Department of Computer Science & Engineering

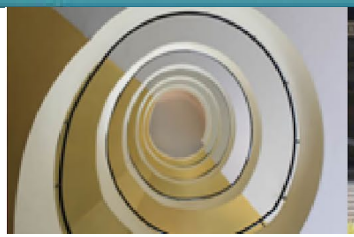
UE17CS355 – Web Tech II Laboratory

Project Evaluation

Project Title : Stay Healthy Eat Fit. Exercise and Food recommendation website.

Project Team : PES1201700047 – Pranav Aditya C P
PES1201700144 – Tanay Gangey
PES1201700924 – Vaibhav K T

PES UNIVERSITY

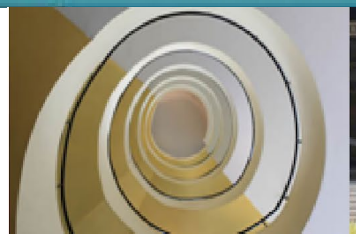





Project Description

- Stay Healthy Eat Fit is a website which keeps track of your food intake and the exercises performed.
- It also recommends meals for breakfast, lunch and dinner as well as workouts.
- Moreover it also performs exploratory data analysis and tracks daily progress, calorific and macronutrient intake.
- It allows users to input daily calories and macronutrient targets and help them stay motivated and achieve their goal.

PES UNIVERSITY






Technologies Used

- NodeJS for Backend functionality
- AngularJS for Frontend functionality
- ChartJS for plotting graphs
- PostgreSQL for database and storage
- Bootstrap and CSS for embellishment

Techniques Implemented

- Submission Throttling for inputting food intake and exercises for the day.
- Multistage download – Graph data is downloaded in stages when button is clicked
- RESTful communication between server and client

Intelligent Functionality

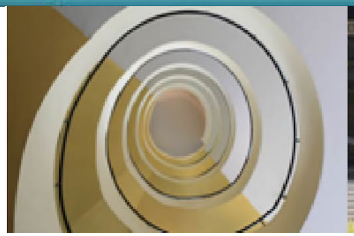
Exploratory-Data Analysis (EDA) :

We used ChartJS to plot graphs on data that we queried from various tables in our database . ChartJS uses canvas to achieve this functionality. We plotted various graphs including a Donut chart of the percentage distribution of Proteins, Carbohydrates and Fats, Bar chart of target vs actual consumption, a line graph of BMI progress and Grouped bar chart of percentage consumption by meal.

Recommender system/Collaborative Filtering:

To achieve this we queried the database to find out what the user ate for the current date and then used this data to find other users who ate similar food items in the same meal and recommend food to the former with the data obtained from the latter. We perform similar operations on user exercise data to recommend the workout exercises.

PES UNIVERSITY



Thank You