

# Sporty Shoes

## (Sprint work and Project Specification)

### Version History:

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Purpose	Scrum details and specifications of the application
Date	21 <sup>st</sup> January 2023
Version	1.0

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## 1. Modules in the project

1. Sporty Shoes homepage which displays product listed in the database and have four options Login, Register, Admin and Cart.
2. User can click on Add to Cart option of any listed products to proceed with the purchase. The products data are fetched from the MySQL database, connected to server via Spring Data JPA, and is hosted on AWS RDS for MySQL.
3. Once a user selects the checkout button, they will be taken to the checkout page to fill in their shipping/billing details and proceed to payment gateway.
4. After clicking on Pay Now button users are redirected to the Paytm payment gateway page for making dummy payment.
5. From the payment gateway, users are redirected to a purchase confirmation page with the details of the purchase.
6. For the above features to work, there is an admin backend with the following features:
  - An admin login page, where anyone can register as an admin can add, edit, and delete the products.
  - Admin can also access the purchase history and registered users list.

## 2. Sprint wise work

Sprint number	Modules
1	Design homepage and user security.
2	Fetch available products from database and display on the homepage.
3	Cart page with details of product and checkout page integrated with Paytm API gateway for test environment. Confirmation page with summary of all the purchased product details.
4	Admin Login page and Admin Dashboard page with all the products data fetched from the database along with purchase details and add flight button. Testing. Deployed on <i>AWS Elastic Beanstalk</i> after creating a war file using Maven build.

## 3. Project Link

Repository Name	<b>Sporty Shoes</b>
GitHub Link	<a href="https://github.com/Jaydeep-K-Mandal/Sporty-Shoes">https://github.com/Jaydeep-K-Mandal/Sporty-Shoes</a>

## 4. Core Java Concepts Used

- Working with database (MySQL)
- Naming Standards
- Exceptions
- Modularity
- Object Oriented Programming
- Collections
- Control structures
- Data Structures
- Hibernate
- Spring Boot
- Spring Security
- Spring Data JPA
- Thymeleaf

## 5. Tools and Technologies Used

- Thymeleaf, HTML, CSS, Bootstrap for **View**.
- Spring Boot as **Controller**
- MySQL database using Hibernate for **Model** to create tables for admin, users and product. Hosted on a remote server at AWS RDS.
- Tomcat 9.0 as an Application Server.
- Eclipse: As an IDE to code for the application.
- Java: A programming language to develop the web pages, databases.
- Maven: To create a web-enabled Maven project and build deployable war file.
- Git: To connect and push files from the local system to GitHub
- GitHub: To store the application code and track its versions
- Scrum: An efficient agile framework to deliver the product incrementally.