Names of Group Members: Calvin Clocuh, John Harrison, Bruce Brown

Date: August 13th, 2023

Project: CLC Milestone 1
Project chosen: Order Management Application

Project Proposal: Design and Build an Order Management Application using Spring Boot Framework

1. Introduction: We propose a school project to design and develop an Order Management Application using the Spring Boot framework. This project aims to provide the team with hands-on experience in building web applications while learning about modern software development practices. The application will simulate a simplified order processing system, allowing the team to understand the key concepts of web development, database management, and user interface design.

2. Project Objectives: The main objectives of this project are:

- To introduce the team to the Spring Boot framework and its core features.
- To provide practical experience in designing and implementing a web-based application.
- Learn about database modeling, data manipulation, and storage.
- To foster teamwork and collaboration among each other.

3. Scope of Work: The proposed CLC milestone project will cover the following aspects:

- **User Authentication:** Implement a basic user authentication system for administrators and customers.
- **Order Creation and Management:** Develop functionalities to create and manage orders, including adding products, specifying quantities, and tracking order status.
- **Product Inventory:** Design a simple product inventory system to keep track of available products.
- **User Interface:** Create user-friendly web pages for interacting with the application, ensuring a responsive design.
- **Database Integration:** Utilize a lightweight database to store order and inventory data.
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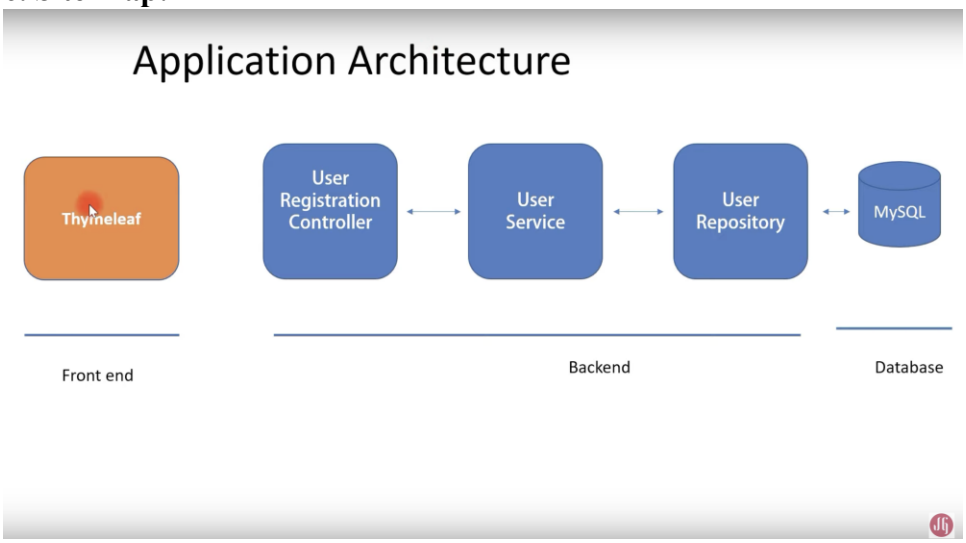
4. Technical Approach: The project will follow these technical approaches:

- Use Spring Boot's MVC architecture for designing the application's structure.
- Use Spring Core (Business and Data Services) and Spring Core (IoC and DI)
- Implement Spring Security for basic user authentication.
- Utilize Spring Data JPA to interact with the database for order and inventory management.
- Build RESTful endpoints to handle various operations.
- Collaboration using platforms like GitHub.

5. Deliverables: The project will result in the following deliverables:

- A fully functional web-based Order Management Application.
- Source code repository containing the application code.
- User documentation explaining the application's features and usage.

6. Site Map:



- Home
  - Login
  - Register

- Dashboard (Authenticated Users)
  - Overview
  - Orders
    - Create Order
    - View Orders
  - Inventory
    - View Products
    - Add Product
  - Profile
    - Update Profile
    - Change Password
    - Logout

- Admin Panel (Admin Users)
  - Dashboard
  - Manage Users
    - View Users
    - Add User
    - Edit User

- Manage Products
  - View Products
  - Add Product
  - Edit Product
- Manage Orders
  - View Orders
  - Process Order
  - Update Order Status
- Reports

  - Inventory Report

- Error Pages

This site map outlines the main sections and pages of your Order Management Application. Users will be able to navigate through the different sections, such as the home page, Dashboard, Inventory, Orders, and Admin Panel (if they have admin privileges). Each section includes specific actions or pages that users can interact with, such as viewing orders, managing products, and generating reports. Error pages are also included to handle cases where users encounter issues while navigating the application.

7. Team and Roles:
I. Project proposal – Calvin Clocuh
II. Planning Documents and site map – John Harrison
III. Design Documents and UI Wireframe – Bruce Brown