Description

foodBIT is a software that is useful to the growing population of health-conscious people. Everyone cannot have a nutritionist or dietician helping them. This platform will aid such users by providing some valuable data to them. The food Recognition System will provide users with all the information about a food item searched by the user. The food item can be a simple fruit or can be a dish. Users can get a diet plan by giving few details about themselves. The software can help users in a situation where they just want to know what food item is in front of them or when the user wants to have a conscious diet by first learning about the food they are going to have.

The main functionality of the software will be to give details about a food item. The user will have to upload an image of the food item or search by name. After the image is uploaded, the software will identify which food item it is. With this, the software will also provide the user with the calorie count of that particular item, the region of the food item, and many more details.

An additional feature will be a diet planner for the user. Based on some information entered by the user, the platform will provide data about how much calorie is needed for the user in a day/week to have maintained a healthy and fit body. It will also provide some food recommendations to the user, which they can have to fulfill the calorie need. The software will give a filtering option for vegetarian, non-vegetarian, and vegan items.

The user can also subscribe to the notification service, which will help the user follow the diet plan made for him by sending notifications at regular intervals to have their meal and the meal contents.

Functionality

Food Identification:

The user will be able to upload an image of the food item.

After the image is uploaded, the software will display the name of the food item/dish present in the picture.

Food Information:

The software will be able to provide certain vital information about the food item.

The total calorie count of the food item will be displayed.

The amount of macro and micronutrients of the food item will be displayed.

Category of the food, i.e., vegetarian, non-vegetarian, or vegan, will also be provided.

The software will also provide information about the region where the food item belongs or is more produced.

Diet for user:

For getting a customized diet, users will have to sign up using their mail id.

The user will input some information, including weight, height, age, and gender.

Users will be displayed body mass measurements (overweight/underweight/etc.).

The Software will inform users about the total calorie count they need in a day.

A diet plan will be generated curated for the user using a specific algorithm based on the input provided.

The diet will contain food options that users can have, the quantity of food, and mealtime.

Food items in the diet will be selected on the basis of the region user lives in.

Users can customize the meals according to their preferences.

A filter option is provided to users to separate vegetarian, non-vegetarian, and vegan products.

The diet information will be saved on users’ accounts, and they can see it the next time they log in.

Users will be notified through notifications on the meal timings.

End Users:

Admin:

Can insert, delete, modify new food products.

Can insert, delete, or modify information about existing food items in the database.

Visitor:

Can get information about the food item by uploading an image.

Visitors can also search for a food item by name.

Registered Users:

Can upload an image and get the name of the food item.

Can get Nutrition information.

Can sign up using their mail id.

Can generate a diet plan.

Can modify the diet plan items.

Can filter food items in their diet.

Users will be getting notifications for the diet plan.