1. **Secure Chat App**:
   - Developed a secure real-time chat application using **React (TypeScript)** for the frontend and **Node.js** for the backend.
   - Implemented **AES encryption** to ensure end-to-end message security, encrypting messages on the client-side before transmission and decrypting them upon receipt.
   - Utilized **WebSockets** for real-time communication, enabling seamless message exchange.
   - Designed a user-friendly interface for sending and receiving encrypted messages
   - Code Link - https://github.com/imsaurabh1/secure_chat_app
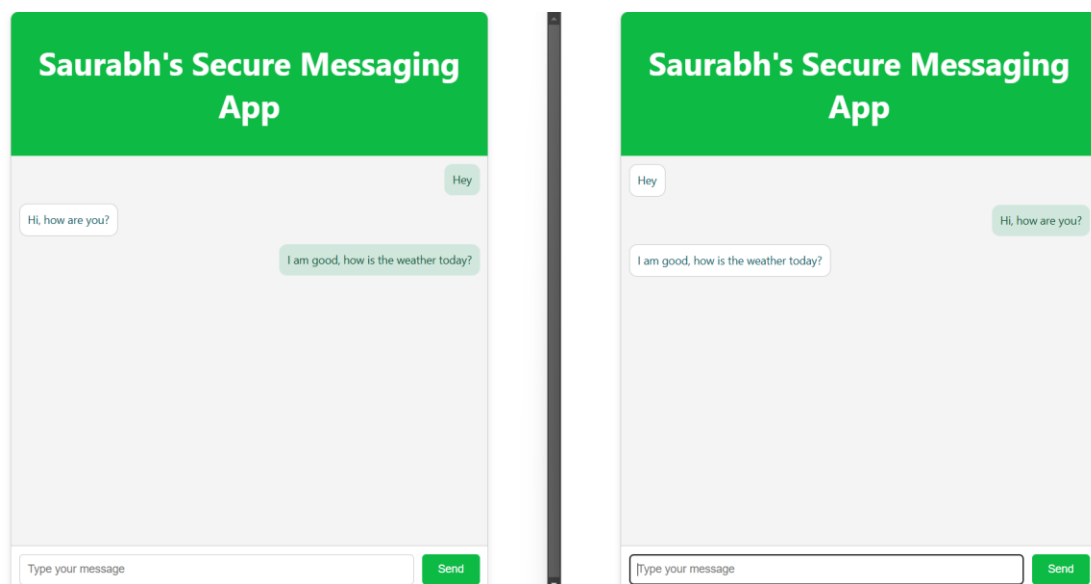


Two client on frontend

Backend console shows encrypted message

2. Master Thesis – AI Planning Software Repository

- A centralized platform for accessing AI planning software metadata, with features to discover, filter, sort, and add new software
- Designed with a modular architecture with different functionalities as a service which ensures seamless integration between frontend and backend and an email service for admin notification
- Frontend: React, Backend: Node.js, Database: MySQL, Containerization: Docker with 3 containers
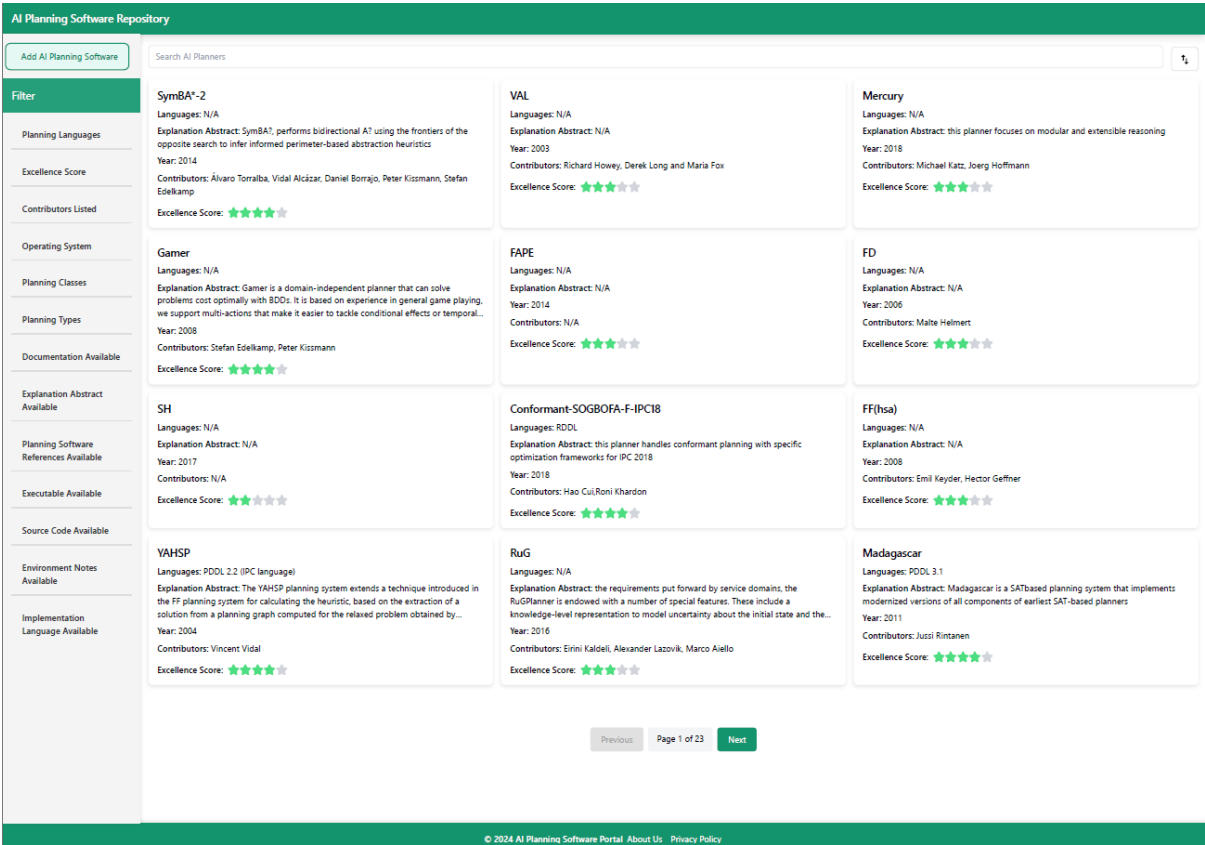

Frontend Home screen
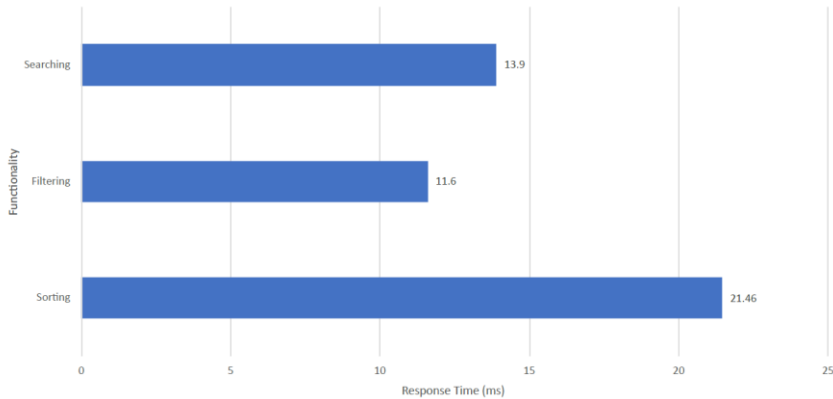
Feature level performance

3. Vue Dashboard

- Designed a dashboard using Vue.js to fetch data via GraphQL.
- Created visualizations for complex data using Single Line and Multi-Line Graphs for better insights.
- Integrated backend APIs to fetch the latest records with filters and authorization.
- Code Link - https://github.com/imsaurabh1/vue_api_graphql

Data Visualization - Line Chart

Line Chart [X - Created At | Y - Maturity]
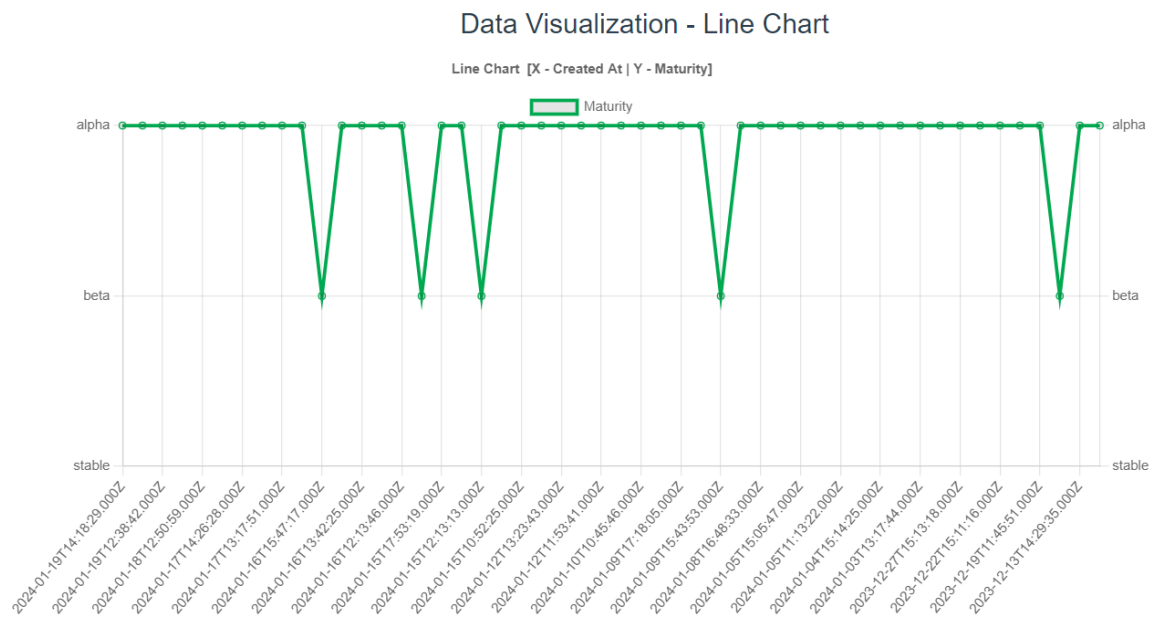
4. HomeCenter Project

- An e-commerce website to buy sofa and bed
- Functionalities: Login, Signup, Product Display, Adding and Removing from the Cart, Checkout, Payment, and Review.
- Technology: Python Django
- Code Link - https://github.com/imsaurabh1/homecentre

HomeCentre   Shop   About   0

Welcome to HomeCentre

Home decor items available here

Start shopping

Brown Leather Sofa

900.0

Luxury Bed

290.0

Comfort Bed

100.0

ABOUT US

HomeCentre was founded by Saurabh in 1995 and came to life as a mail order catalogue business in Germany.

SOCIAL LINKS

Facebook

Twitter

Instagram

←   TEST MODE

Pay

$390.00

Comfort Bed	$100.00
Luxury Bed	$290.00

Powered by **stripe** | Terms Privacy

Pay with card

Email

Card information

1234 1234 1234 1234   VISA

MM / YY   CVC

Name on card

Country or region

Germany

☐ **Securely save my information for 1-click checkout**
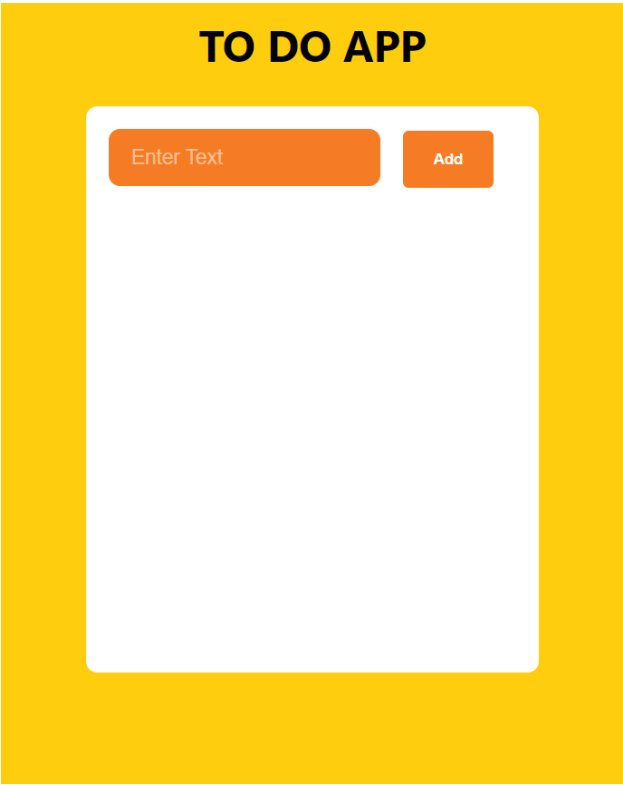Pay faster on this site and thousands of others.

Pay

5. Restaurant Website Project

- Restaurant website with Home, About and Contact Page. Reserve Table & Login Popup Functionality
- Website is developed using ReactJS. This project is entirely developed by me and available on my GitHub.
- Code Link - https://github.com/imsaurabh1/asilo
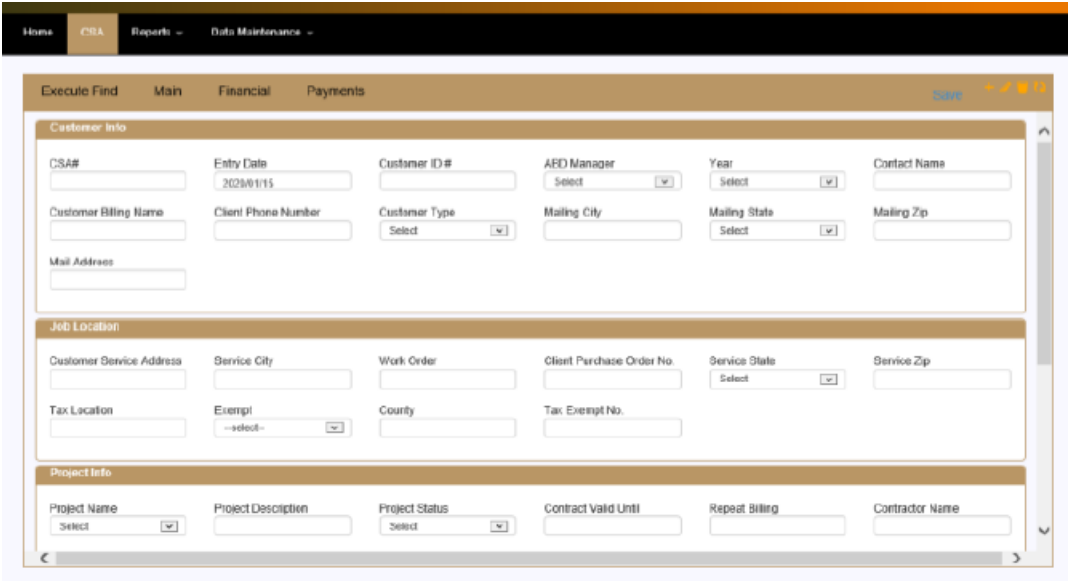- Live Link - https://imsaurabh1.github.io/asilo/
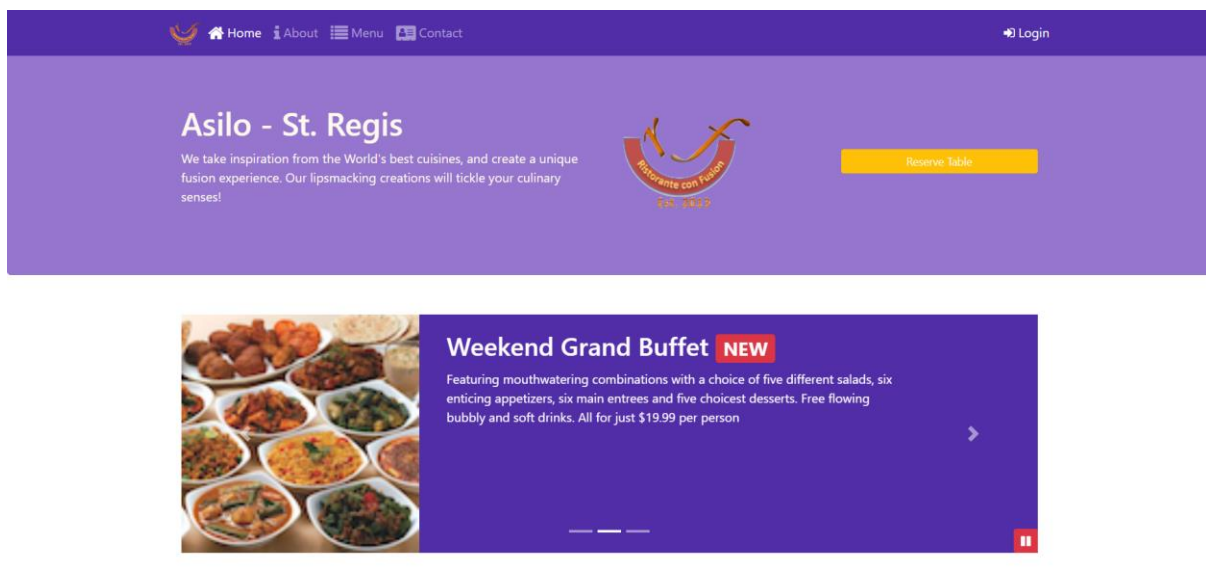
6. To Do App

- Mini Project; same as the name says – app to add items to our daily to-do list
- Functionality – Add, Delete, Modify
- This app is entirely developed by me and available on my GitHub
- Code Link – https://github.com/imsaurabh1/To-Do-App-Code
- Live Link - https://imsaurabh1.github.io/To-Do-App/

TO DO APP

Enter Text   Add

7. Business Website for client

- This Business website was developer for one of the clients which had following three tabs – a) Financial, b) Reports and c) Maintenance
- Website was developed using HTML / CSS & **Bootstrap Framework**
- Hierarchical Grid used in Reports tab is created using **Infragistics**
- I was into UI development of Reports and Maintenance tab completely and 'Execute Find' tab from Financial Tab

[(a)Financial]

[(b)Report]

[(c)Maintenance]

8. Bachelors Project – Globe Trotter – An Optimal Travel Sequence Generator

- This website finds the best itinerary/route for a customer given location, cost and duration
- Website is developed using PHP and CSS
- I was into UI development of the website & Ant Colony Optimisation Code Implementation
- File '4.Final_Year_Project_Demo_Video.mp4' has the demo of the website
- https://drive.google.com/drive/folders/1oYgTGGq1RYQRF3P9hFG4zZo_Gc4J98h_
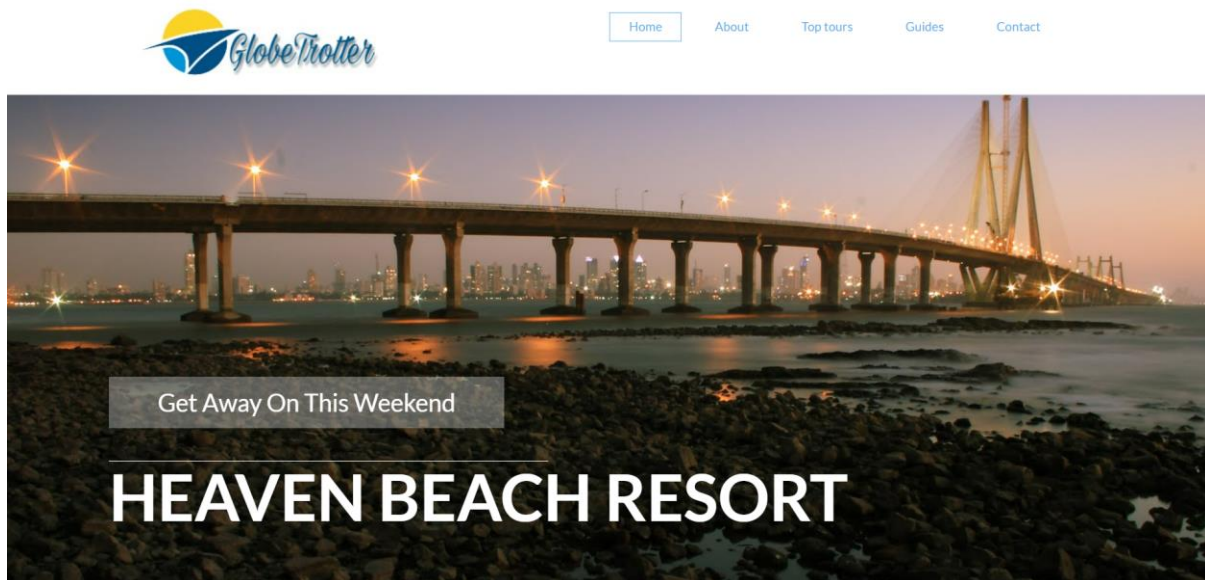
9. Mini Project – FootBlog

- This was a mini project for posting football viewers reactions/comment on the blog
- Website was developed using HTML5, CSS3 & PHP
- I was into developing blog UI and functionality
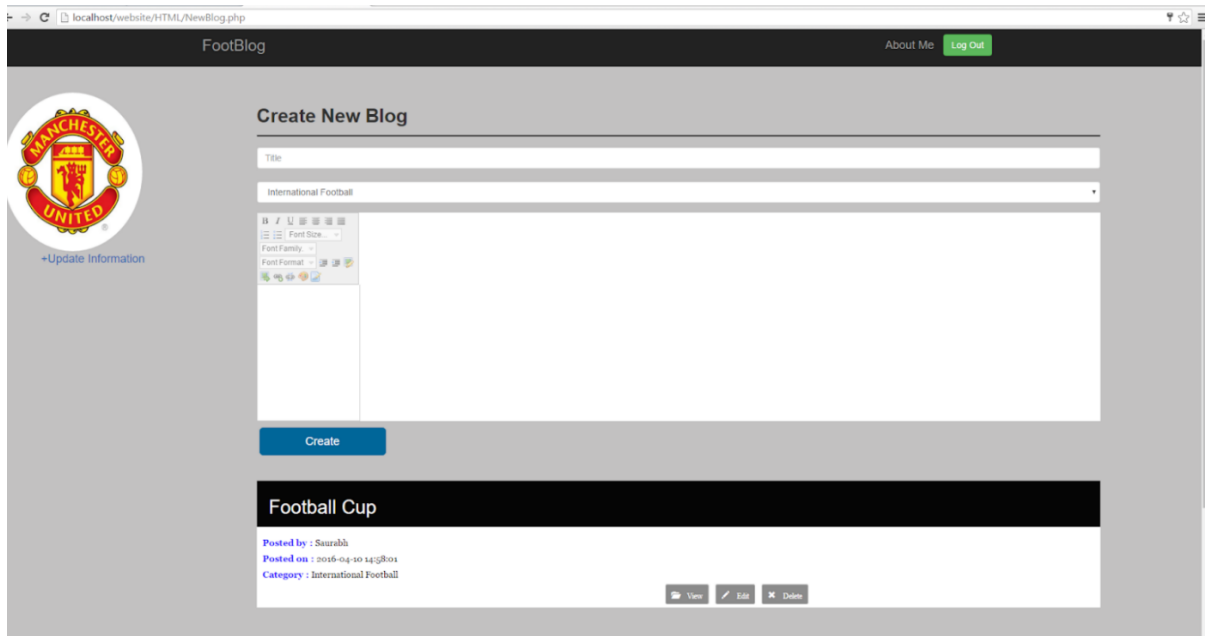
10. NutriFit App

- Calculates BMI, compares it with standard values, and provides tailored fitness tips
- Allows users to select diets based on preferences and displays detailed nutritional information (e.g., calories, fats, proteins)
- Database: SQLite | API: Nutritionix API
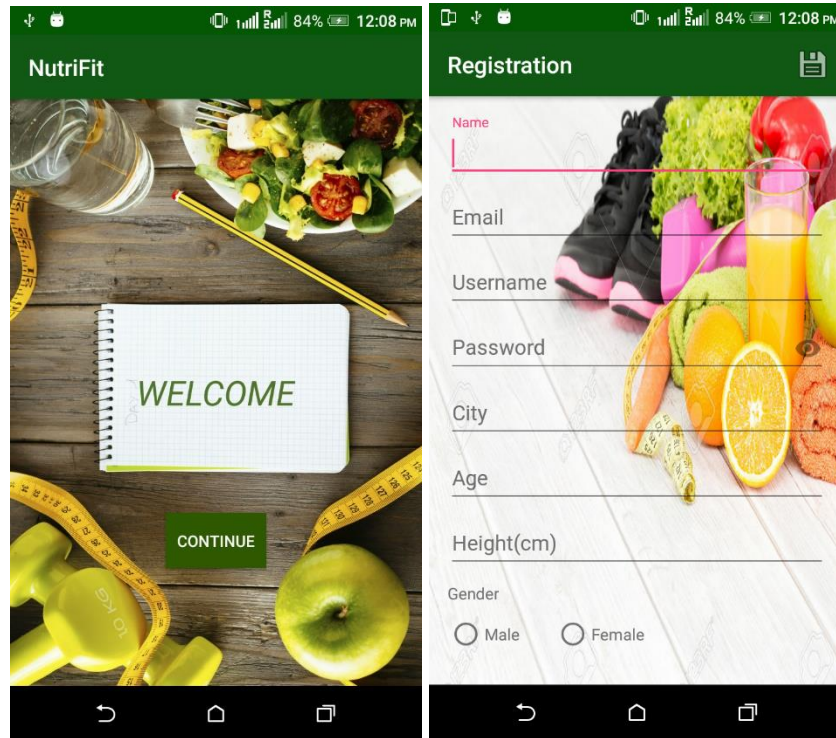
11.Digital Company Match (Fraunhofer IAO)

- Users can register, log in, swipe through company cards, and rate or comment based on individual criteria.
- Two roles are supported: **User** and **Admin**, each with distinct functionalities.
- Successfully implemented the comment functionality, zip file generation, and download feature for admins.
- Backend: Java Frontend: Flutter

12.Music e-store

- A site purchasing music online and transaction management
- Registration, Login, Customer Purchase, Supplier Music Addition
- Technology: Java Swing and MySQL