Bubble Tea Shoppe

Beverage Ordering App Project

October 10, 2020

Introduction

Project Overview

This Bubble Tea Ordering App is a web application which allow user to order their favorite drinks online and get deliver to them. The aim for this project is to create a user friendly and easy-to-use User Interface for the user.

Project Deliverables

This web application should deliver:

1. Entity-Relationship model database and diagrams for users, orders, and deliver.
2. User Registration
    a. User will have to sign up by using inputting username, password, delivery address, payment card id.
3. User Login
    a. User will have to sign into the web application before using it.
    b. The system will validate if the input information matches the information in the database.
4. Menu List
    a. User will be able to order drinks from the menu and put them into the shopping cart.
5. Shopping Cart
    a. User will be able to check out what they have added to the shopping cart.

6. Checkout Page
    a. It is a page to confirm your order and you are paying payment card.
    b. However, this is just a prototype application, therefore, real card information will not be used.
7. Delivery Information Page
    a. After checking out, the page will show you the estimated time for the delivery and the deliveryman's ID.

Project Organization

Tools and Techniques

All the HTML file will be stored in a EC2 instance running by Apache Web Server (AWS). The web content will most probably develop with HTML, CSS, and JavaScript. Since this is just a prototype, the domain name will not applicable, but this web application will be depicted with the EC2 Web Server. The AWS instance will be depending on another EC2 Server that host Tomcat Server. As for the database for this application, MySQL will be utilized in the same EC2 instance as the Tomcat Server. The database will store all user data and orders that user makes. Eclipse IDE will be used to develop Java Servlets.

Project Management Plan

Tasks

1. Create an ER model for the project.

   Description: Create an ideal ER diagram that describe the database tables for the users and orders.

   Deliverable: Entity-Relationship model database and diagrams for users, orders, and deliver.

2. Create the Sign up Page

   Description: Create Sign up page where user can sign up with their account information

   Deliverable: User will have to sign up by using inputting username, password, delivery address, payment card id.

3. Create the User Login Page.

   Description: Create login page where user can input their account username and password to use the application

   Deliverable:

   a. Deliverable: User will have to sign into the web application before using it.
   b. The system will validate if the input information matches the information in the database.

4. Set up database

   Description: Set up database to store signup information and validate sign in information

   Deliverable: Make sure the information will show in the MySQL database.

5. Create Menu list

   Description: Make a menu list where user can view the beverages, they would like to order

   Deliverable: HTML page will import menu information from a json file.

6. Create Shopping Cart

   Description: A HTML page where user can review their “add to cart” item.

   Deliverable: User will be able to check out what they have added to the shopping cart.

7. Create Checkout Page

   Description: It is a page to confirm your order and you are paying payment card.

   Deliverable: Since this is just a prototype application, therefore, real card information will not be used.

8. Create Delivery Information Page

   Description: This page will show you the estimated time for the delivery and the deliveryman’s ID.

   Deliverable: A count down timer will be created in the page using basic JavaScript.

Timetable

Week of October 18th: Start task 1

Week of October 25th: Finish task 1 and Start task 2.

Week of November 1st: Finish task 2, Start task 3 and Start task 4.

Week of November 8th: Finish task 3, task 4 and Start task 5.

Week of November 15th: Finish task 5 and Start task 6.

Week of November 22nd: Finish task 6 and Start task 7.

Week of November 29th: Finish task 7 and Start task 8.

Week of December 6th: Finish task 8 and Polish other minor stuff.