

Project Documentation: Sporty shoes phase 3 project

Saksham Bhupal

Java Concepts Used

Object-Oriented Programming (OOP):

Classes and Objects

Inheritance, Polymorphism, Encapsulation, and Abstraction

Java Servlets and JSP:

Handling HTTP requests and responses

Dynamic content generation

Spring Boot:

Simplified configuration and deployment

Dependency injection and AOP

Hibernate:

Object-relational mapping (ORM) framework

CRUD operations and transaction management

JDBC:

Connecting to the database

Executing SQL queries

Admin Features

Manage Products:

Add new products with details like name, description, price, and category.

Update existing product information.

Delete products from the inventory.

Categorize products for easy navigation and filtering.

User Management:

View the list of registered users.

Search users by name or email.
Edit user details or remove users if necessary.

Sprint Planning for Sporty Shoes E-commerce Project

Sprint 1: Setup and Initial Development (2 weeks)

Goals:

Set up the development environment.
Initialize the GitHub repository.
Develop the basic structure of the application.

Tasks:

Project Setup:

Initialize Git repository and push initial commit to GitHub.
Set up the development environment with necessary tools and frameworks.

Frontend Skeleton:

Create basic HTML templates for home, product listing, product detail, and admin pages.
Set up basic CSS for layout and styling.

Backend Skeleton:

Set up a Spring Boot project.
Create basic RESTful endpoints for products and users.

Database Setup:

Set up the database schema for products and users.
Configure database connection in the Spring Boot application.

Deliverables:

Basic project structure pushed to GitHub.
Initial frontend and backend setup with database connection.

Sprint 2: Admin Features Development (2 weeks)

Goals:

Develop core admin functionalities.
Implement user authentication and authorization for the admin.

Tasks:

Admin Authentication:

Implement admin login functionality.
Set up user authentication and session management.

Product Management:

Develop CRUD operations for products.
Implement product categorization feature.

User Management:

Create admin interface to view, search, and manage users.

Admin Password Management:

Implement feature for admin to change password.

Deliverables:

Admin login and session management.

Fully functional product and user management features.

Sprint 3: User and Purchase Management (2 weeks)

Goals:

Implement user signup and management features.

Develop purchase reporting features for admin.

Tasks:

User Signup and Management:

Implement user registration and profile management.

Develop user login and authentication.

Purchase Reports:

Create functionality to view purchase reports filtered by date and category.

Frontend Enhancements:

Enhance frontend templates with dynamic data from the backend.

Improve UI/UX based on feedback.

Deliverables:

User registration and profile management.

Purchase reporting features for admin.

Enhanced frontend with dynamic content.

Sprint 4: Testing and Final Adjustments (2 weeks)

Goals:

Conduct thorough testing of the application.

Make final adjustments and optimizations.

Tasks:

Testing:

Perform unit testing for individual components.

Conduct integration testing for overall application flow.

Carry out user acceptance testing (UAT) with sample data.

Bug Fixes and Enhancements:

Fix bugs identified during testing.

Implement enhancements based on user feedback.

Documentation:

Prepare technical documentation for the project.
Create a user guide for admin functionalities.
Deliverables:

Fully tested and optimized application.
Complete documentation for stakeholders.

Sprint 5: Deployment and Presentation Preparation (1 week)

Goals:
Deploy the application on a staging environment.
Prepare for the presentation to stakeholders.
Tasks:

Deployment:
Set up a staging environment (e.g., AWS, Heroku).
Deploy the application and ensure it runs smoothly.
Presentation Preparation:
Prepare the specification document.
Create a presentation highlighting key features and functionalities.
Rehearse the presentation to ensure clarity and confidence.
Deliverables:

Deployed application on staging environment.
Ready-to-present specification document and presentation slides.

Github repository:

<https://github.com/FrTrainingSakshamBhupal/CourseEndPoject2-springboot>