

## 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

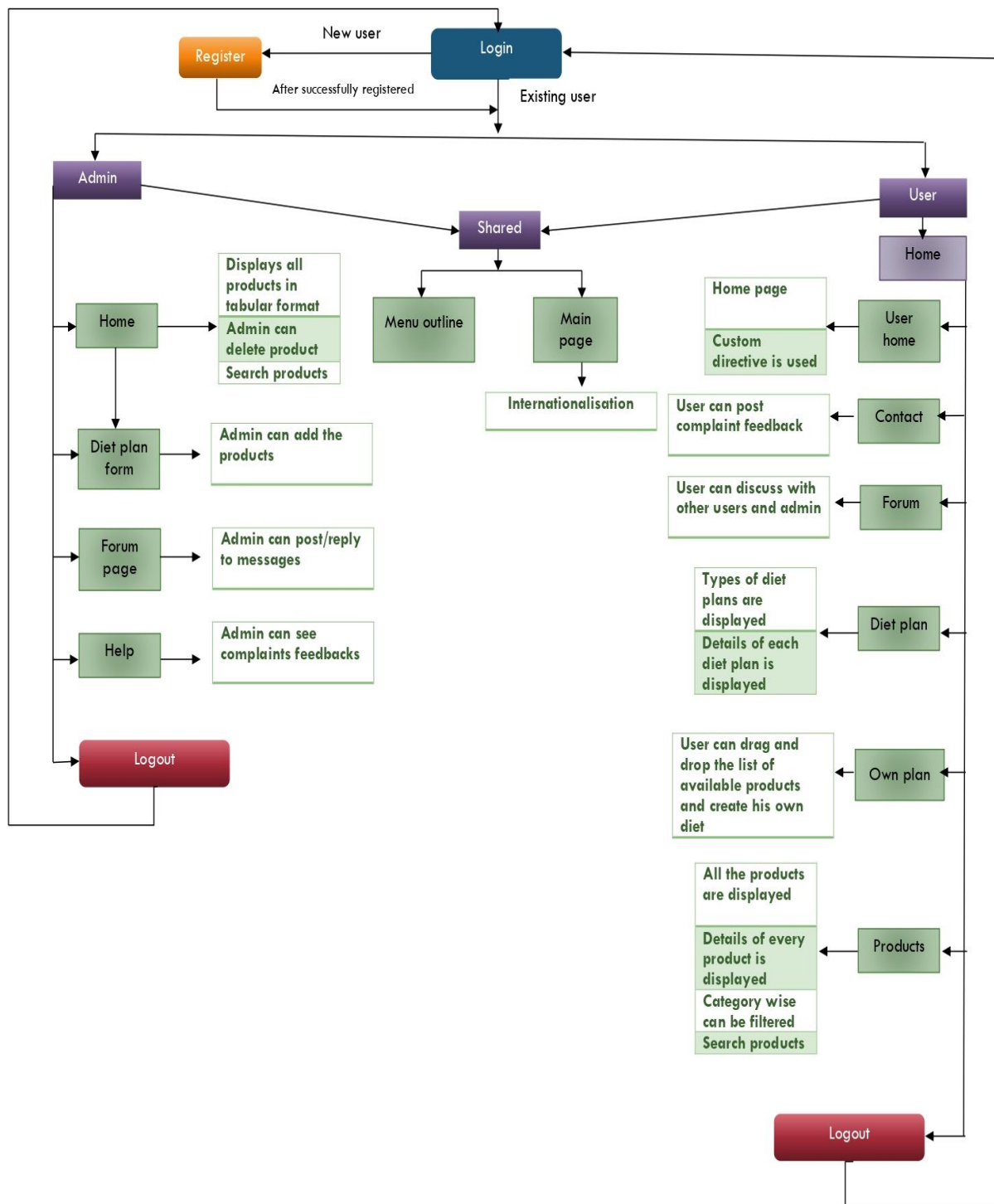
1. Page containing Search for Food Products and Their nutritional Value
2. Page Displaying Dietary Plans and Benefits
3. Building a Dietary Plan and Find in the nutritional Benefits
4. Pages to communicate with platform to ask suggestion and get Responses
5. Forum page

### Admin Flow

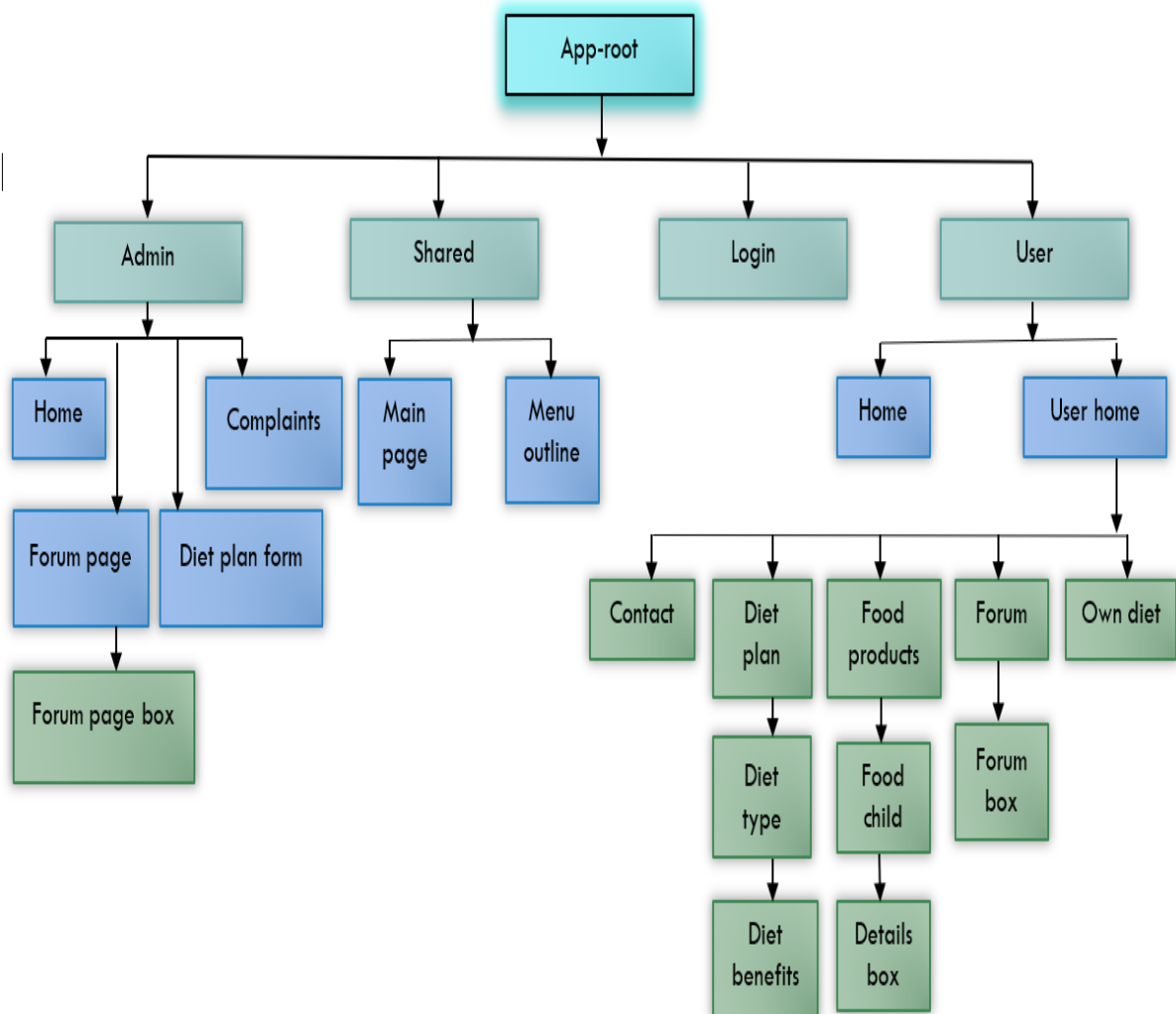
1. We Can Add Products
2. We Can Respond to Suggestions Asked

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

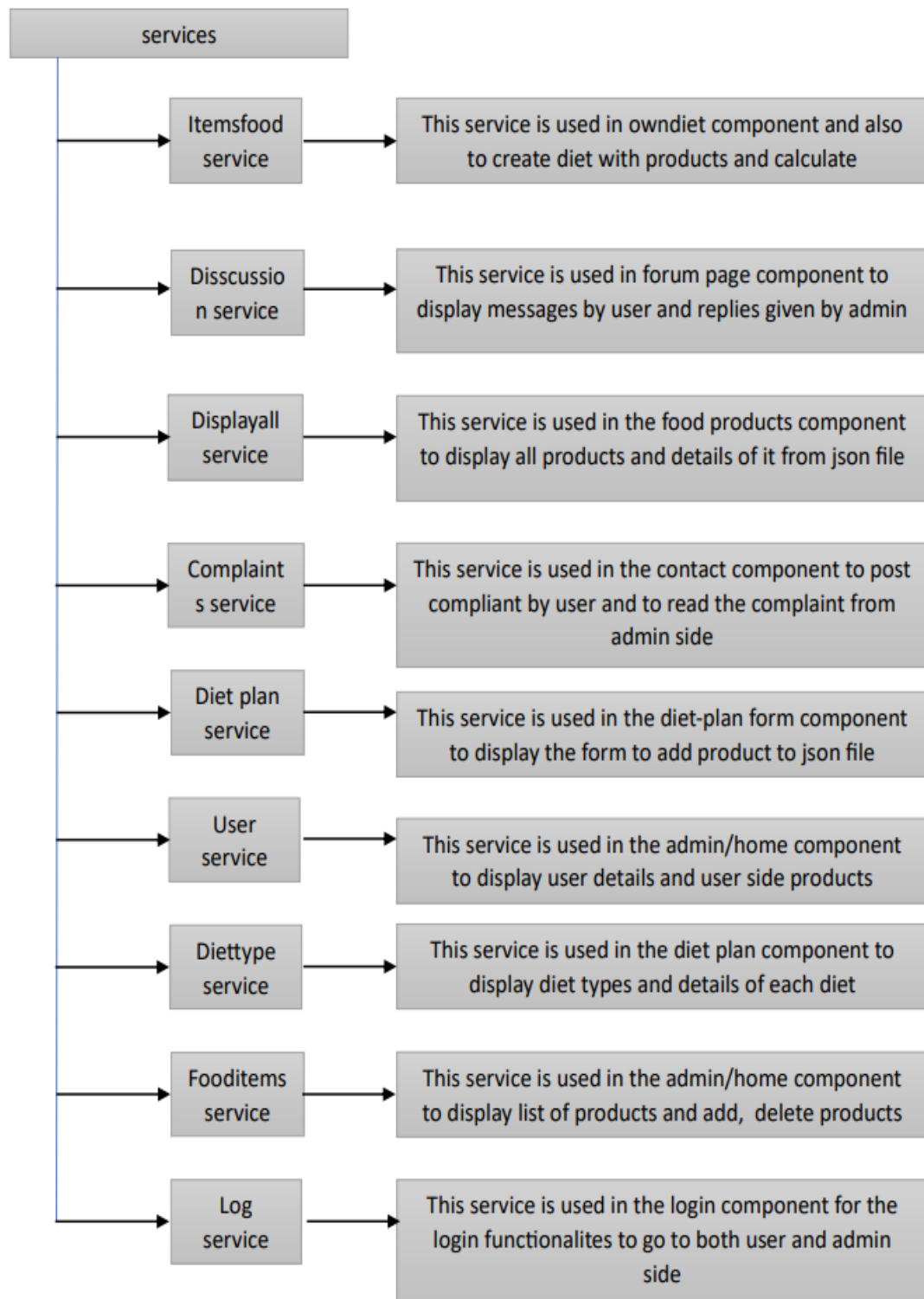
## Project Workflow



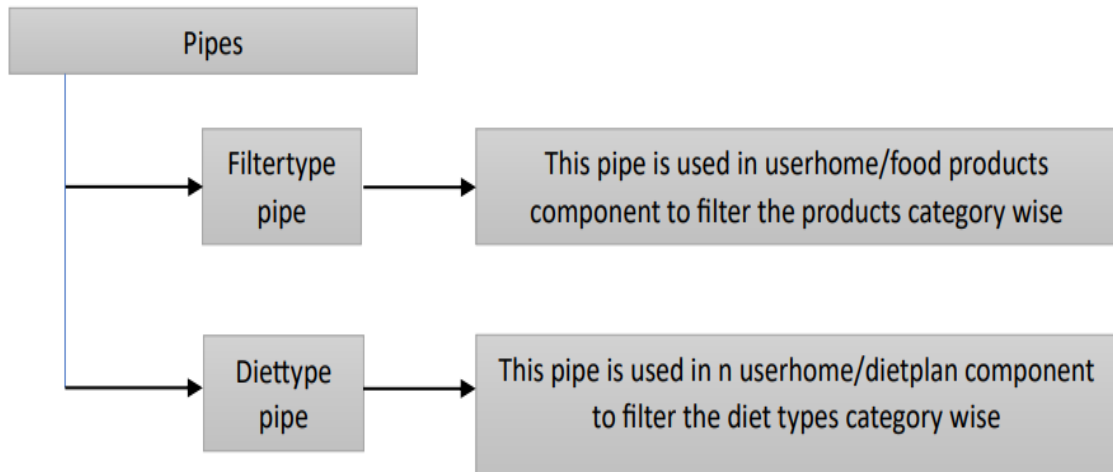
## Components workflow :



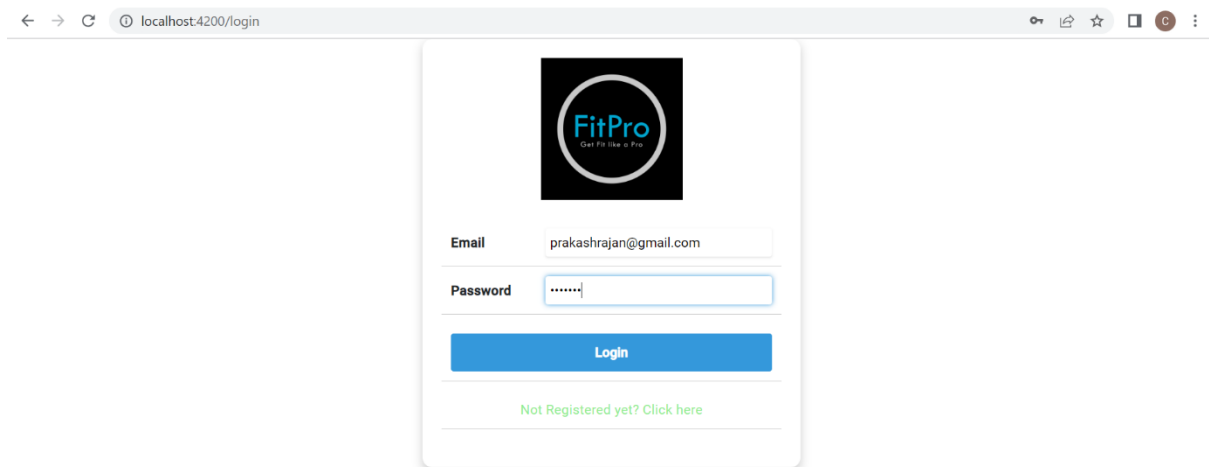
## Services Workflow:



## Pipes workflow:



## Login Page:



← → ↻ ⓘ localhost:4200/login

**FitPro**  
Get Fit like a Pro

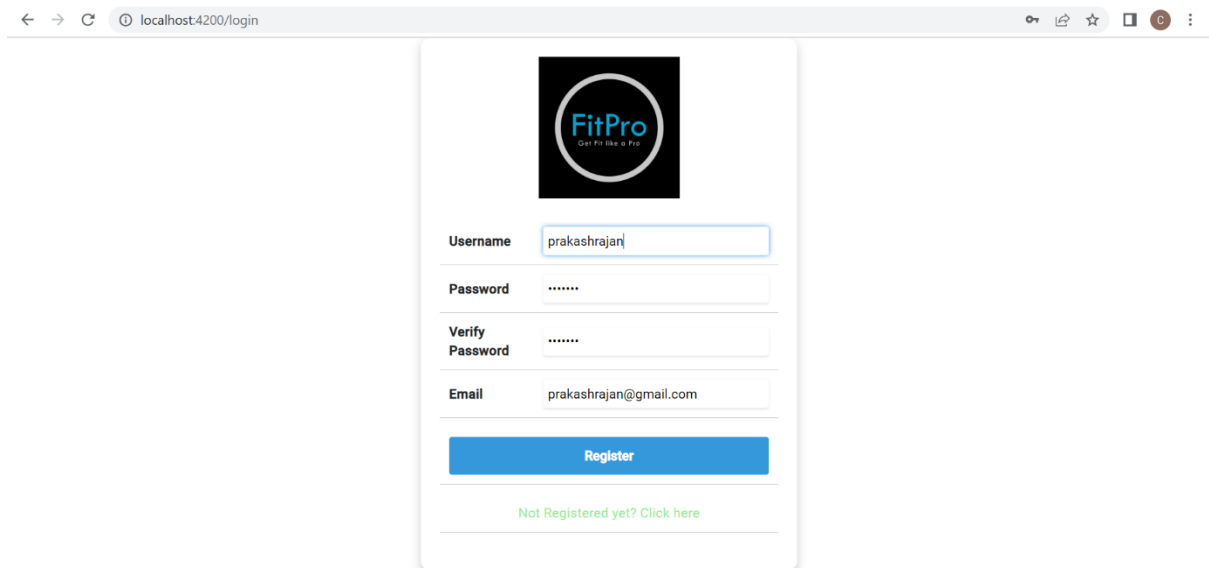
Email

Password

Login

[Not Registered yet? Click here](#)

## Registration page:



← → ↻ ⓘ localhost:4200/login

**FitPro**  
Get Fit like a Pro

Username

Password

Verify Password

Email

Register

[Not Registered yet? Click here](#)

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

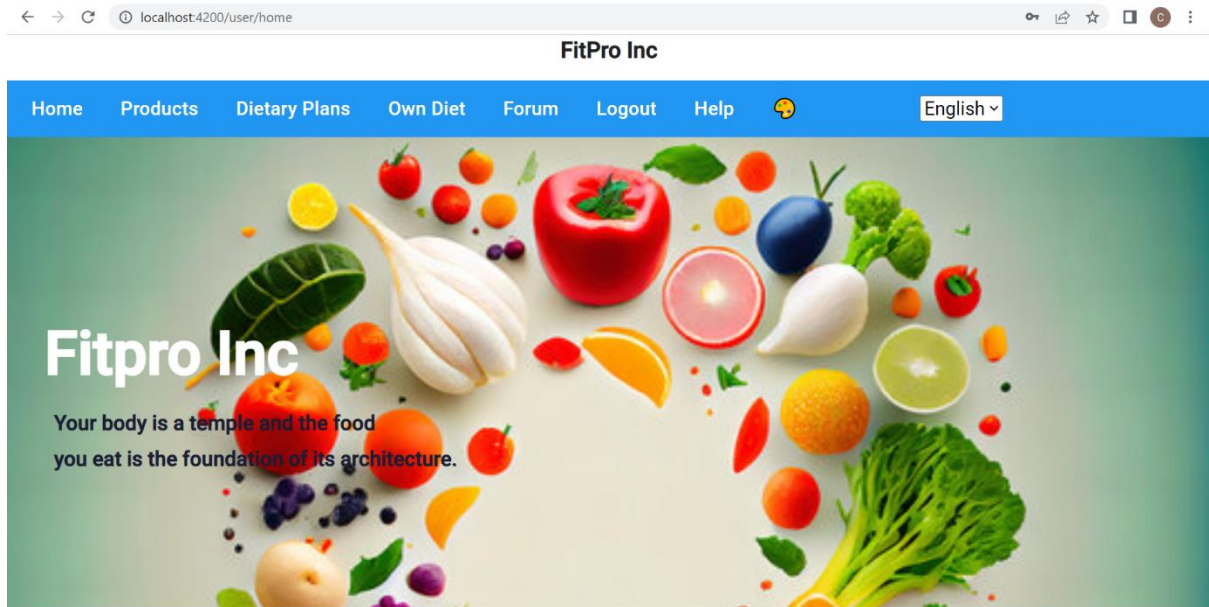
If you are already registered then you can login with the user credentials

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:

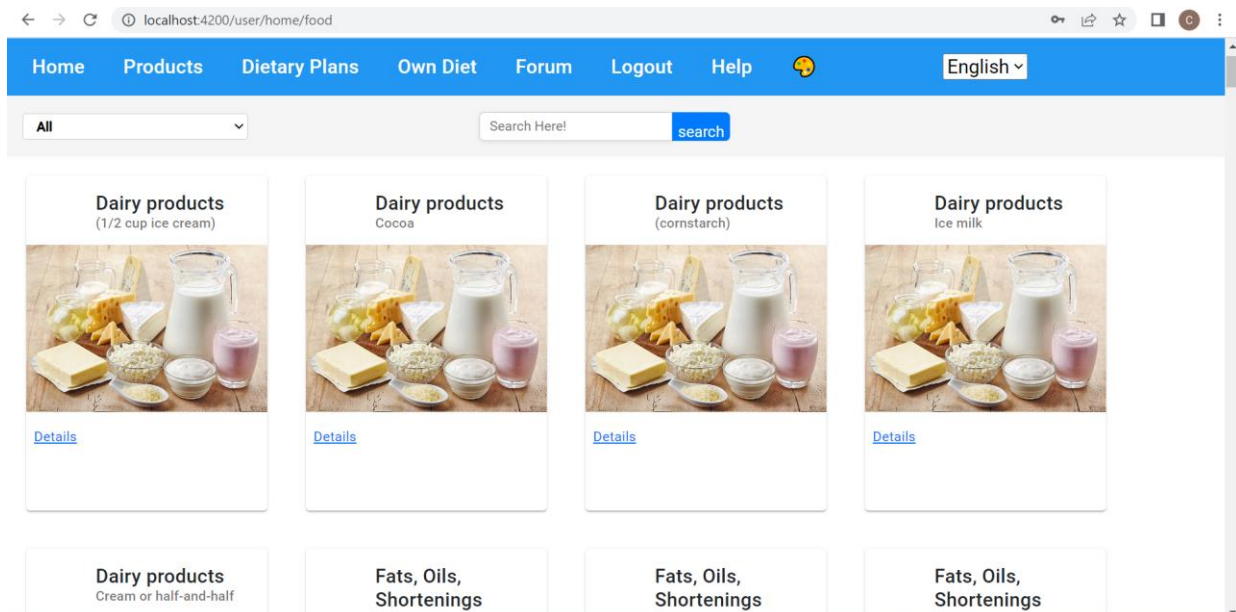
### Home page:



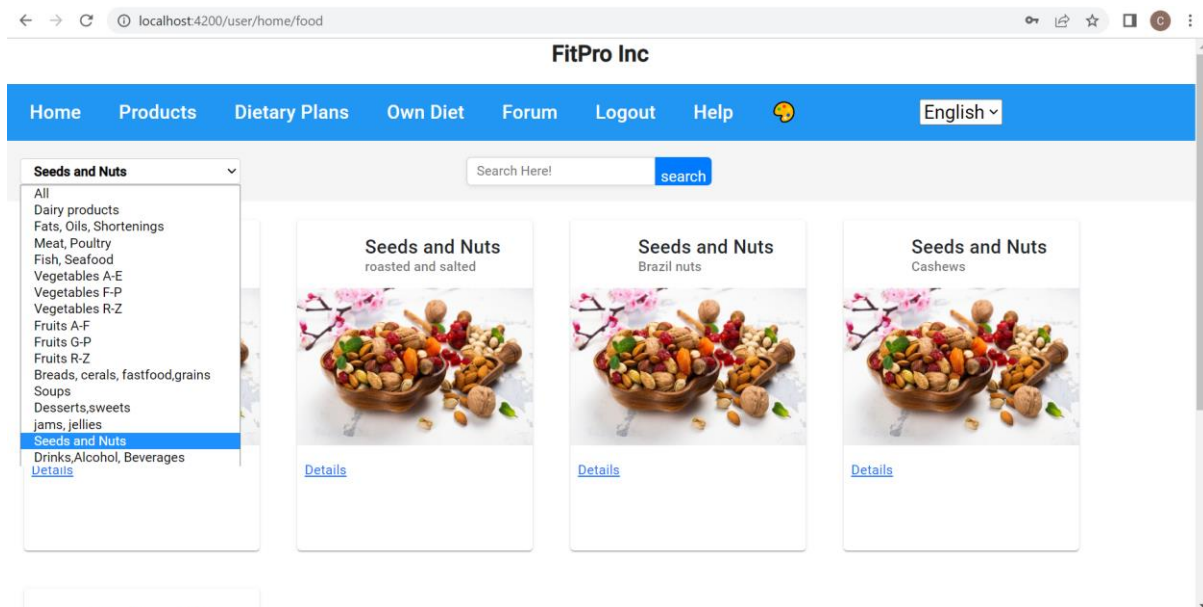
After logging in as user this homepage will appear

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:

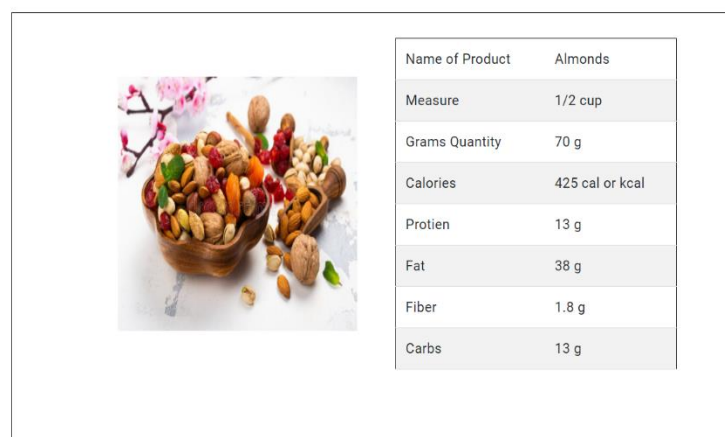


A homepage menu bar consists of products after clicking on that we get a products like all displayed in a page which is connected with routing

We have used pipes for filtering that category wise

we can also search whatever we required like particular product

## Details of product:

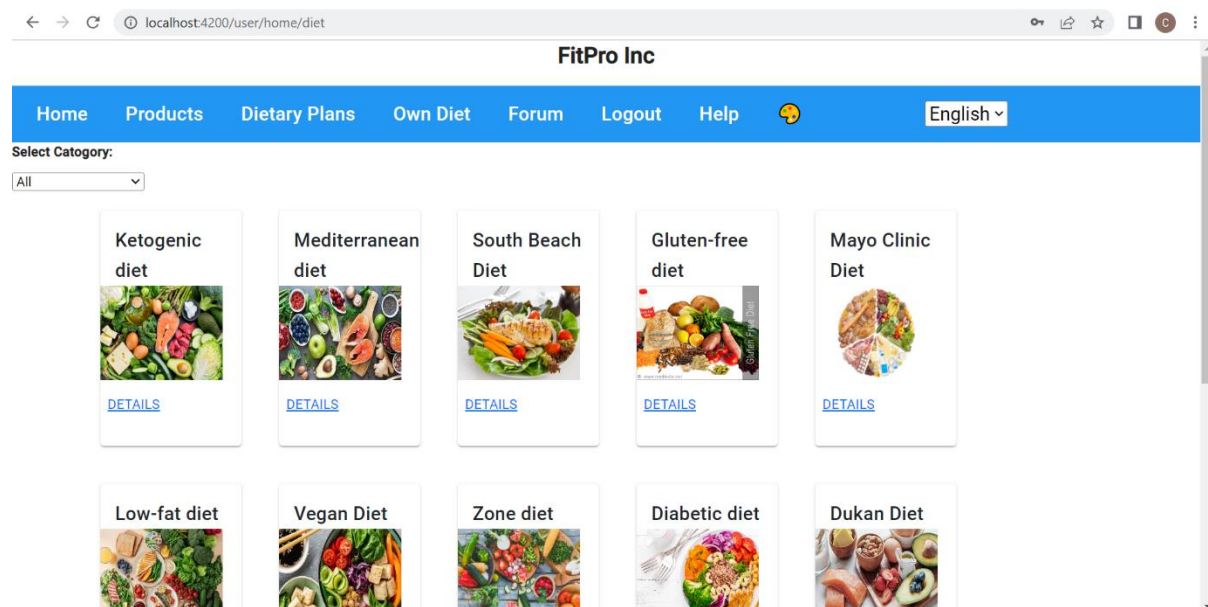


in the products page the products are displayed under which under each and every product there is a details option

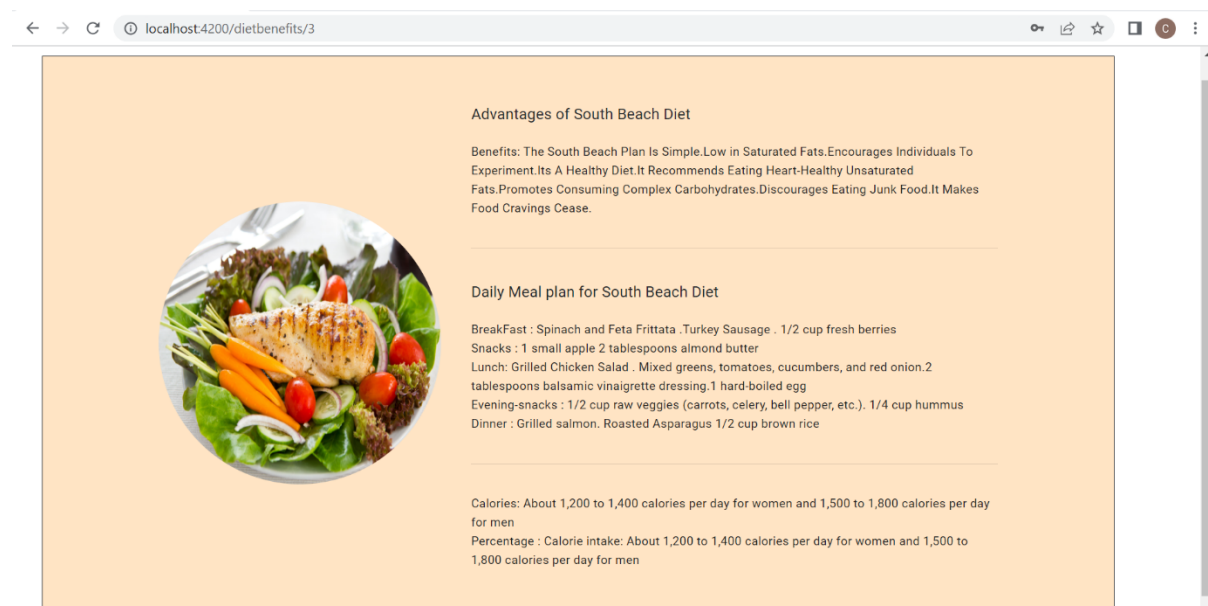
after clicking on to that details button it takes to new page through routing where details of particular product is displayed



## 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 Own Diet:

The interface is divided into two main sections: 'Available items' and 'Create Diet'.

**Available items:** A list of items with 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 'Quantity:' labels, each followed by a text input field. 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 containing the following data:

- Total Calories: 75.9
- Total Fat: 2.6400000000000006g
- Total Protein: 2.6400000000000006g
- 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 browser address bar shows 'localhost:4200/user/home/help'. The navigation bar includes links: Home, Products, Dietary Plans, Own Diet, Forum, Logout, Help, and a language dropdown set to 'English'.

The main content area features a form titled 'Post Your Complaint / Feedback' with the following fields:

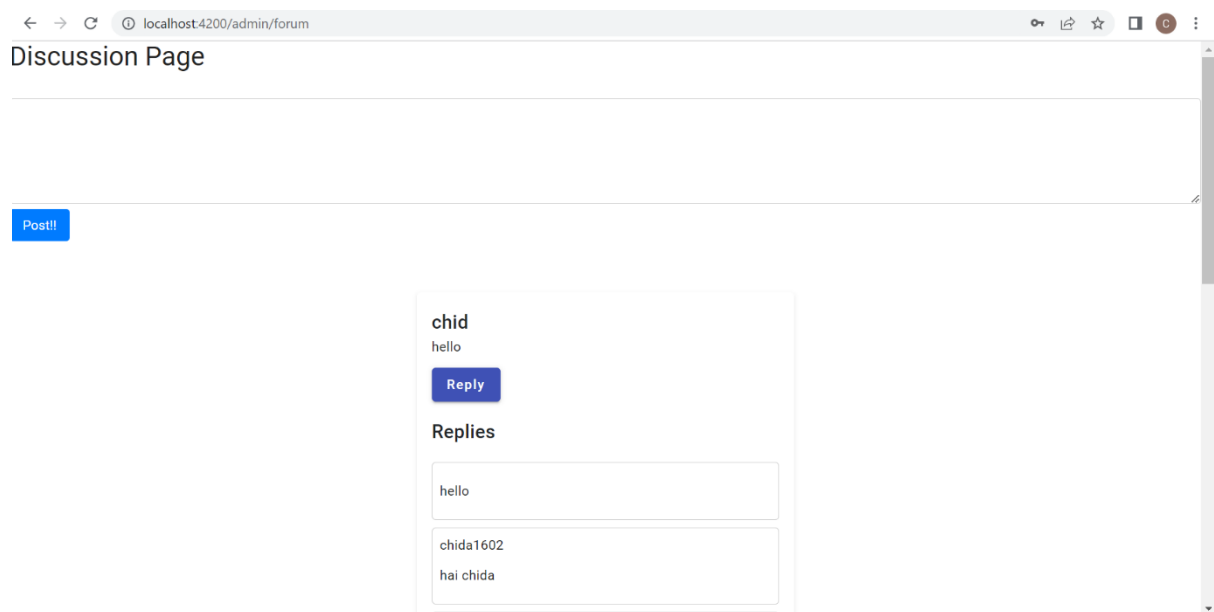
- Name
- Email
- Message (with a text area and a small icon)

At the bottom of 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

## Forum page

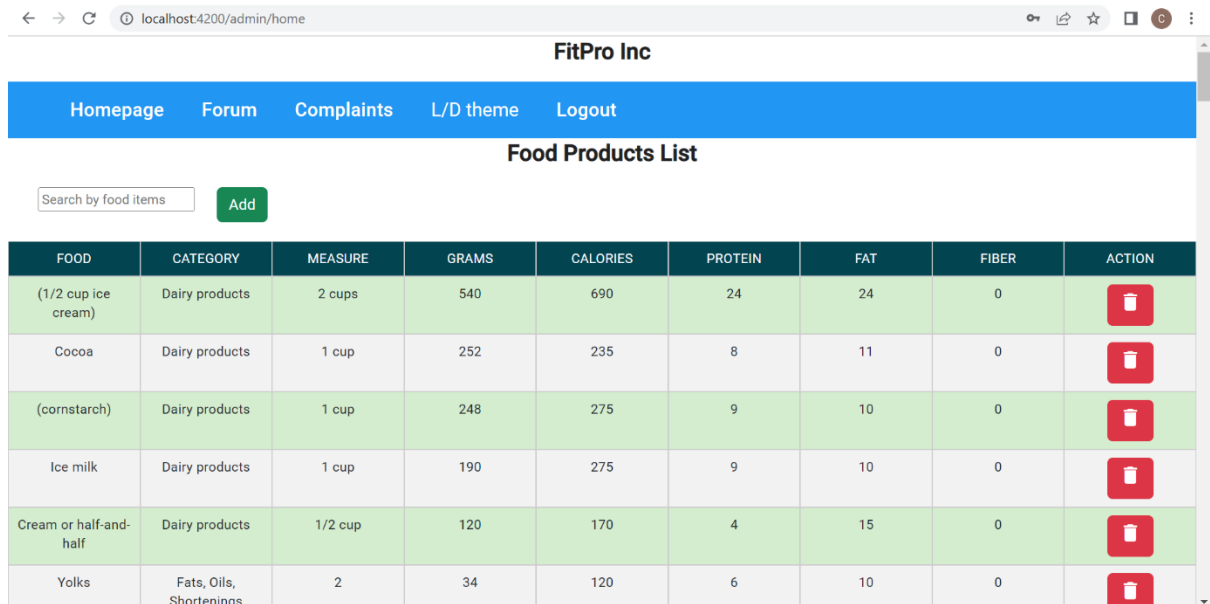


The forum is a discussion page where admin and users can interact

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

## Admin flow:

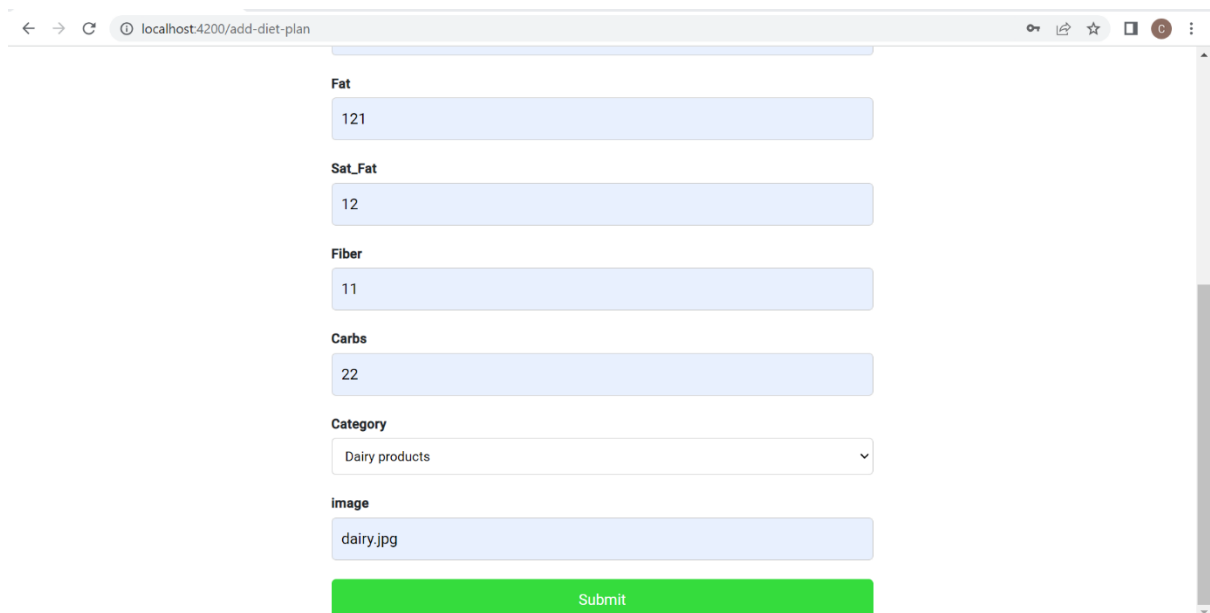
### Homepage



The screenshot shows the admin homepage of FitPro Inc. The browser address bar displays 'localhost:4200/admin/home'. The page features a blue navigation bar with links to 'Homepage', 'Forum', 'Complaints', 'L/D theme', and 'Logout'. Below the navigation bar is the 'Food Products List' section. It includes a search bar labeled 'Search by food items' and an 'Add' button. A table lists food products with columns for FOOD, CATEGORY, MEASURE, GRAMS, CALORIES, PROTEIN, FAT, FIBER, and ACTION. The table contains six rows of data, each with a red trash icon in the ACTION column.

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 in the admin interface. The browser address bar displays 'localhost:4200/add-diet-plan'. The form includes input fields for 'Fat' (121), 'Sat\_Fat' (12), 'Fiber' (11), and 'Carbs' (22). There is a 'Category' dropdown menu currently set to 'Dairy products' and an 'image' field showing '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

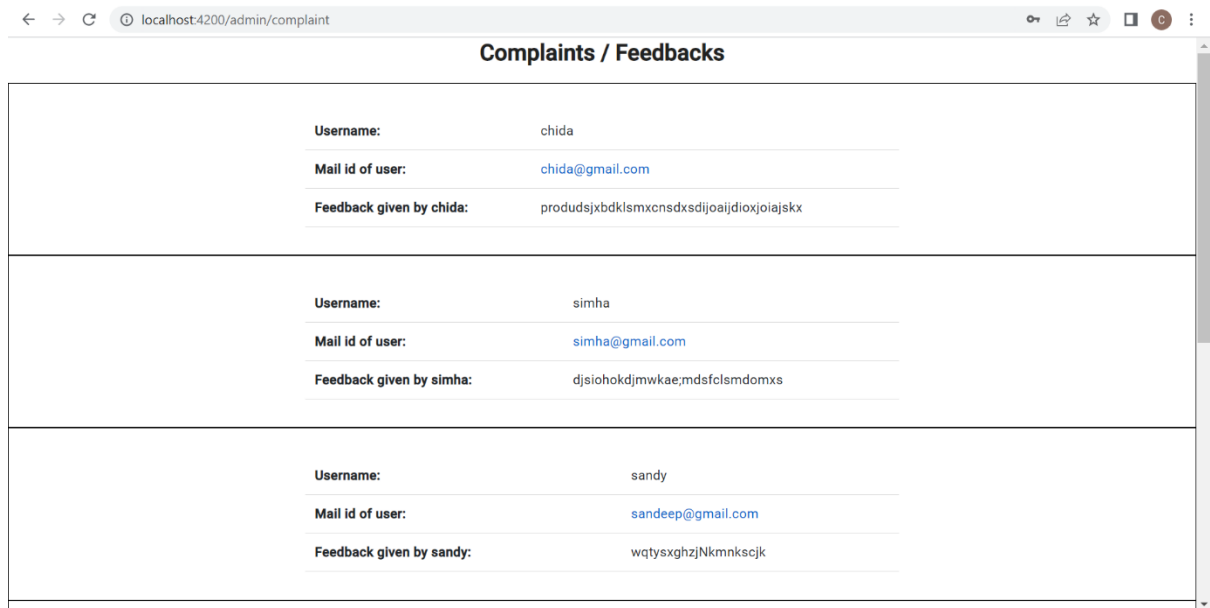
here admin can add and delete the products

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:

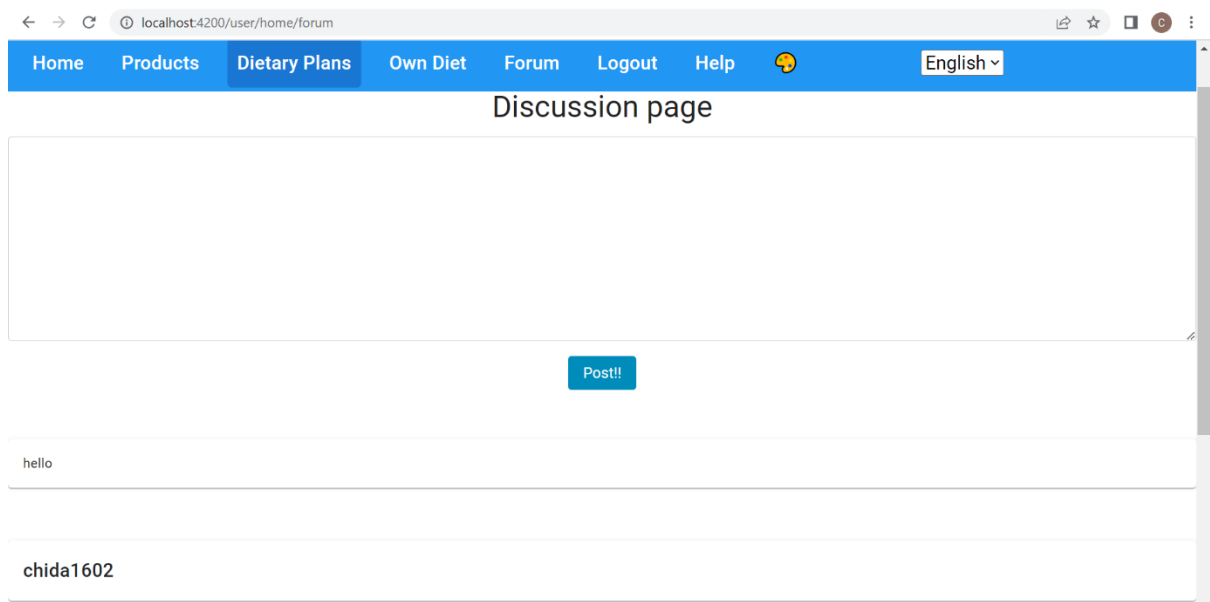


Complaints / Feedbacks	
Username:	chida
Mail id of user:	<a href="mailto:chida@gmail.com">chida@gmail.com</a>
Feedback given by chida:	produsjxbdklsmxcnsdxsdijoaiddioxjoiajskx
Username:	simha
Mail id of user:	<a href="mailto:simha@gmail.com">simha@gmail.com</a>
Feedback given by simha:	djsiohokdjmwkae;mdsfclsmdomxs
Username:	sandy
Mail id of user:	<a href="mailto:sandeep@gmail.com">sandeep@gmail.com</a>
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!!

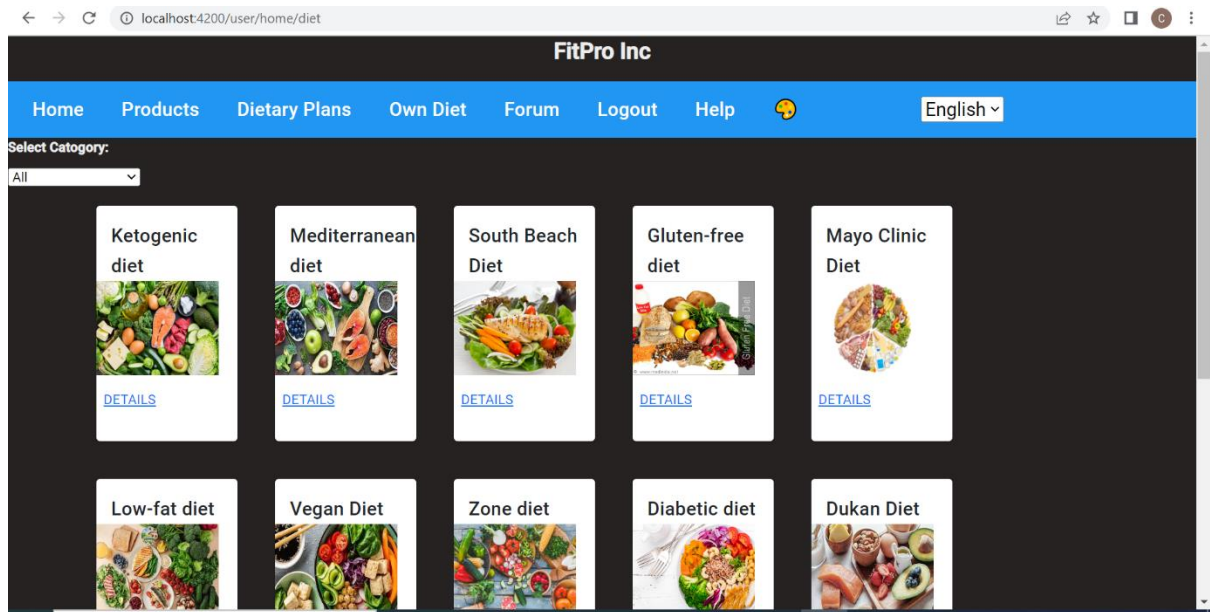
hello

chida1602

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

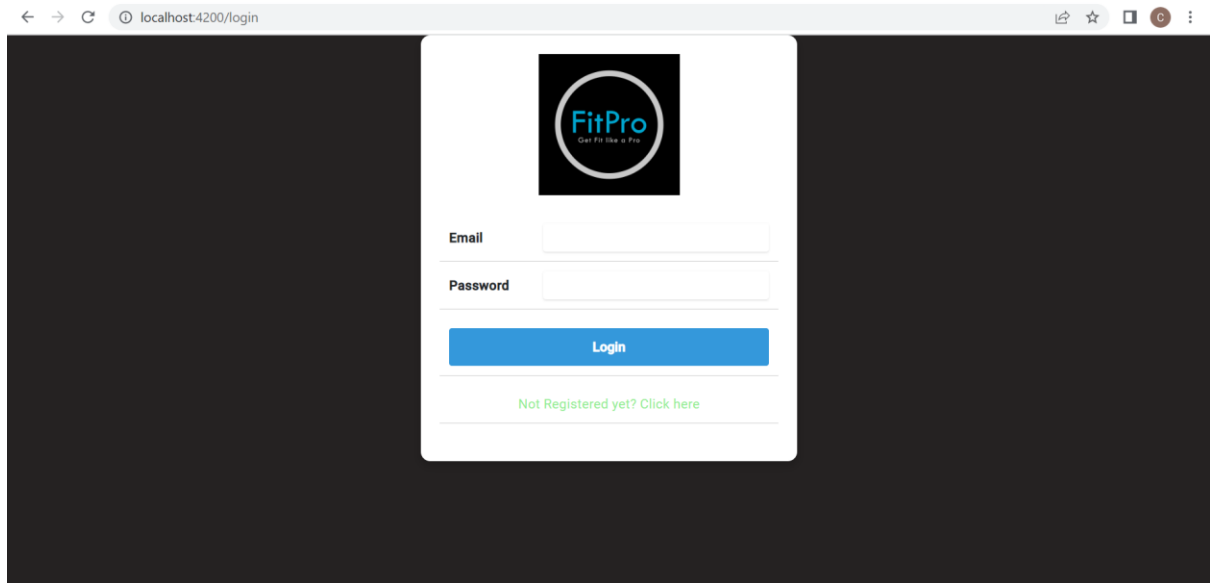
admin also can reply to the users comments

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



The screenshot displays the admin interface of the FitPro Inc application. The browser address bar shows the URL `localhost:4200/admin/home`. The application has a dark theme. At the top, there is a navigation bar with the following links: Homepage, Forum, Complaints, L/D theme, and Logout. Below the navigation bar, there is a section titled 'Food Products List'. This section includes a search bar labeled 'Search by food items' and an 'Add' button. Below the search bar is a table with the following data:

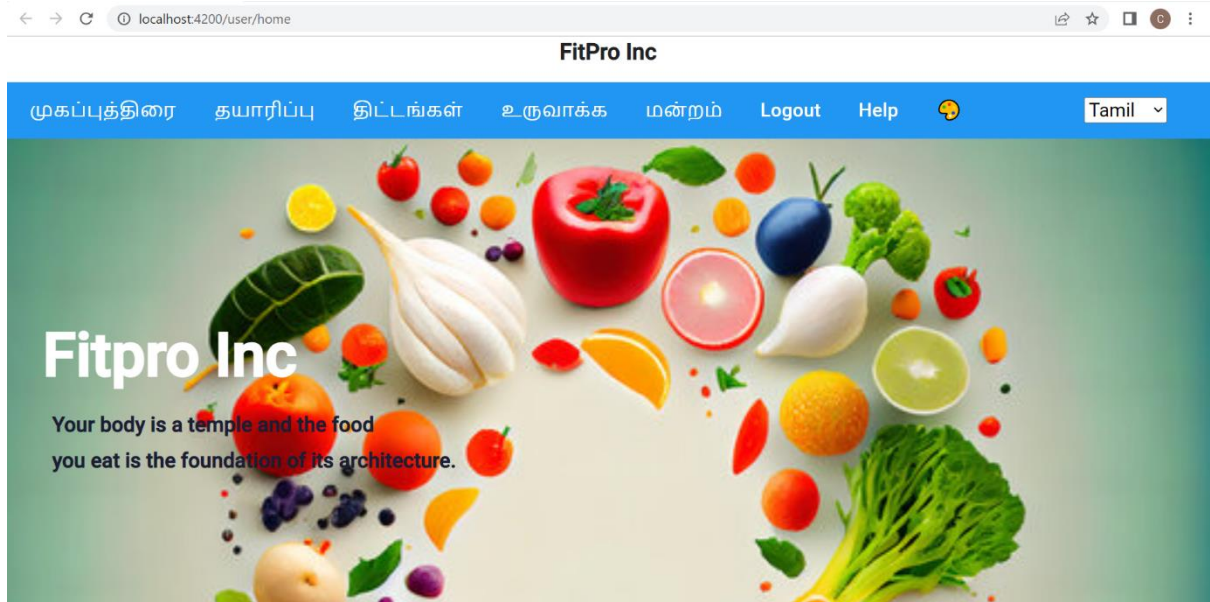
FOOD	CATEGORY	MEASURE	GRAMS	CALORIES	PROTEIN	FAT	FIBER	ACTION
(1/2 cup ice cream)	Dairy products	2 cups	540	690	24	24	0	
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Cream or half-and-half	Dairy products	1/2 cup	120	170	4	15	0	
Yolks	Fats, Oils, Shortenings	2	34	120	6	10	0	



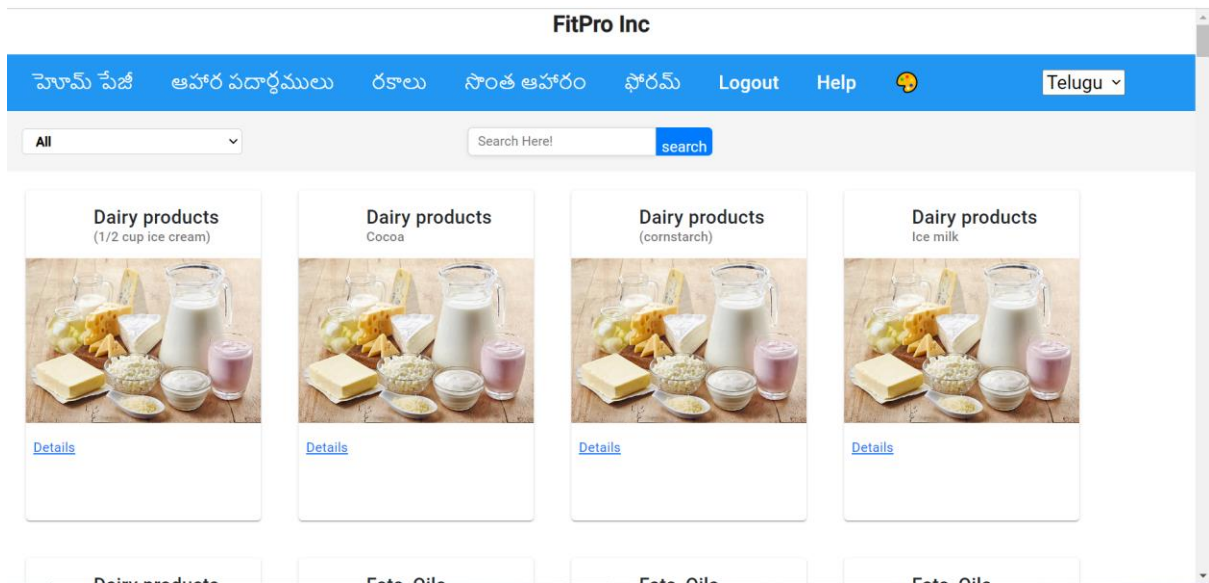
In all login page, admin and user side we can change the dark theme to light theme and from light theme to dark theme

## Interanationalisation:

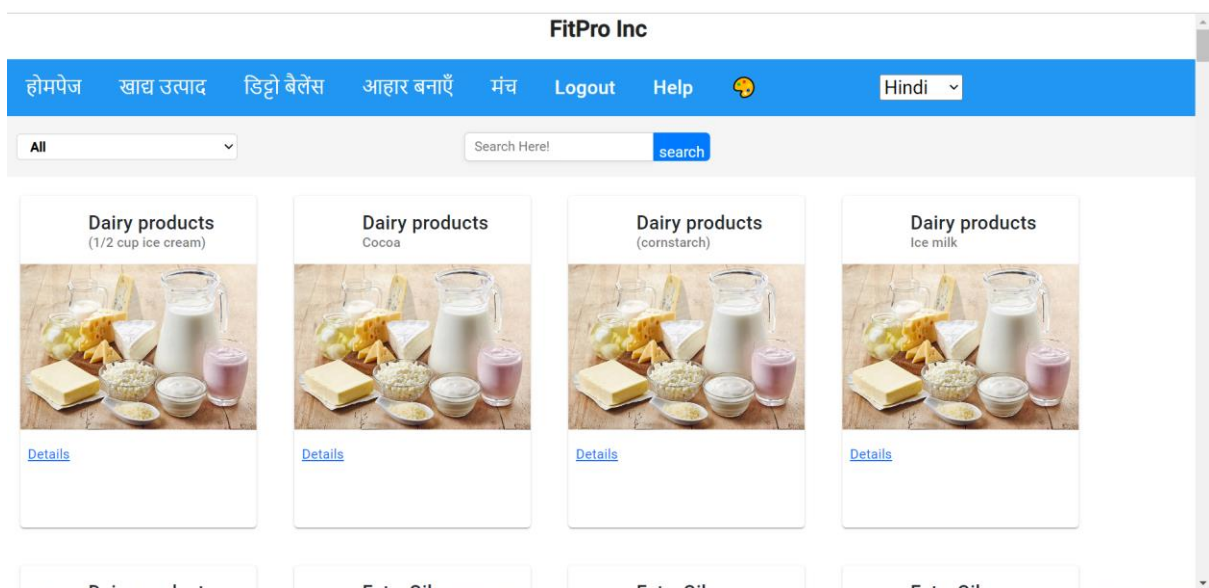
### Menubar in tamil



## 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.