

Bryan Gaskins

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Caltech CTME PGP: Full Stack Web Dev

Phase 3: Assessment: Make an E-commerce Website for Sporty Shoes / Specs

GitHub: https://github.com/bgaskins/sporty_shoes

Project objective:

As a Full Stack Developer, complete the features of the application by planning the development and pushing the source code to the GitHub repository.

Background of the problem statement:

Sporty Shoes is a company that manufactures and sells sports shoes. They have a walk-in store, and now, they wish to launch their e-commerce portal sportyshoes.com.

You're asked to develop a prototype of the application. It will be then presented to the relevant stakeholders for budget approval. Your manager has set up a meeting where you're asked to do the following:

- Presenting the specification document which has the product's capabilities, appearance, and user interactions
- Setting up Git and GitHub account to store and track your enhancements of the prototype
- Explaining the Java concepts used in the project
- Discussing the generic features of the product:
- There will be an admin to manage the website. An administrator login will be required to access the admin page.

The admin should be able to change his password if he wants, he should be able to:

- Manage the products in the store including categorizing them
- Browse the list of users who have signed up and be able to search users
- See purchase reports filtered by date and category

Core Concepts Used:

1. **Java 8 & Above**
2. **MySQL**
3. **Maven**
4. **MVC Model**
5. **Spring Framework**
6. **HTML/CSS**
7. **Git/GitHub**
8. **Scrum**

Sprints

The Sporty Shoes Admin Website/Portal was completed in two sprints—each sprint was three days long.

Sprints were completed as follows:

Sprint One:

- Plan flow of website
- Build databases in MySQL for customers, products, and admin credentials
- Build forms and jsp pages for Login, Registration and Password Reset
- Create the models, service implementors, controllers and define the endpoints
- Fix any current bugs

Sprint Two:

- Add design elements to Login, Registration, Password, Database pages using CSS
- Test code, functionality, and design to ensure the website is ready for owner
- Write final specification doc
- Product release

USPs

- The Sporty Shoes website and dashboard have an easy to use interface for every day users and their viewing/administrative needs
- Users have access to all available products, customer purchase records and various customer reports
- Users can search for a specific purchase report by date and product category. They can also categorize products and search for a specific customer stored in the Sporty Shoes database
- The website was built to handle user errors (login, password reset) by directing users to input correct credentials in order to gain access to the dashboard

Conclusions

What's next?

The Sporty Shoes website/dashboard is currently ready for use. There are some improvements that can be made for the Sporty Shoes website 2.0.

- Option for Admin to add and sort specific products via the dashboard
- Ability to update customer details from dashboard
- Add editing features for product orders and product details