A close-up of a logo

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**Web Development Fundamentals Project**

**CMPS 350 L51**

**Spring 2024**

**Dr. Mucahid Kutlu**

A light bulb with a brain inside

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**Project GitHub Link:**

**Project objectives:**

The main objective of this project is to utilize the knowledge and skills acquired in the CMPS350 course to create an E-commerce platform. This platform will facilitate the buying and selling of items, as well as provide users with the ability to track their transaction history, which will record all activities carried out on the platform.

1. **Design the APP Web UI & Navigation:**
2. **UI wireframe (sketch) to decide the UI components.**

Initially, we began brainstorming the front-end design of the platform based on the specified requirements.

**Requirements**:

The project involves the development of an E-commerce platform accommodating three distinct user roles:

* **Customers**: Individuals interested in purchasing items.
* **Sellers**: Entities seeking to sell items.
* **Admin**: Responsible for overseeing and managing the platform.

Each user type possesses **unique features** and functionalities:

* **Customers** are identified by their name, surname, shipping address, username, password, and monetary balance.
* **Sellers** are characterized by their company name, username, password, and bank account information.
* **Admins** are identified by their username and password credentials.

The platform features a main page serving as the initial interface for users upon visiting. On this page, users can search for items, but the ability to make purchases is restricted to logged-in users. Our E-commerce platform is called Logic Line and it offers a variety of electronic products

A screenshot of a web page

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**Figure 1: UI Sketches**

1. **For each use case, implement the app UI and navigation using HTML, CSS, and JavaScript.**

Demonstrated in demo video.

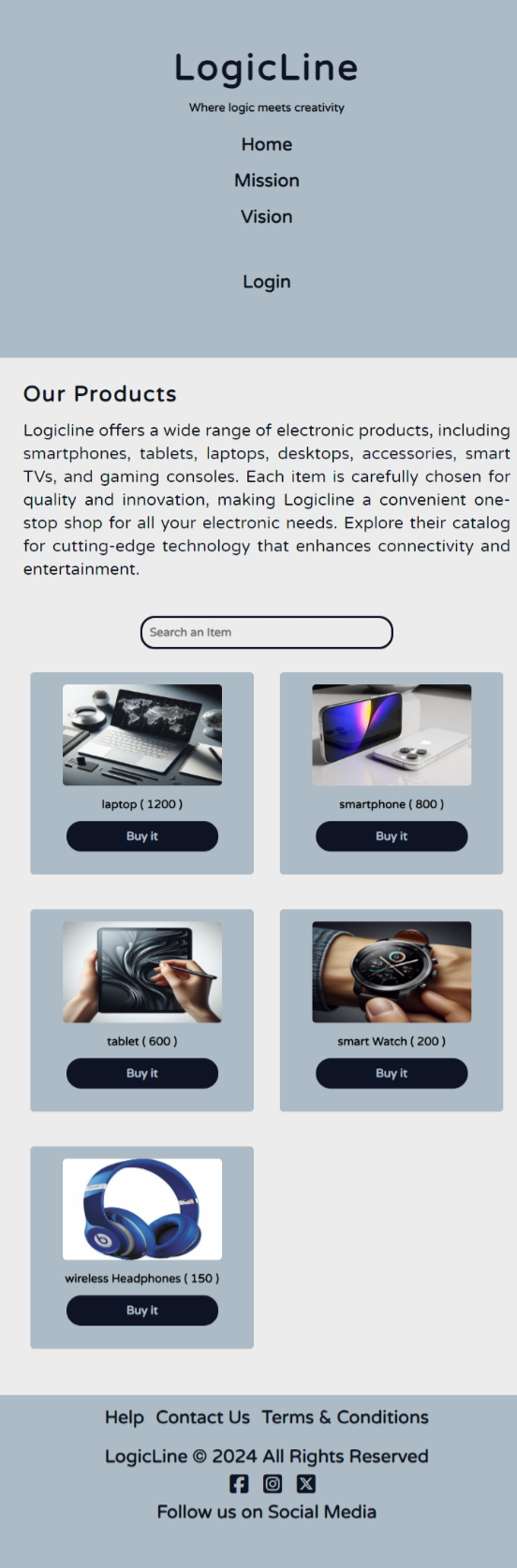
1. **Each page should be responsive to support at least 2 layouts, one for mobile and another for PC.**

Screenshots for responsiveness:

A screenshot of a login page

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**Figure 2: Main Page Big Screen**



**Figure 3: Main-page Small Screen**

A login page with a chip and a computer chip

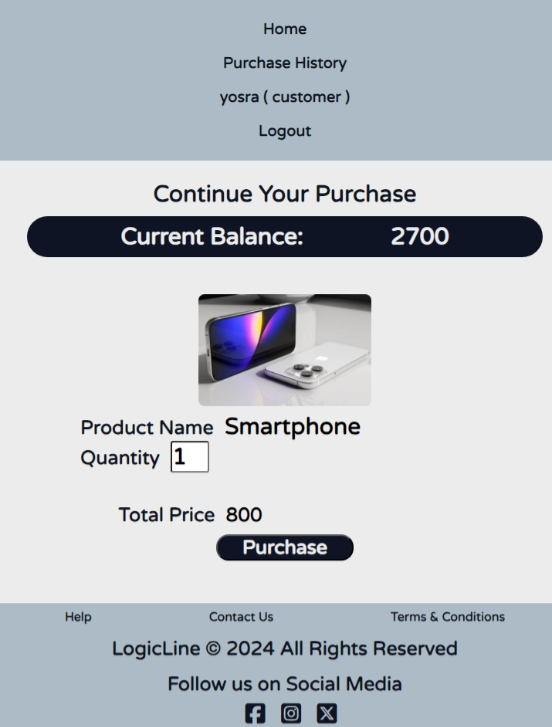
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**Figure 4: Login Small Screen**

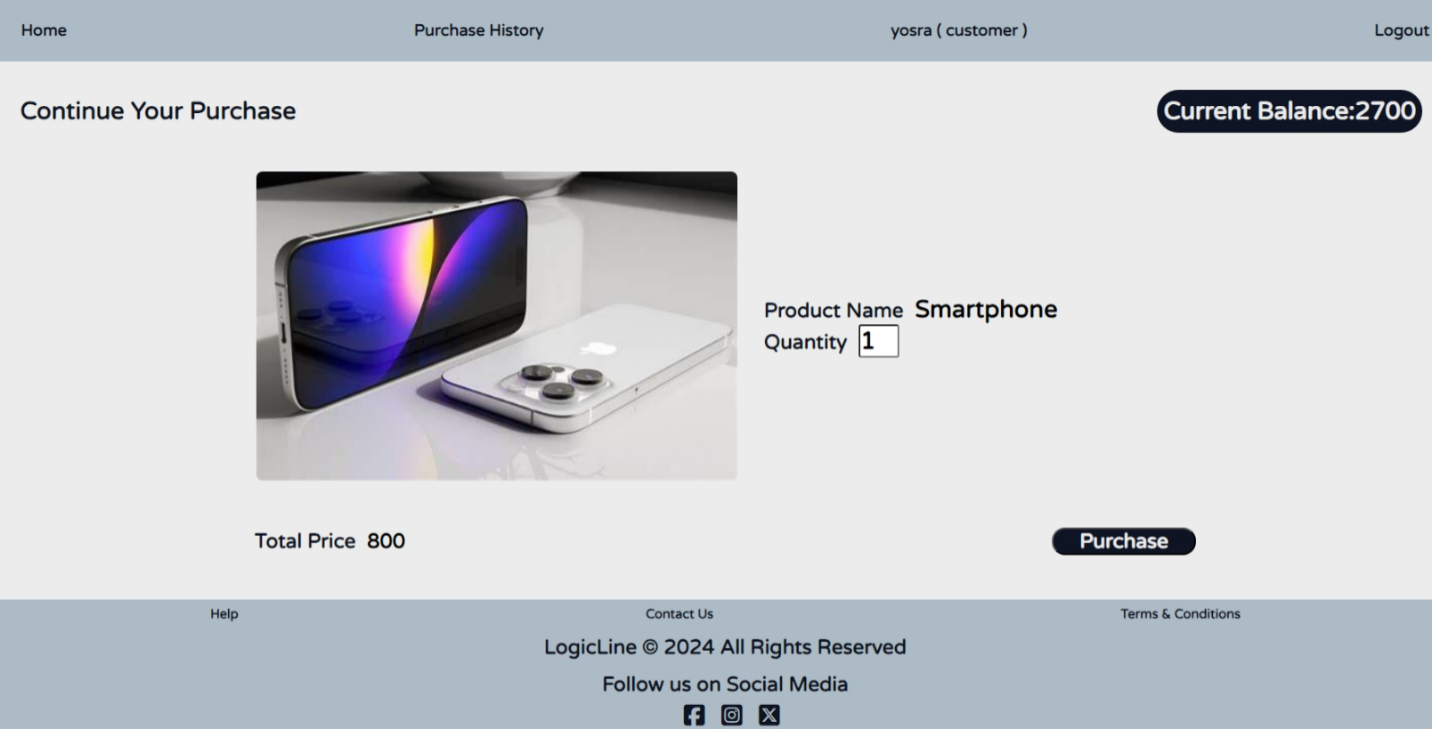
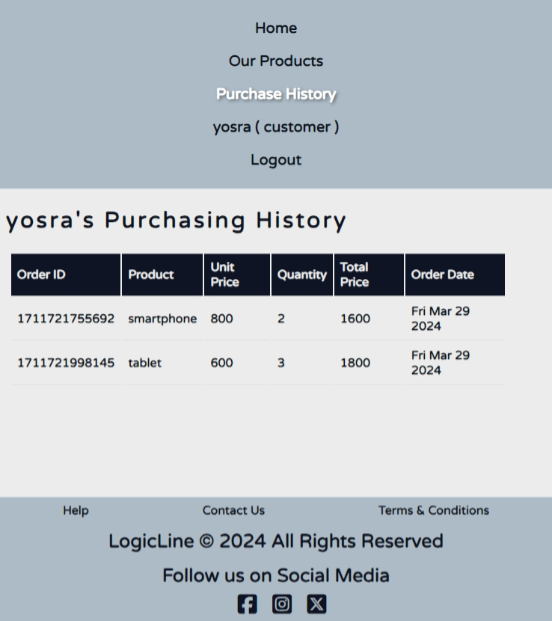
A screenshot of a login page

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**Figure 5: Login Big Screen**

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**Figure 6: Buy-item Small Screen**

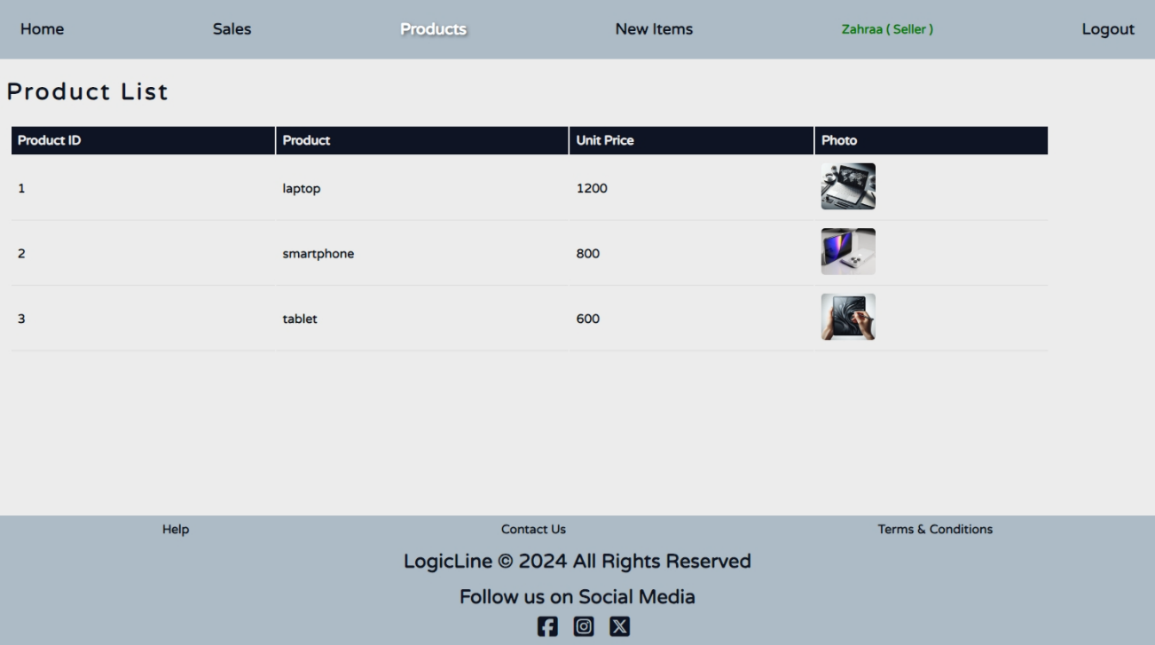
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**A screenshot of a computer

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**A screenshot of a computer

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**A screenshot of a login page

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1. **Design and implement the app navigation to allow the user to navigate from one page to another in intuitive and user-friendly way to achieve the app use cases.**

Demonstrated in demo video.

1. **For phase 1, you can read/write simple JSON files that you need to create and initialize with some sample data.**

Item.json

Users.json

1. **Application design documentation should include the Entities, Repositories and Web API class diagrams**.
   1. **Repositories Class diagrams**.

**<class diagram>**

* 1. **System Use Case Diagram**

A diagram of a person's diagram

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1. **App testing:**
   1. **Screenshots & Explanation**
2. **Challenges and Conclusion**