
CONTOUR CAFE RECORD SYSTEM

SRS Document

PREPARED BY:

Muhammad Zohaib

Umme Kulsoom

Daniyal Faraz

User Requirements

1. User Registration

1.1. User Sign-Up

- Requirement: The system shall allow users to register by providing their employee number, name, department, email, and password.
- Validation: The system shall validate that the employee number is unique and that all mandatory fields are filled.

1.2. User Sign-In

- Requirement: The system shall allow registered users to sign in using their email and password.
- Security: The system shall implement password encryption and secure authentication methods.

2. Lunch Recording

2.1. Form Filling

- Requirement: The system shall provide a form for users to fill in when they have lunch.
- Fields: The form shall include fields for selecting the type of food (normal/diet) and automatically record the timestamp of form submission.

2.2. Data Submission

- Requirement: The system shall save the form data including employee number, food type, and timestamp in the database.

3. Calendar View

3.1. User Calendar

- Requirement: The system shall provide users with a calendar view to see their lunch attendance records.
- Details: The calendar shall display the dates and corresponding meal details (normal/diet).

4. Statistics Viewing

4.1. Weekly Stats

- Requirement: The system shall provide a view of weekly lunch attendance statistics for the user.
- Representation: The stats shall be displayed in tabular and graphical formats.

4.2. Monthly Stats

- Requirement: The system shall provide a view of monthly lunch attendance statistics for the user.
- Representation: The stats shall be displayed in tabular and graphical formats.

4.3. Quarterly Stats

- Requirement: The system shall provide a view of quarterly lunch attendance statistics for the user.
- Representation: The stats shall be displayed in tabular and graphical formats.

5. Admin Dashboard

5.1. Daily Listing

- Requirement: The admin dashboard shall display a table listing all employees who filled the lunch form for a particular day.
- Details: The table shall include employee number, name, food type, and timestamp.

6.2. Employee Calendar and Stats

- Requirement: The admin shall have the option to enter an employee number and view that employee's calendar and statistics.
- Details: The calendar and stats view shall include the same details available to the user but presented in a comprehensive admin format.

Modules

1. User Authentication Module
2. Lunch Recording Module
3. Calendar View Module
4. Statistics Viewing Module
5. Admin Dashboard Module

Design and Architecture

1.Wireframe:

```
+-----+
|           Login           |
+-----+
| Username: [_____]         |
| Password: [_____]         |
|                             |
| [Login]                   |
+-----+
```

```
+-----+
|           Meal Booking    |
+-----+
| Hello, [Employee Name]    |
|                             |
| Select your meal:         |
| [Diet v]                  |
| [No Diet]                 |
|                             |
| [Book Meal]               |
+-----+
| You have successfully     |
| booked your meal for      |
| today.                    |
+-----+
```

```
+-----+
|           Booking Confirmation
+-----+
| You have already booked   |
| your meal for today.     |
|                             |
| [Home]                   |
+-----+
...

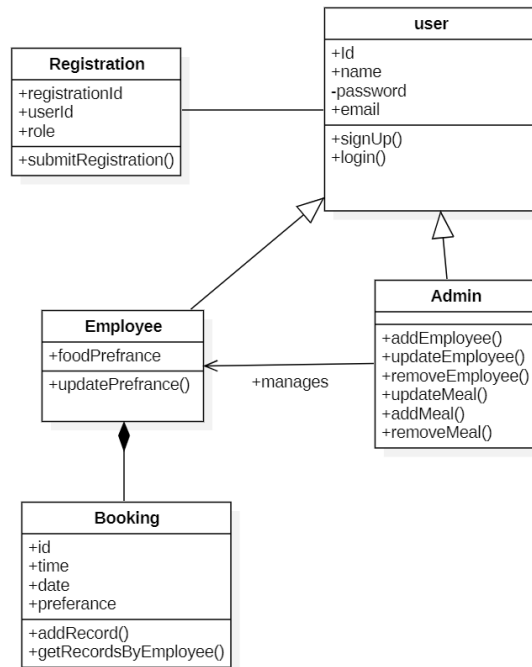
```

```
+-----+
|           Admin Dashboard
+-----+
| Daily Meal Bookings      |
| +-----+                |
| | [Bar Chart]            |
| |                         |
| +-----+                |
| Meal Type Distribution    |
| +-----+                |
| | [Pie Chart]            |
| |                         |
| +-----+                |
| [Export Data]             |
+-----+
```

```
+-----+
|           Admin Reports
+-----+
| Date: [_____] [Search]   |
| +-----+                |
| Employee Name | Meal Type |
| +-----+                |
| John Doe      | Diet      |
| Jane Smith    | No Diet   |
| ...           | ...       |
| +-----+                |
| [Export Data]            |
+-----+
...

```

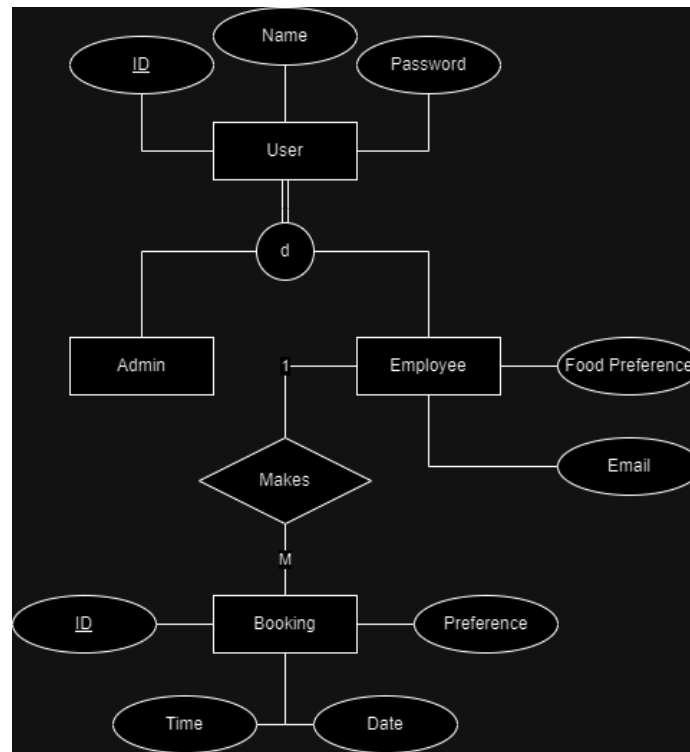
2.Class Diagram:



Assumptions:

- There are two main roles in Café ,the admin and the employee
- The admin has authority to add ,update or remove the employee from the café software in case, any employee has left the place or joined
- Admin also manages the meal
- Employee can only make order(Booking)

3.Entity Relation Diagram:



Assumptions:

- An employee can make more than one booking, for example: he set his preference as diet but after some time he want to switch to normal so he is allowed to do that.

4.Architecture:

This project aligns with the 3 tier architecture.

Reason:

1.The project has separation of concern:

- **Presentation layer:** It sends content to browsers in the form of HTML/JS/CSS. Café project utilizes the React.js library
- **Application layer:** It uses an application server and processes the business logic for the application. This will be written in Express.js
- **Data Layer:** It that provides access to application data. This will be MySQL.

2.The architecture chosen will ensure faster development because each person will work on the individual layer

3.As each layer is separated so it is easier to fix bugs leads to higher maintainability,

