

# CMPSC 390 – Homework 2

## Project Design & Responsibility Breakdown

### Objective

In Lab 2, your team defined **what you are building**.

In this assignment, you will focus on **how the system will work** and **who is responsible for each part**.

You should already have from Lab 2:

- A defined project idea
- A list of proposed features
- A general direction for your application

### Step 1: Divide Responsibilities (Group)

As a team, decide how work will be divided for **planning and design**.

Most teams will divide responsibilities into areas such as:

- Frontend planning
- Backend logic planning
- Database design

You may divide responsibilities however you prefer, but:

- Every team member must have a clear responsibility
- Responsibilities must be documented

Deliverable:

- A short list mapping **team members** → **responsibility areas**

**Diego Perez → Frontend**

**Micheel & Anthony → Backend**

**Jason → Database**

### Step 2: Select Three Core Features (Group)

From your existing feature list (Lab 2), select **three features** to design in detail.

These should be:

- Central to your application
- Realistic to build during the semester

**Deliverable:**

- Names and brief descriptions of the three selected features:

- User create account/Login

Enables the user to access additional features, and save more information about the users preferences

- Leaving a Review

Allows user to verbalize their opinions on the person or establishment

- Search for locations

Allows users to find locations based on filters such as type or address.

### Step 3: Frontend Design (Individual)

The team member(s) responsible for frontend planning must create wireframes for how users will interact with the system.

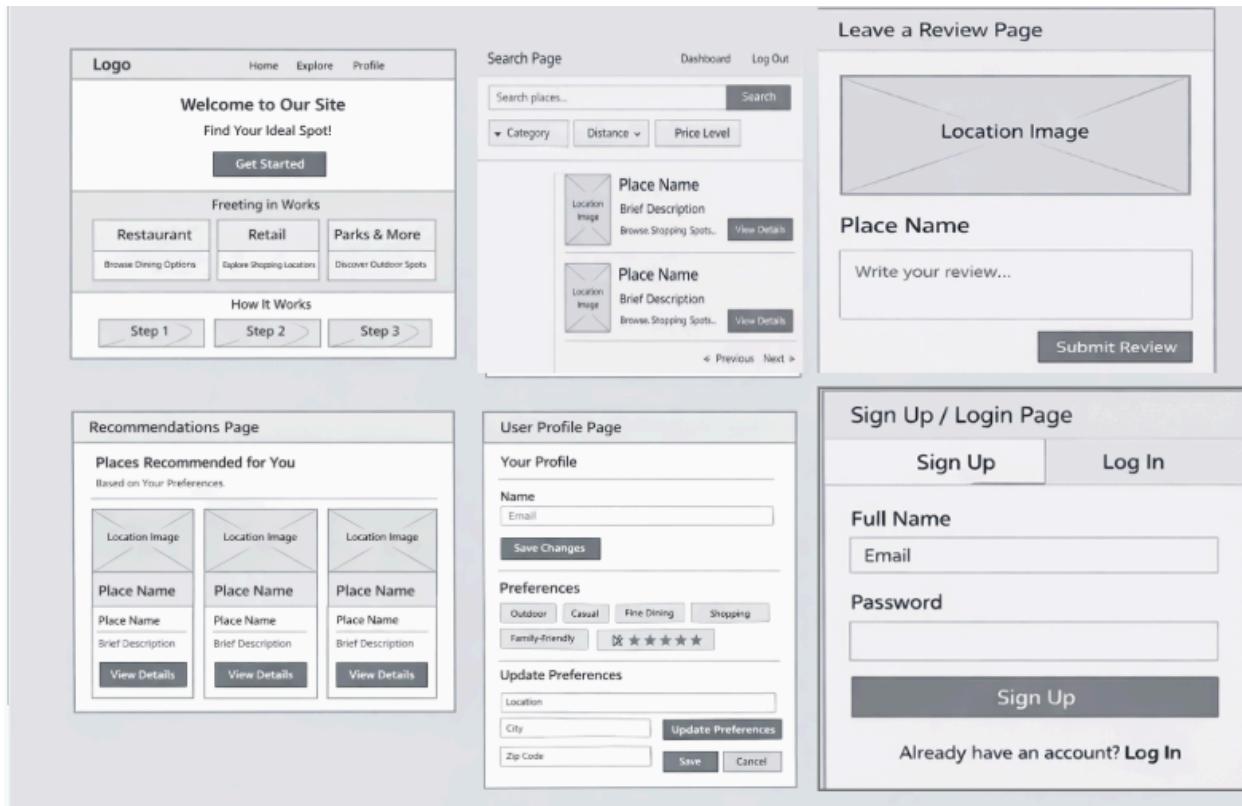
**Requirements:**

- At least **three wireframes**
- One must be the home or landing page
- Navigation between pages should be clear
- Visual consistency across screens

**Deliverable:**

- Wireframe diagrams
- Contributor name(s) listed:

Diego Perez



## Step 4: Backend Logic Design (Individual)

The team member(s) responsible for backend planning must write **pseudocode** for the three selected features.

Each feature should describe:

- User action
- Backend logic
- Database read and or write
- Response returned to the user

Pseudocode should be:

- Language-agnostic
- Clear enough for another developer to implement

### Deliverable:

- Pseudocode for three features
- Contributor name(s) listed: **Micheel & Anthony**

## Step 5: Database Design (Individual)

The team member(s) responsible for data design must define how data will be stored to support the three selected features.

Choose one approach:

### **Relational Database**

- Tables and relationships
- ER diagram

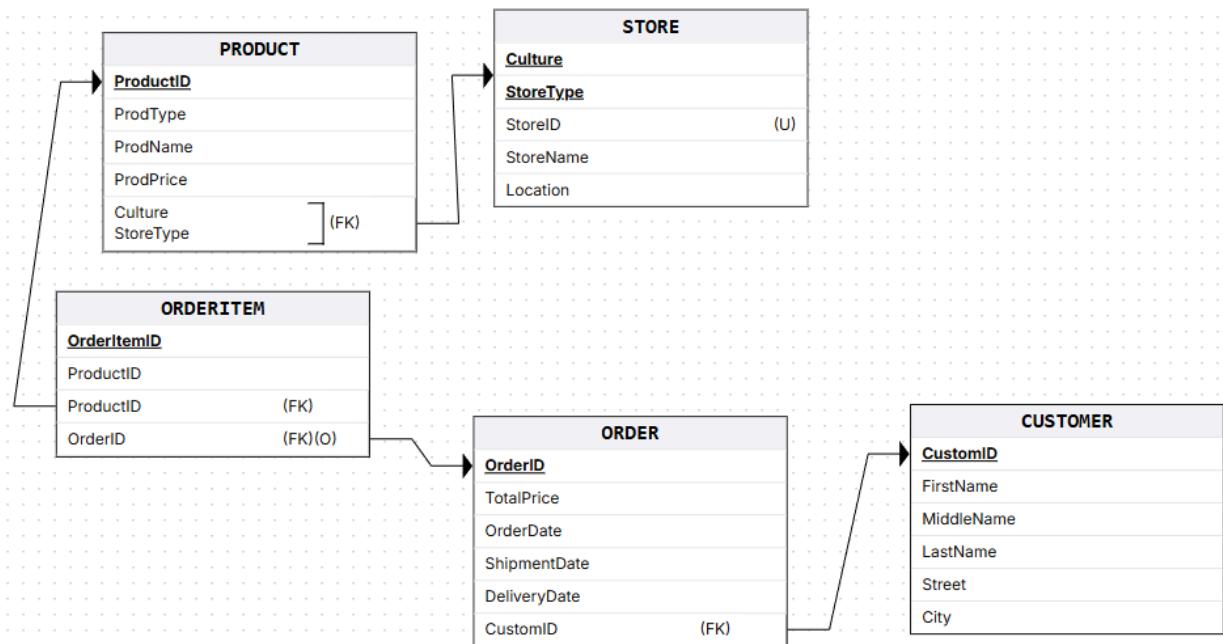
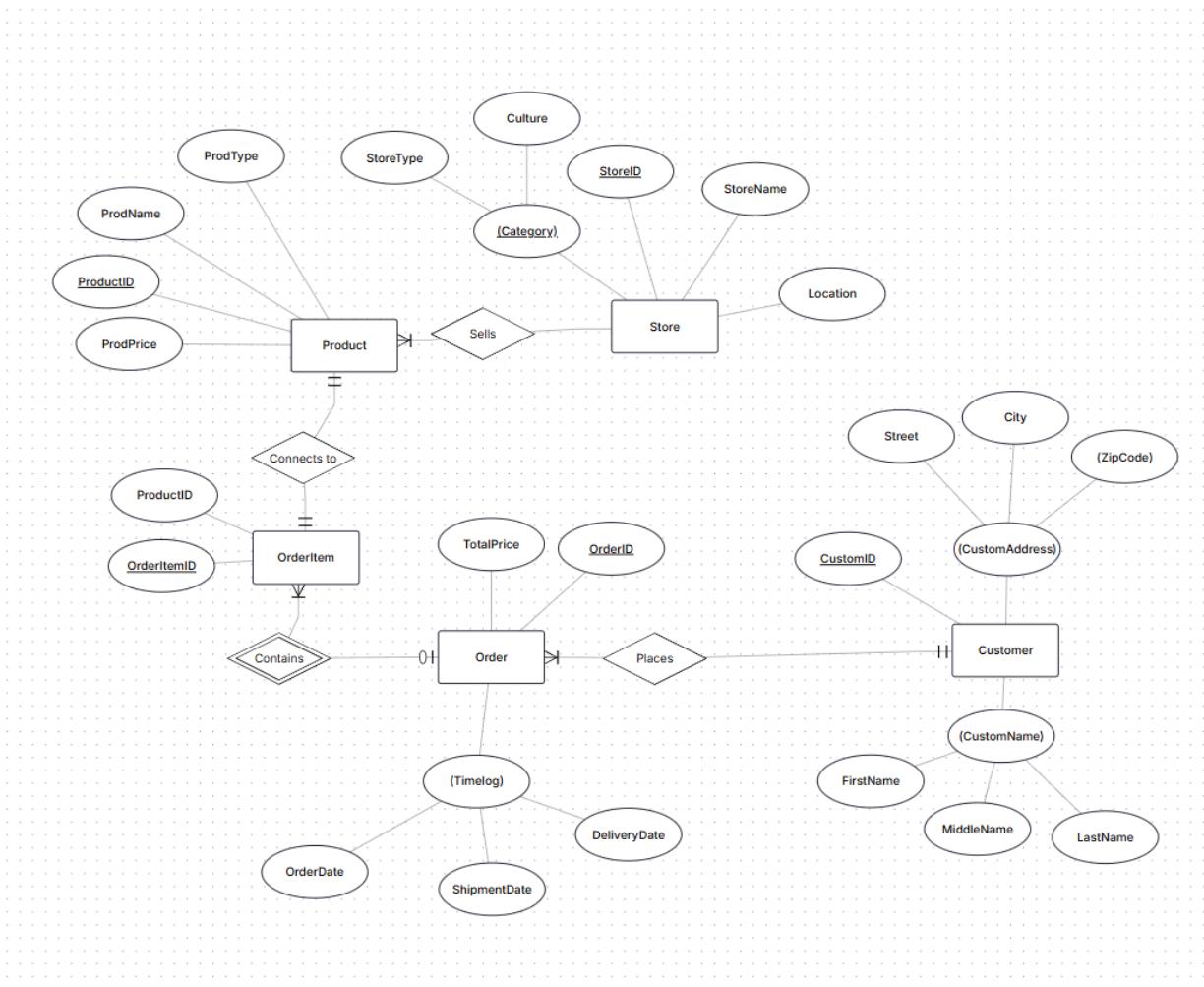
### **NoSQL Database**

- Document structure
- Mock data layout
- Diagram or structured explanation

### **Deliverable:**

- Diagram and explanation
- Contributor name(s) listed:

Jason



## Step 6: Tooling & Hosting Setup (Group)

As a team, ensure the following are set up:

- One GitHub repository with all members/instructor added
- One project board (Trello or equivalent)
- One communication method selected

Instructor access required:

- GitHub: @williamburbatt
- Trello: @williamburbatt2

In addition, identify **one potential hosting approach** for your project.

- Research only
- No deployment required

Deliverable:

- Short write-up describing the hosting option

**We are still deciding on a hosting option but for now our potential choice could be one of the following: Google Firebase, Google Cloud, AWS, or Digital Ocean. We will decide which one soon based on accessibility, free-features and best suited for our web application.**

## Submission Requirements

One submission per team by the Project Manager.

Your GitHub repository must include:

- A documentation folder containing:
- Responsibility breakdown
- Frontend wireframes
- Backend pseudocode
- Database design
- Hosting notes

Submit in Canvas:

- Link to the team GitHub repository