is a discussion page where admin also can post whatever he want

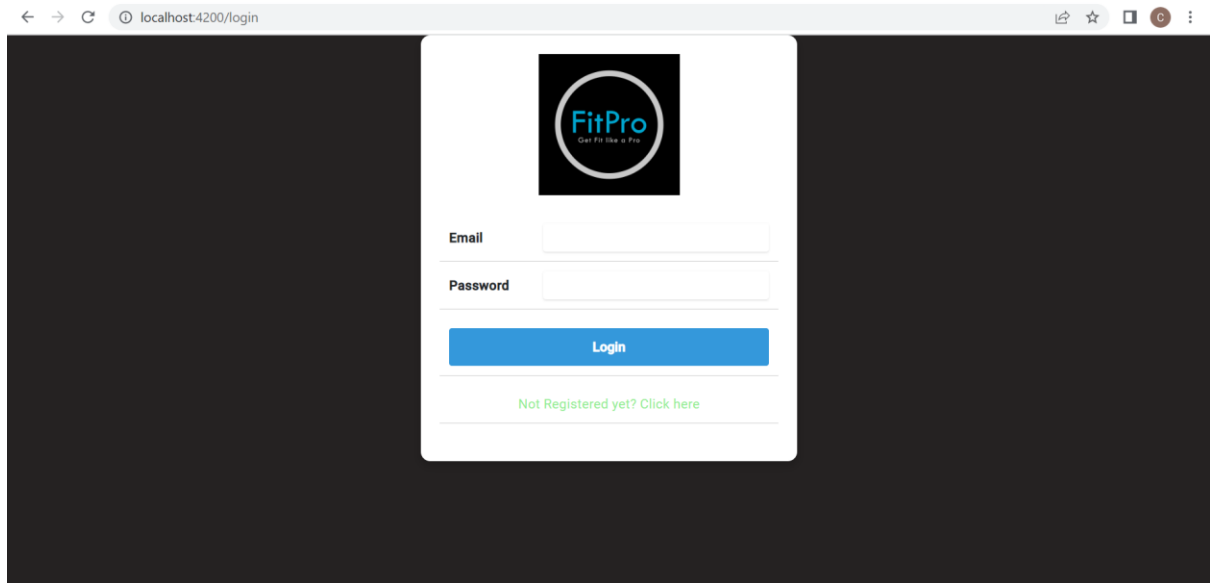
admin also can reply to the users comments

Darktheme/light Theme on both admin side,User side and login page



The screenshot shows the admin interface of the FitPro Inc application. The browser address bar indicates the URL is localhost:4200/admin/home. The page features a dark theme with a blue header bar. The header contains navigation links: Homepage, Forum, Complaints, L/D theme, and Logout. Below the header, there is a 'Food Products List' section with a search bar labeled 'Search by food items' and an 'Add' button. The main content area displays a table with the following data:

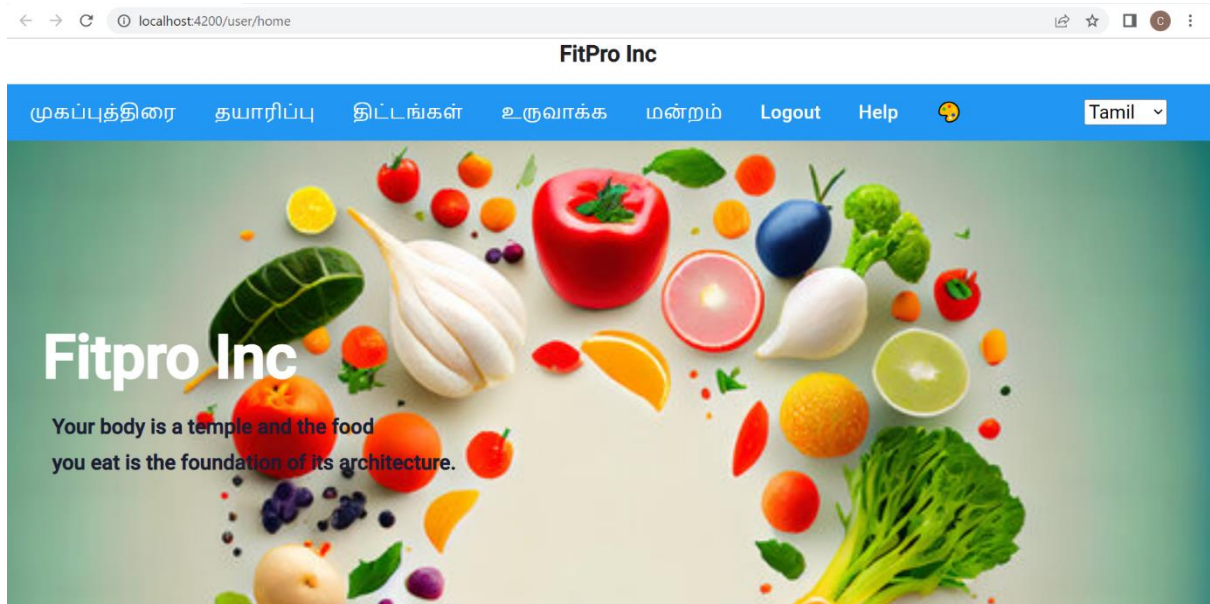
FOOD	CATEGORY	MEASURE	GRAMS	CALORIES	PROTEIN	FAT	FIBER	ACTION
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Yolks	Fats, Oils, Shortenings	2	34	120	6	10	0	



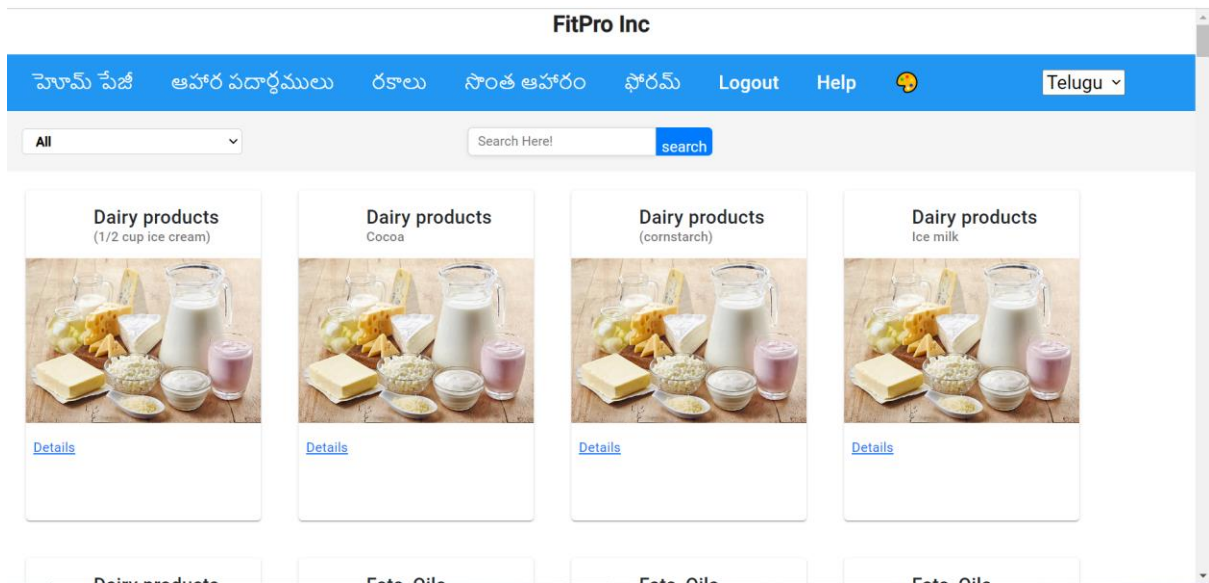
In all login page, admin and user side we can change the dark theme to light theme and from light theme to dark theme

Interanationalisation:

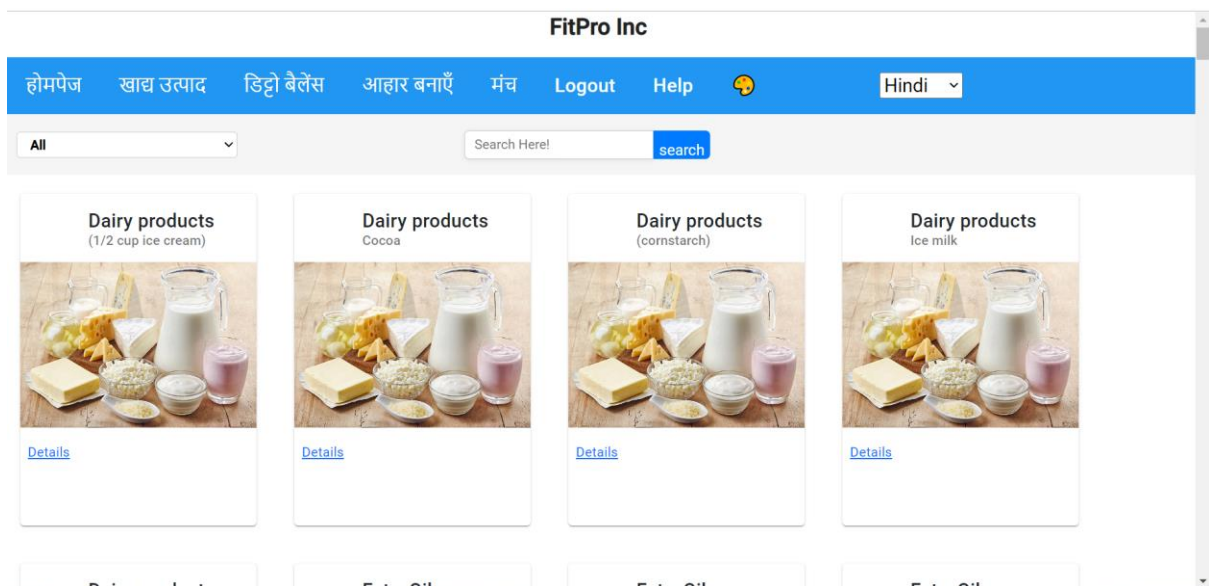
Menubar in tamil



Menubar in telugu



Menubar in Hindi



User side user side I have implemented internationalization using ngx translation there is a option that menu bar can be displayed in Telugu Hindi English and Tamil languages

Custom Directives:

```
import { Directive ,ElementRef, Input} from '@angular/core';

@Directive({
  selector: '[appCustommd]'
})
export class CustommdDirective {

  constructor(private e:ElementRef) {
    this.e.nativeElement.style.color="#fff";
  }
}
```

```
Go to component
1 <div class="banner">
2   <h1 appCustommd> <br> Fitpro Inc <br> </h1>
3   <p > Your body is a temple and the food <br> you eat is the fou
4 </div>
5
```

directive is created named as custommd

in that custommd Directive.ts I have written a function for styling an element

In user home html I have implemented H1 tag . in H1 tag I have used app custom

Here we can see that fit Pro is displayed in white colour using custom directive method



Security Implementation:

We have used the session storage for storing the registration credential details

```
sessionStorage.setItem("username", response.user.username);
sessionStorage.setItem("usertype", response.user.type);
sessionStorage.setItem("token", response.accessToken);
sessionStorage.setItem("email", response.user.email);
```

```
"users": [
  {
    "email": "anil@gmail.com",
    "password": "$2a$10$qLCzxp8bYoFl0TUnM3khkOQed/oj6p0Vi9m91/Wi1Zqn6dzwsD4Iu",
    "firstname": "Anil",
    "lastname": "Kumar",
    "id": 1
  },
  {
    "email": "rahul@gmail.com",
    "password": "$2a$10$GN3udmMj3FOG3Ya.tp5VmuBqBVwY0dYU1ro74BpVxs8xB0./Gqw8m",
    "username": "rahul",
    "lastname": "krishna",
    "type": "user",
    "id": 3
  },
  {
    "email": "roger@gmail.com",
    "password": "$2a$10$8VfL/mTrUsF7CsmFZBNCXuYKao0PM9Cr0IxTn0iqwYoKD0vwPE1AC",
    "username": "roger",
    "lastname": "Federer",
    "type": "admin",
```

Here in the login component.ts we have used session storage for registration credentials

Here the credentials like password is saved in json as token-based as shown in above picture

Logout implementation

Finally on clicking the logout option it will redirect to login page from both admin and user side.