**Make an E-commerce Website for Sporty Shoes**

Course-end Project 1

**From: Rahul Sharma**

Description

As a Full Stack Developer, I have completed the features of the application by planning the development and pushing the source code to the GitHub repository. The project is completed in 47 Steps.

1 Base project setup is done via springboot

2 pom.xml and application.properties files finalized

3 admin entity finalized

4 cartitem entity finalized

5 category entity finalized

6 product entity finalized

7 purchase entity finalized

8 purchaseitem entity finalized

9 user entity finalized

10 admin DAO and related admin Service finalized

11 category DAO and related category Service finalized

12 product DAO and related product Service finalized

13 purchase DAO and related purchase Service finalized

14 purchaseitem DAO and related purchaseitem Service finalized

15 user DAO and related user Service finalized

16 home controller and related index.jsp finalized along with header footer and topbar jsp files

17 dashboard controller finalized

18 login.jsp and edit profile controller & related edit profile jsp finalized

19 edit profile action controller and dashboard jsp finalized

20 login controller finalized

21 login action controller finalized

22 logout and register confirmation controller with related register confirmation jsp finalized

23 register confirmation jsp finalized

24 signup controller with related register jsp finalized

25 signup action controller finalized

26 cart controller with related cart jsp finalized

27 cart add item controller finalized

28 cart delete item controller finalized

29 checkout controller with related checkout jsp finalized

30 complete purchase and confirm controller with related confirm jsp finalized

31 gateway controller with related gateway jsp finalized

32 purchase controller with related purchases jsp finalized

33 admin header, footer amd topbar jsp finalized

34 admin login and admin login action controller with related admin login and admin dashboard jsp finalized

35 admin categories controller with related admin categories jsp finalized

36 admin change password controller with related admin change password jsp finalized

37 admin dashboard controller finalized

38 admin delete category and admin delete product controller finalized

39 admin edit category controller with related admin edit category jsp finalized

40 admin edit product controller with related admin edit product jsp finalized

41 admin logout controller finalized

42 admin members controller with related admin members jsp finalized

43 admin products controller with related admin products jsp finalized

44 admin purchases controller with related admin purchases jsp finalized

45 admin edit category action/update category controller finalized

46 admin change password action/update password controller finalized

47 admin edit product action/update product controller finalized

**The Sporty Shoes portal provides following features to the User:**

* An end to end ecommerce solution to the user where he/she can track his/her activity via the Cart and Order History.
* Once the cart is finalized, user can go ahead to make the payment for the cart via secured payment gateway.

**The Sporty Shoes portal provides following features to the Admin:**

* 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
* The admin is able to change his password if he wants

**I have used:**

* Eclipse IDE to code for the application
* Java: A programming language to develop the web pages, databases, and others
* **H2**: To create tables for various entities
* **SpringBoot**: To create a web, H2 and JPA enabled Maven project
* **JPA Hibernate** to connect with the database
* **Spring Model View Controller** to setup and develop the project efficiently
* 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
* Search and Sort techniques: Data structures used for the project

**Conclusion:**

* All steps are passed to GitHub repository:

<https://github.com/hirahul0011/Assessment_SportyShoes>

* + Project and developer details
    - Project: **E-commerce Website for Sporty Shoes**
    - Developer: Rahul Sharma
  + Core concepts used in the project: **H2, JPA Hibernate, Spring Model View Controller, Session management techniques**, Searching and sorting techniques, Dynamic data pulling from the session, **CURD operations** on the database through JPA Hibernate.
  + Conclusions on enhancing the application and defining the USPs (Unique Selling Points)
* Application is not closing, exiting, or throwing an exception if the user specifies an invalid input.
* Application takes the inputs from the user and response accordingly, this way it runs dynamically.