RESTAURANT RECOMMENDATION PLATFORM

Zeynep ELİBOL | Gökçe CANER | Helin Sıla KILIÇ | Edanur ŞAHİN | Mehmet Şemdin AKTAY | Ayça AYDIN | Elif AKÖZ | Ali Berk İSLAM | Ekrem ÇAĞLAYAN | Erim ÇAKIR



Yeditepe University Department of Industrial Engineering | Department of Computer Engineering

INTRODUCTION

This project reviews developing a restaurant recommendation website. This website will propose restaurants based on price, taste, service, and speed to help users make decisions. The evaluation of existing similar applications revealed that such applications were not sufficient and could be further improved. This report includes the rationale and objectives for developing a restaurant recommendation website project. It also consists of determining deficiencies by analyzing the current situation of similar applications. It also includes eliminating these deficiencies and determining the features and design of the newly created website

MOTIVATION

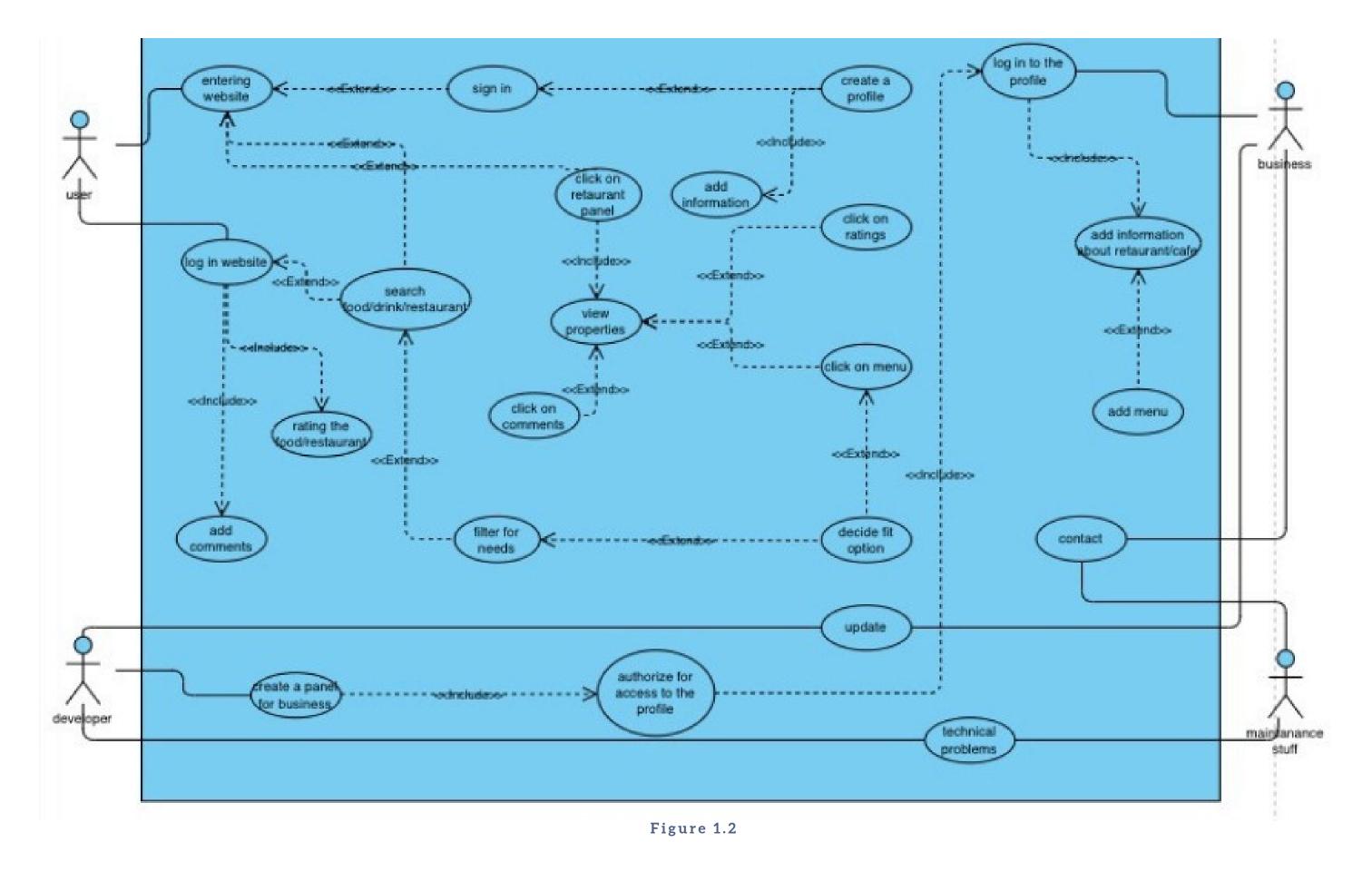
The current situation analysis highlights the limitations of existing restaurant recommendation websites. These platforms lack specific search options and fail to provide users with sufficient information and desired features. The motivation behind creating a new website application is to address these shortcomings. The new website aims to enhance the user experience by offering advanced filtering options based on price, taste, service quality, and speed. It also allows for more specific searches by incorporating filters for location, cuisine type, and other specific factors. The motivation is to create a comprehensive and user-friendly platform that improves the restaurant recommendation process.

USE-CASE DIAGRAM

The use-case describes the scenario where users, who are students of Yeditepe University, utilize our website to find a suitable cafe or restaurant. The website allows users to browse without registration, but certain features require them to register and create a profile. By entering their desired food or drink in the search bar, the website provides a list of cafes/restaurants that match their preferences

Priority Rank	Use Case	Description
High	Entering Website	No progress can be made without this step.
High	Update for business panel	Ensures that information is kept up to date.
High	Create a panel for business	Required to enter business properties.
High	Authorize for access to the Business profile	Important for business to log in.
High	Log in to the Business profile	It is a necessary step to be able to use the features of the system.
Medium	Log in/Sign in Website	Allows the use of the site's features.
Medium	Search for food/drink/restaurant	Reaching the specific food/drink/restaurant wants
Medium	Click on the Restaurant panel	Shows the restaurant you selected
Medium	Add information about restaurant/cafes	Entering the specific features of the restaurant/cafe
Medium	View properties	Viewing the specific features of the restaurant/cafe and getting an idea
Medium	Filter for needs	It provides the feature of selection according to the user's wishes.
Low	Add comments/ Rating food restaurant and food	Using optional evaluation features
Low	Click on comments/menu/ratings	Using optional features
Low	Add menu for restaurant panel	Entering the menu of the restaurant/cafe

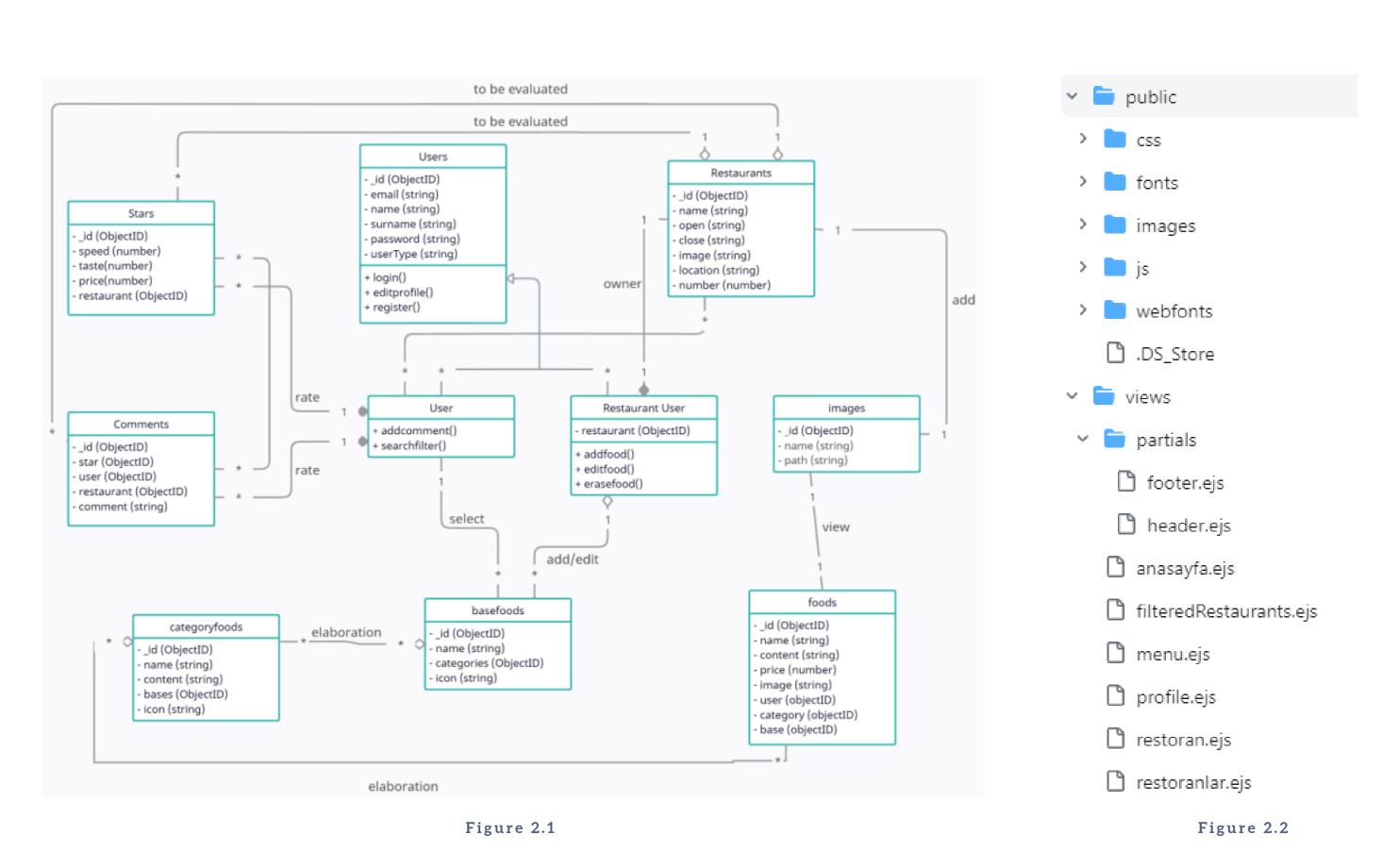
Figure 1.1



ARCHITECTURE & DESIGN (S) E | mongoDB.



- 2. EJS (Embedded JavaScript): It is a template engine used to execute JavaScript code within HTML for dynamic content generation.
- 3. HTML and CSS: These are fundamental web technologies used to design the user interface and apply styling. 4. JavaScript: It is a programming language used both on the server-side and client-side (browser) for various
- functionalities. 5. MongoDB: It is a database management system used to store restaurant data.



USER INTERFACE

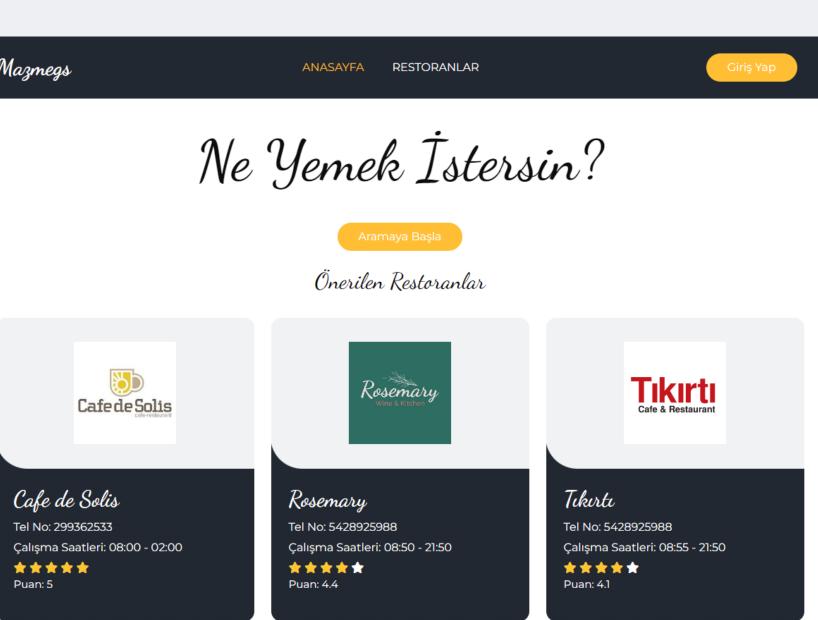


Figure 3.1 - Homepage The recommended restaurants are ranked according to their ratings.

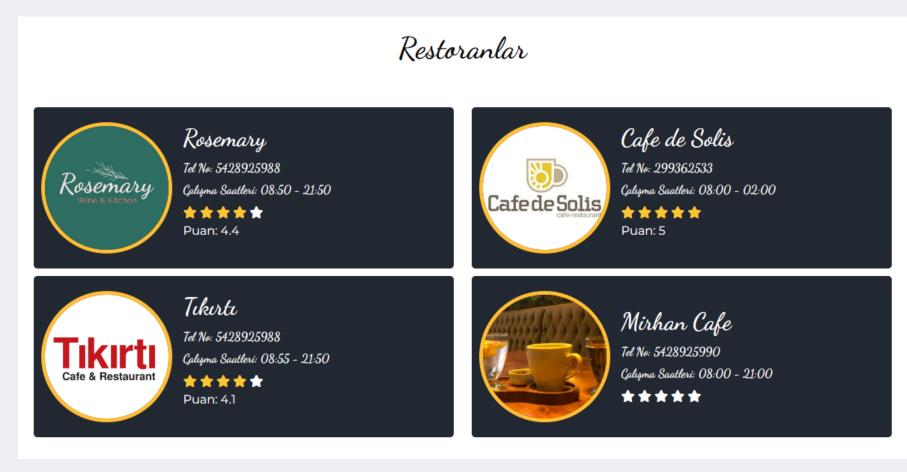


Figure 3.2 - Rastaurants This is the page where all the restaurants are listed.

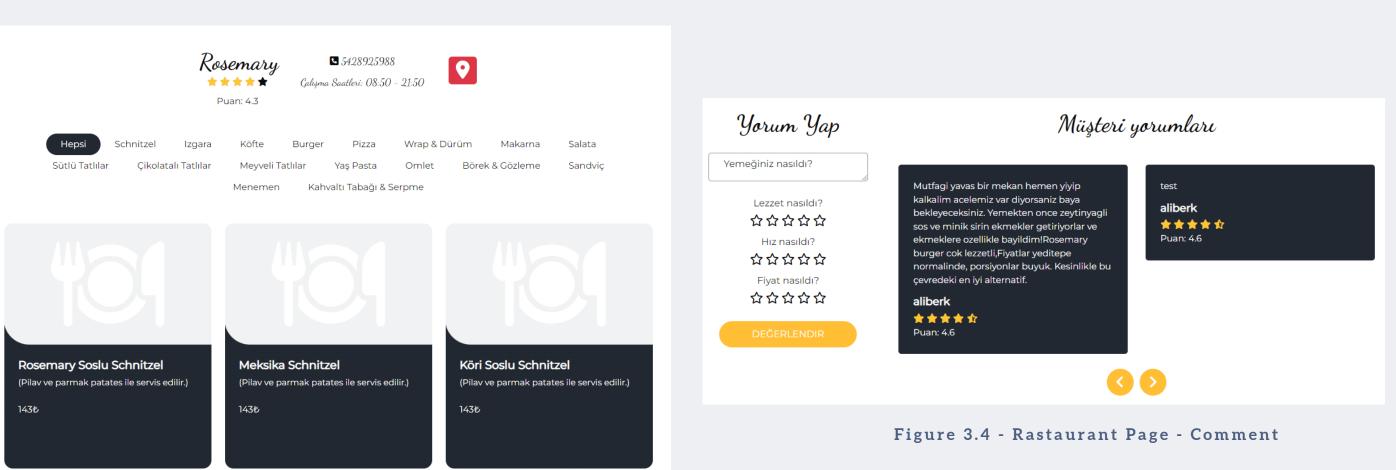


Figure 3.3 - Rastaurant Page

This is the page where the menu of the selected restaurant is listed. Users (only regular users) can leave comments and rate the restaurant.

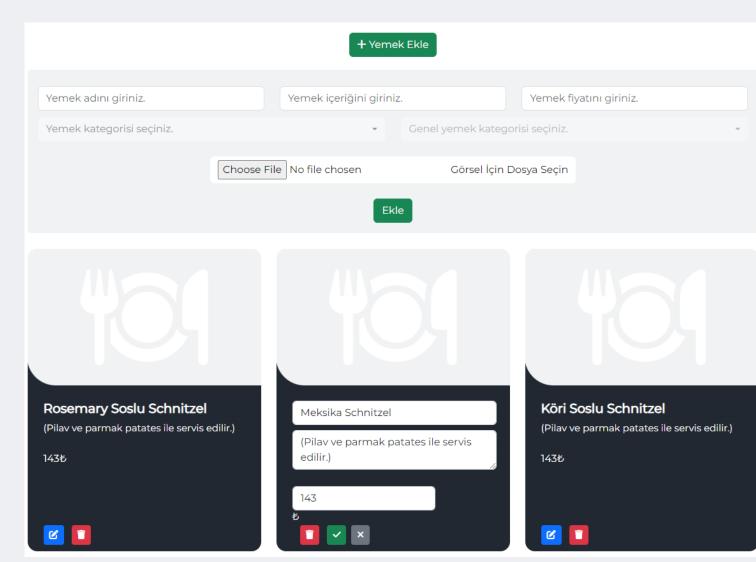
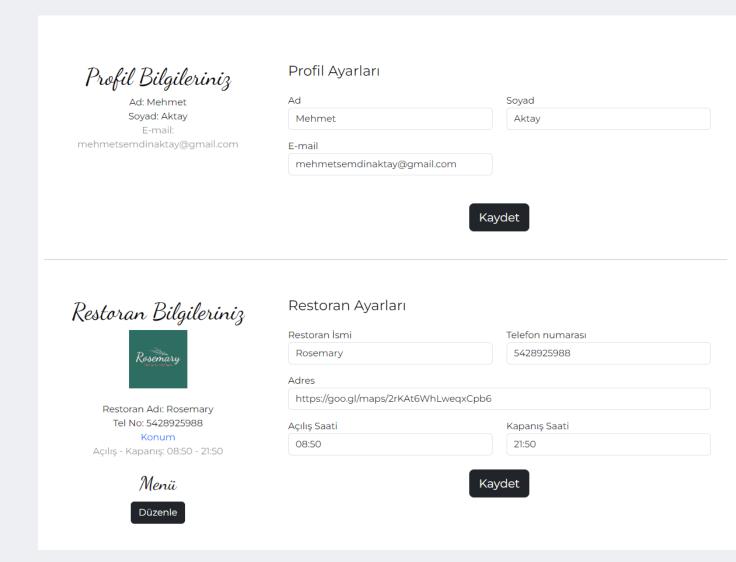


Figure 3.5 - Rastaurant Page For Restaurant Owner

This page is the same as the restaurant page, with the only difference being that the restaurant owner can adjust their own restaurant's menu.



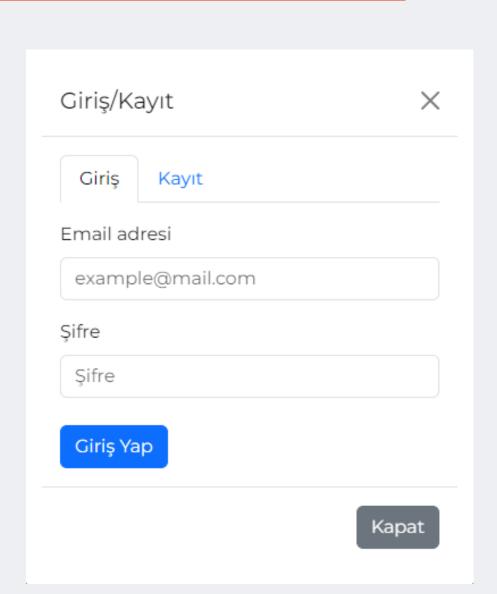


Figure 3.7 - Login

Figure 3.6 - Profile Page

To access the profile page, you can log in through the login section. If you are a restaurant owner, there will be a section where you can adjust the profile information of your restaurant, in addition to other features.





Figure 3.9 - Filtered Restaurants

In this section, after listing the restaurants that contain dishes in the desired categories according to your specified criteria, you will find information on which restaurant has been rated based on the selected features and how many dishes it includes in that category.