Project Website Link: https://bozcomlekci.github.io/CS353-Project/

Ornek Rapor:
https://github.com/cerenuysal/CS-353/blob/master/Reports/Proposal%20Report.pdf

Introduction

We aim to develop an application for a food ordering and delivery system. In this report, we describe our application and explain the reasons for the use of a database, present our functional and non-functional requirements. We will give a conceptual design (E/R Model) of the database we will implement in our application.

Project Description

The food ordering and delivery system will be an online application for customers to make orders on registered restaurants. There are three types of users: customers, restaurant owners and delivery guys. All users will have a unique username and log in with their username and password. Users will have additional information such as their name, email and birthdate. Customers can make orders, review them and mark restaurants as their favorite restaurants. Customers will be able to review both the restaurant and the driver. Customers can add more than one address and phone information to the system and choose a delivery address from those. Restaurant owners can register their restaurants to the system, add food and beverages for their restaurant and create menus from them for customers to order. Restaurant owners will be able to specify the category of the food they add. Restaurants can also view reviews for their restaurant and give responses to them. Restaurants will have average ratings for the food they serve to create an impression on the customers. Additionally, each restaurant will have one address to group the restaurants in the same region. The system will organize the delivery by randomly assigning the order to an available driver.

Why Do We Use a Database?

The food and delivery system requires many entities such as customers, restaurants, foods, beverages etc. With the use of a database we plan to store information related to those entities in an organized and efficient way. Also there are many relations between these entities. The related information to those relations can be obtained using efficient queries between tables. Storing information in a database makes it easy to access data related to customers, restaurants, menus, foods, beverages reviews and addresses.

How Do We Use a Database?

The users will be specialized into three entities; customers, restaurant owners, delivery guys. All users will have a username, password, name, email and a birthdate. The phone numbers of users will also be stored in a database. Additionally, customers will have credit and many addresses. Restaurant owners and their restaurants will be stored in the system. Restaurants' addresses, phone information, menus and items will be stored in the database. Orders made by customers will be stored in the database so a restaurant's past orders or a customer's past orders can be accessed. The reviews made by customers will be stored for restaurants, customers and delivery guys to see.

Requirements:
  Functional
Customers should be able to register with a unique username, unique password, first-name, last-name, birthdate and password

Customers can add credit to their accounts
Customers should have enough credit on their accounts for the order to go through

Customers should be able to order multiple items at the same time
Customers should be able to order from multiple restaurants at the same time

Customers should be able to see their order history
Customers should be able to have favorite restaurants

Customers should be able to leave a review after they have received their order
A review consists of a driver comment, restaurant comment, driver rating and restaurant rating
Restaurant owners should be able to respond to customer reviews

Customers should be able to save multiple addresses with different names
Addresses consist of
Customers should be able to modify their existing addresses

Restaurant owners should be able to add new items to their menus
Restaurant owners should be able to edit existing items on their menus

Delivery personnel should be able to see the address for the current order

  Non-functional
Limitations:

Conceptual Design - E/R Model:

Responsibilities:

Batuhan Ozcomlekci - Non-functional requirements & limitations, Sitenin yapilmasi,
Mustafa Goktan Gudukbay - Diagramin tamamlanmasi, introduction, description
Why do we use database, how do we use database

Yusuf Ziya Ozgul - Limitations Why do we use database, how do we use database

Musa Ege Unalan - Functional Requirements