
University of Mauritius

ICT 2207Y(3) - Web and Mobile Application Development

BSc (Hons) Computer Science Year 2

Software Requirement Specification

Escale Cuisine and Grill



Luis Miguël Juliano
Larhubarbe -
2414004



Nadish Kisto -
2414527



Poveshe Cannoo-
2415533



Suhail
Ramjeet-
2415399



Casseeram
Shaviyan-
2414341



Savrimoutou
Noah -
2315384

Submission Date: 01/09/2025

Table of Contents

Introduction.....	3
Functional Requirements	4
Visitors.....	4
Customers	4
Staff.....	4
Admin	4
Diagrams	5
Use case diagram	5
Entity Relationships Diagram(ERD).....	6
Class Diagram.....	7
Technology stack	7

Introduction

Upon browsing our options, we decided to create a website for an existing restaurant business in Mauritius known as Escale Cuisine & Grill, located along the Coastal Road in Flic en Flac. The restaurant is well-regarded for its inviting atmosphere and diverse menu, attracting both locals and tourists. To ensure authenticity, we approached the owner for permission to use the company's logo, branding, and official menu. With his approval, we began outlining both the back end and front-end development of the website.

Our development strategy focuses on creating a modern, user-friendly platform that not only showcases the restaurant's identity but also provides a seamless digital experience for customers. The back end will handle essential processes such as reservations, online ordering, content management, and analytics, while the front-end will deliver an intuitive interface with visually appealing designs, responsive layouts, and smooth navigation across all devices.

Functional Requirements

Visitors

- Should be able to **browse the homepage, menu, about us, and contact information.**
- Should be able to **view restaurant opening hours, location, and events/announcements.**
- Should be able to **toggle between the English and French language for the website.**

Customers

- Should be able to **create and manage their profile.**
- Should be able to **log in, log out, and reset their password via email.**
- Should be able to **make, confirm, modify, or cancel reservations.**
- Should be able to **place online orders for pickup or delivery.**
- Should be able to **track order status in real time.**
- Should be able to **view promotions and apply discounts.**
- Should be able to **leave reviews and ratings.**
- Should be able to **scan QR codes at tables to place in-house orders.**
- Should be able to **input the unique code the table instead of QR codes.**
- Should be able to **toggle the interface language (English/French).**

Staff

- Should be able to **view and update orders** (pending → ready → completed).
- Should be able to **view, filter, and sort reservations.**
- Should be able to **assign or reassign reservations to tables.**

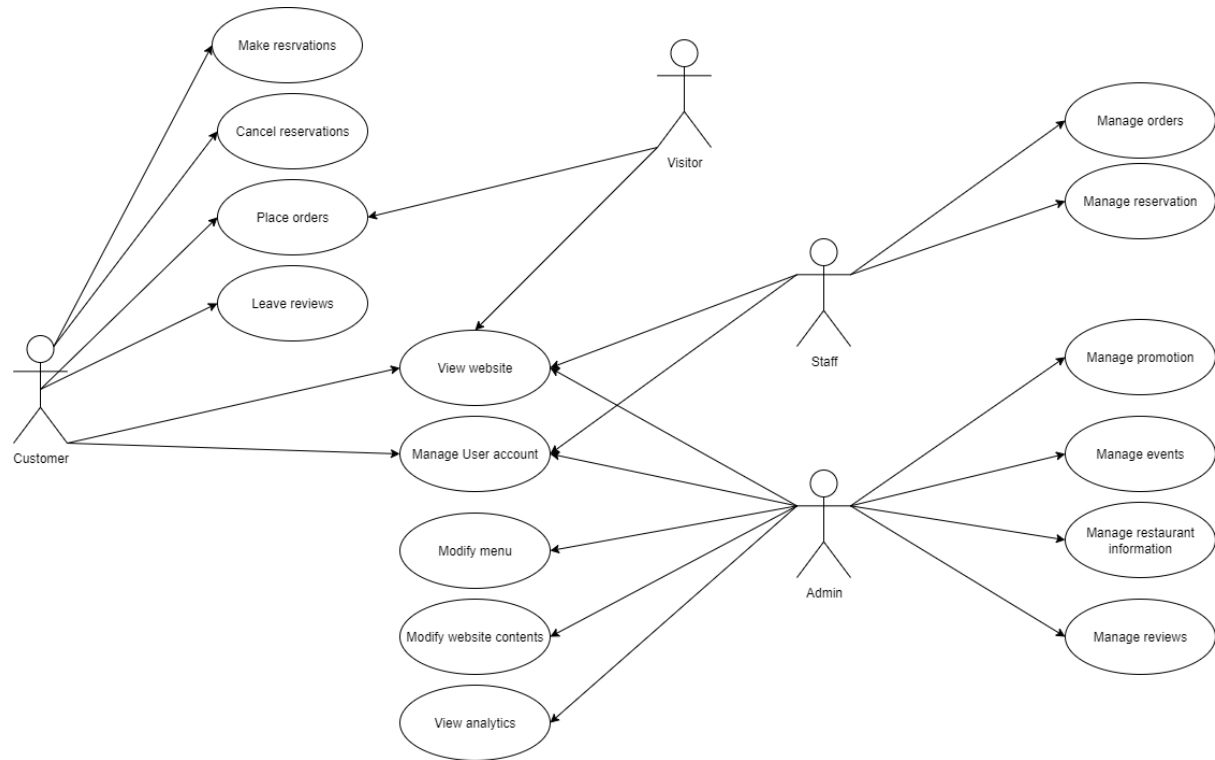
Admin

- Should be able to **manage menu, promotions, events, and opening hours.**
- Should be able to **view and respond to customer reviews.**
- Should be able to **view analytics (popular dishes, busiest hours, promotional performance).**
- Should be able to **export data (orders, reservations, reviews, events)** for reporting.

Diagrams

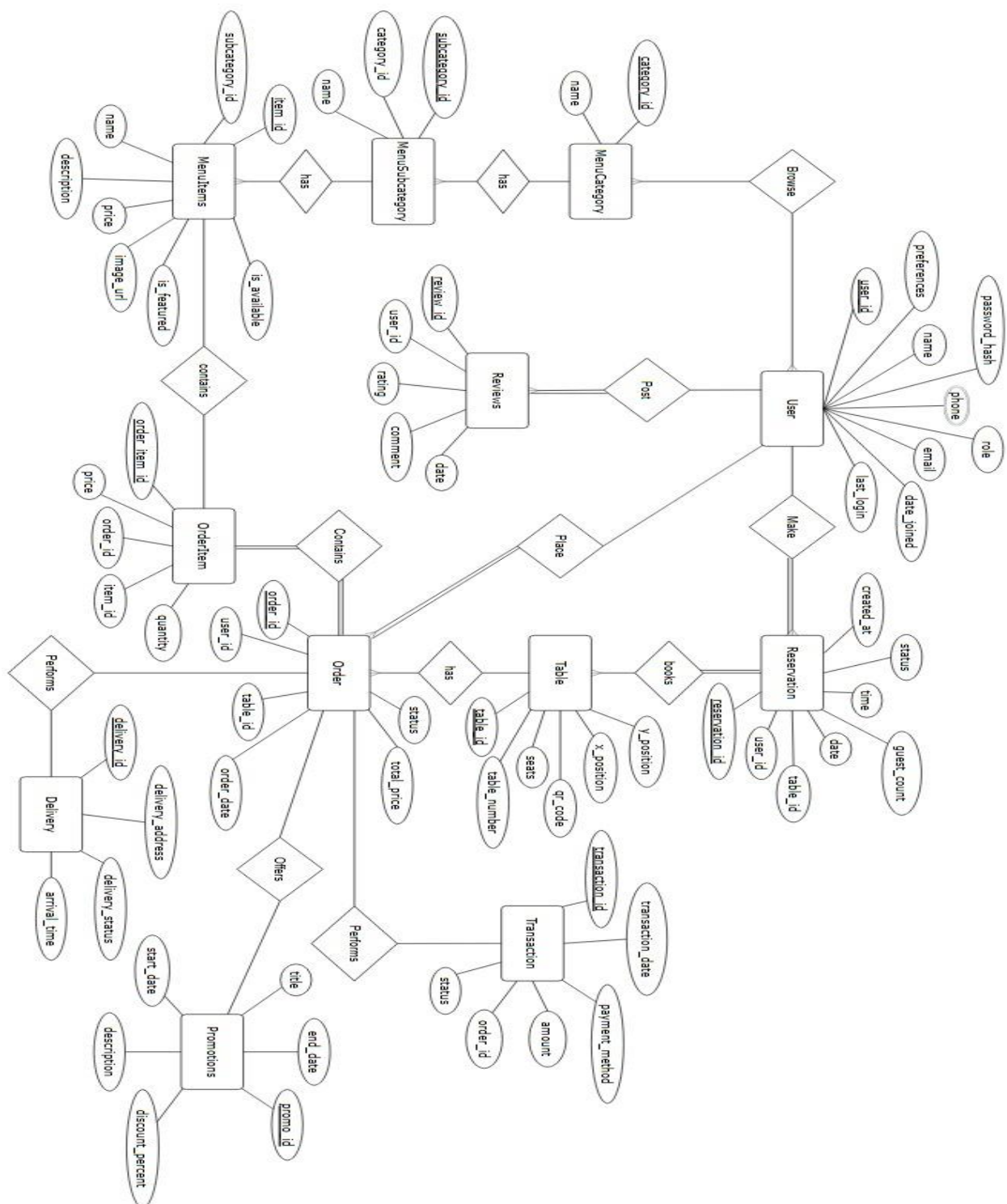
Use case diagram

This diagram illustrates the interactions between the different types of users (Visitor, Customer, Staff, Admin) and the system. It shows the high-level functionalities each role can perform, such as making reservations, placing orders, managing promotions, and viewing analytics.



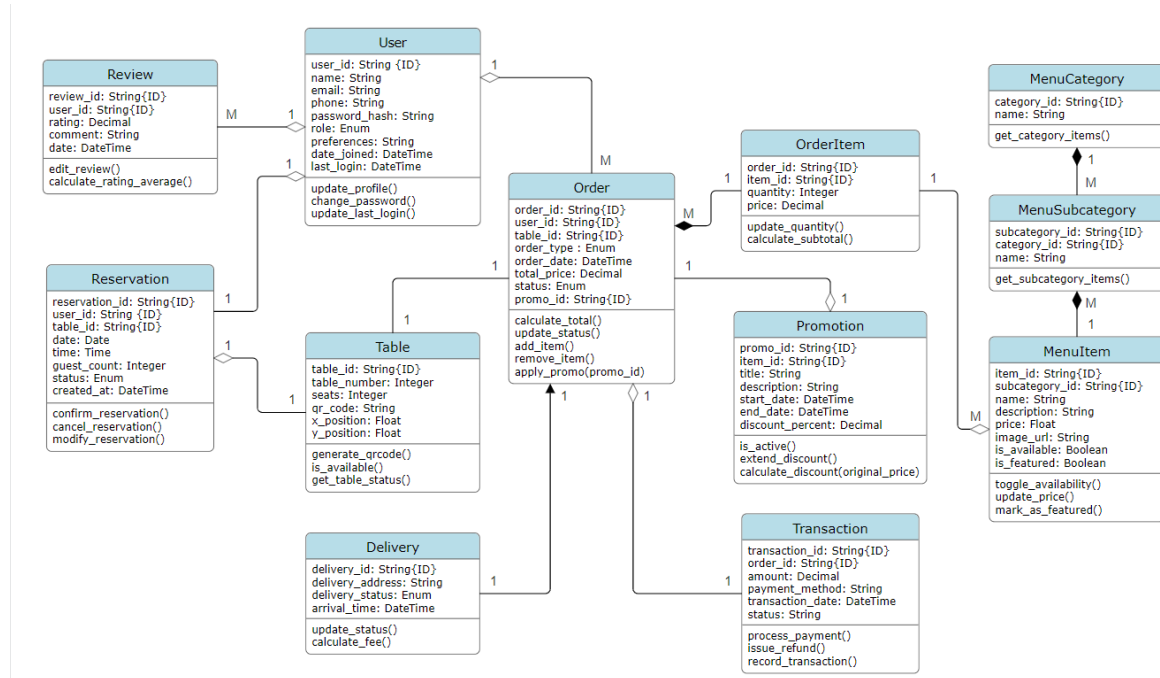
Entity Relationships Diagram(ERD)

The ERD defines the database structure of the restaurant system. It represents the main entities such as Users, Reservations, Orders, Menu, Promotions, Reviews, Tables, and Events, along with their relationships. This logical model forms the foundation for implementing Django models and ensures data consistency.



Class Diagram

The class diagram shows the object-oriented design of the system. Each class maps to a Django model, including attributes and key operations. It also shows associations such as “User makes Reservations”, “Order contains OrderItems”, and “MenuItems belong to Categories”. This bridges the ERD with Django’s MVT framework.



Technology stack

- **Frontend:** HTML, CSS, JavaScript, Tailwind CSS
- **Backend:** Django (Python, MVT)
- **Database:** SQLite(dev) and MySQL when completed and ready for production
- **Version Control:** GitHub - <https://github.com/SupremeMonarch/Escale-Cusine-And-Grill>
- **UI/UX Design:** Figma - <https://www.figma.com/design/IraeVXeF4jqBbIKiI0hI4q/Version-1?m=auto&t=Not9VvX7gatHzWad-6>