

Sporty Shoes

Project and developer details

Company name : Sporty Shoes Pvt. Ltd.

Business goal : 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.

Developer details:

Name	Nirosh Prakash
Designation	Full stack developer
Company	Sporty Shoes Pvt. Ltd.

Sprint planning

Sprint 0:

- Requirements gathering.
- Requirements analysis.
- Project estimation.
- Development sprints planning.

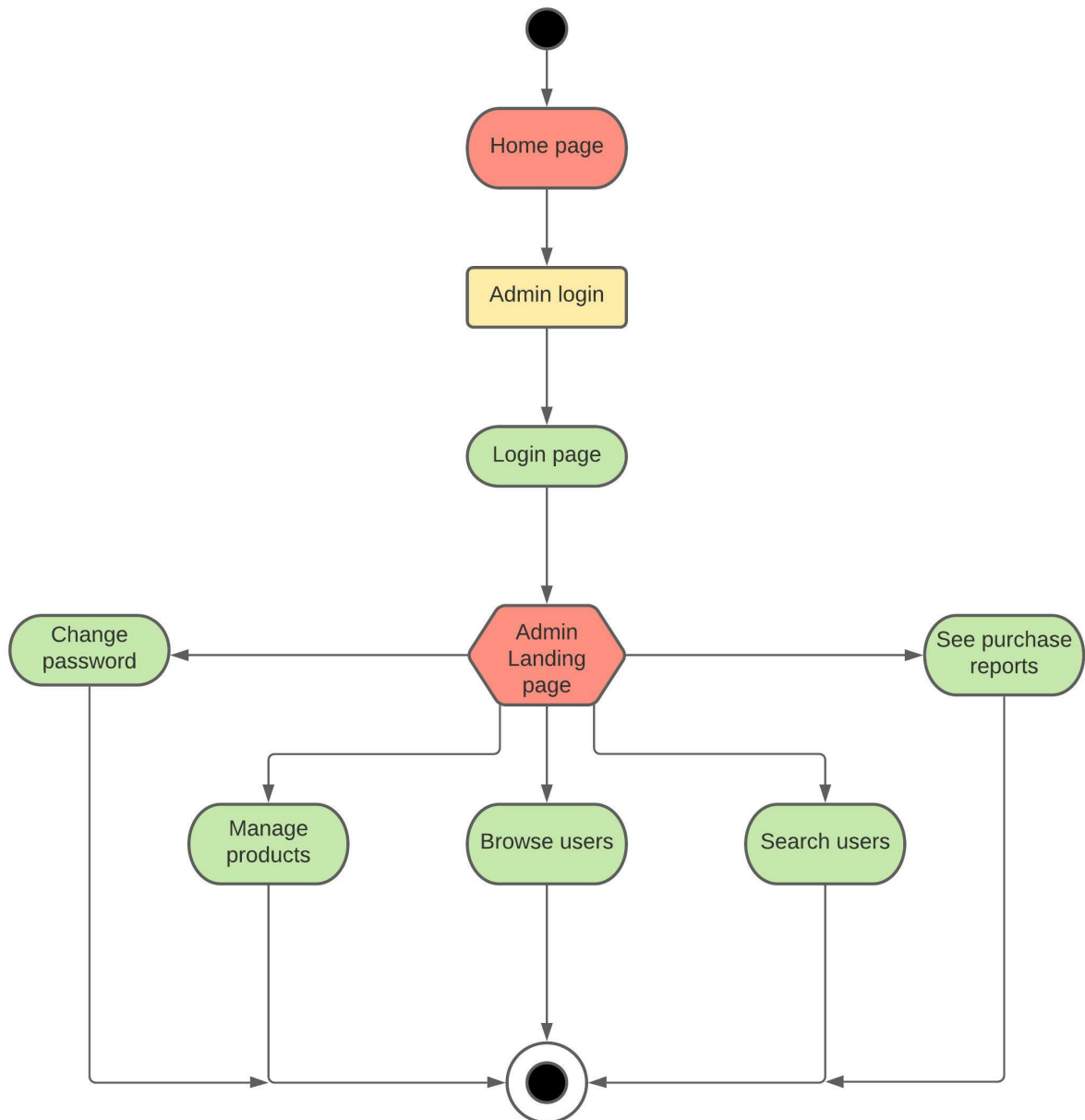
Sprint 1:

- Setting up of codebase.
- Creating a github repository and pushing the code base.
- Development activities.

Sprint 2:

- Create specification document with flow of application and flow chart.
- List core concepts and algorithms beings used in the application.
- Bug fixes.

Application flowchart



Core concepts used in the project

Language used for development : Java

Key core concepts:


- Object oriented programming in Java.
- Spring Boot.
- JPA.
- Hibernate.
- Control statements.
- Exception handling.
- Maven.
- SQL.

Product capabilities

Sportyshoes.com is a prototype web portal that provides admin login capabilities and is capable of performing the following operations:

1. Allow admin user login.
2. Allow admin users to change their login password.
3. Business level operations for admin users:
 - Manage products with capabilities to add, update and delete products.
 - Allow logged in admin users to view all users who have signed up.
 - Search for specific users who have signed up.
 - View purchase reports.
3. Close the application.

Project creation snapshot

 **spring** initializr

Project
☒ Maven Project
☐ Gradle Project

Language
☒ Java ☐ Kotlin
☐ Groovy

Spring Boot
☐ 2.6.0 (SNAPSHOT) ☐ 2.6.0 (M2)
☐ 2.5.5 (SNAPSHOT) ☒ 2.5.4 ☐ 2.4.11 (SNAPSHOT)
☐ 2.4.10

Project Metadata
Group

Dependencies ADD DEPENDENCIES... CTRL + B

Spring Web WEB
Build web, including RESTful, applications using Spring MVC.
Uses Apache Tomcat as the default embedded container.

Spring Data JPA SQL
Persist data in SQL stores with Java Persistence API using
Spring Data and Hibernate.

JDBC API SQL
Database Connectivity API that defines how a client may
connect and query a database.

H2 Database SQL
Provides a fast in-memory database that supports JDBC API
and R2DBC access, with a small (2mb) footprint. Supports
embedded and server modes as well as a browser based
console application.

Thymeleaf TEMPLATE ENGINES
A modern server-side Java template engine for both web and
standalone environments. Allows HTML to be correctly
displayed in browsers and as static prototypes.

Artifact

Name

Description

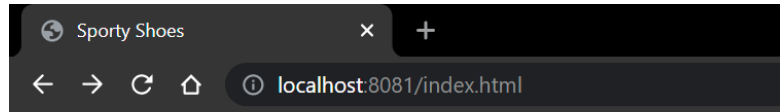
Package name

Packaging ☒ Jar ☐ War

Java ☐ 16 ☒ 11 ☐ 8

Application snapshots

Home page:



Welcome to Sporty shoes

Admin login

Admin login page:

A screenshot of a web browser window showing the admin login page. The tab is labeled 'Sporty Shoes admin login'. The address bar shows 'localhost:8081/adminlogin.html'. The page content is centered and enclosed in a light gray box. It has a title 'Login', followed by two input fields labeled 'User name' and 'Password', and a green 'Login' button at the bottom.

Login

User name

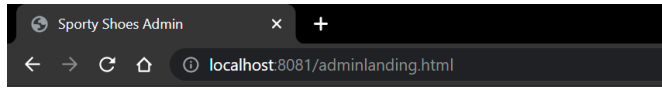
Enter Username

Password

Enter Password

Login

Admin landing page:



Welcome to Sporty Shoes admin console

Change password

Choose from below options:

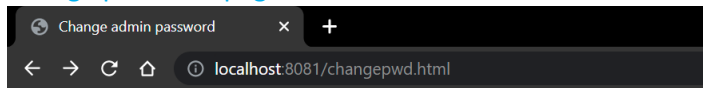
Manage products

Browse users

Search users

See purchase reports

Change password page:



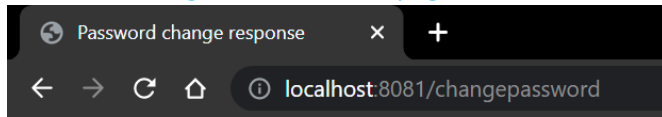
Sporty shoes - Change admin password

Old Password

New Password

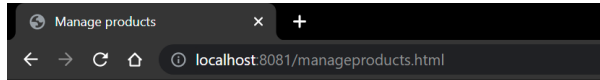
Submit

Password changed confirmation page:



Password change successful.

Manage products page:



Sporty Shoes - Manage products console

Add product:

Product name:

Brand:

Price:

Add product

Update product:

Product Id:

Product name:

Brand:

Price:

Update product

Delete product:

Note: You cannot delete a product for which a purchase is already made.

Product Id:

Delete product

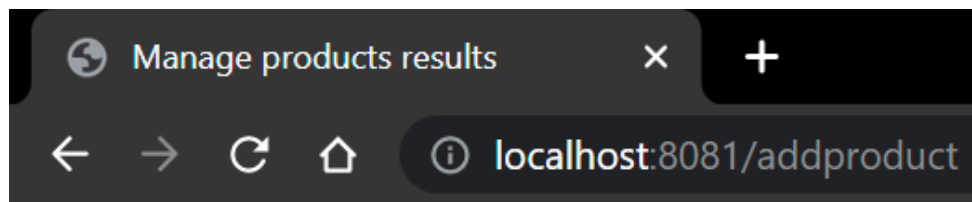
1. Add product functionality:

Add product:

Product name:

Brand:

Price:



Product added successfully!

Query 1

```
select * from products;
```

Result Grid

	productid	productname	brand	price
▶	2	Nike Air Max	Nike	6999
	100	Nike Air	Nike	2956
	200	Nike Revolution	Nike	4999
	300	Adias Trainers	Adidas	3300
	400	Nike Jordan	Nike	11398
	500	Drift Cat 5 Ultra	Puma	3849
	600	Drift Cat 5 Ultra Max	Puma	6849
*	NULL	NULL	NULL	NULL

2. Update product functionality

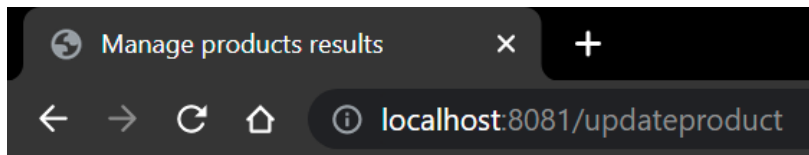
Update product:

Product Id:

Product name:

Brand:

Price:



Product updated successfully!

Query 1

Limit to 1000 rows

```
1 • select * from products;
```

Result Grid

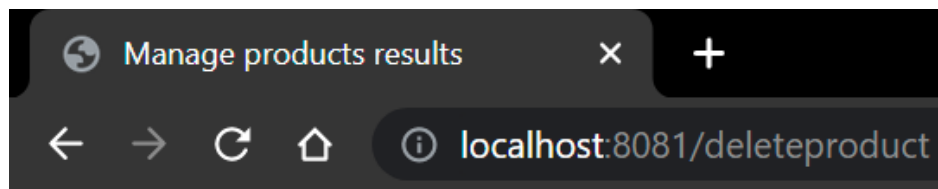
	productid	productname	brand	price
▶	2	Nike Air Max +	Nike	9999
	100	Nike Air	Nike	2956
	200	Nike Revolution	Nike	4999
	300	Adias Trainers	Adidas	3300
	400	Nike Jordan	Nike	11398
	500	Drift Cat 5 Ultra	Puma	3849
	600	Drift Cat 5 Ultra Max	Puma	6849
*	NULL	NULL	NULL	NULL

2. Delete product functionality

Delete product:

Note: You cannot delete a product for which a purchase is already made.

Product Id:

Delete product

Product deleted successfully!

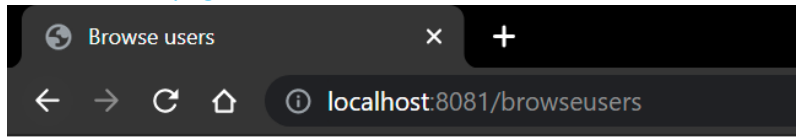
Query 1

```
select * from products;
```

Result Grid

	productid	productname	brand	price
▶	100	Nike Air	Nike	2956
	200	Nike Revolution	Nike	4999
	300	Adias Trainers	Adidas	3300
	400	Nike Jordan	Nike	11398
	500	Drift Cat 5 Ultra	Puma	3849
	600	Drift Cat 5 Ultra Max	Puma	6849
*	NULL	NULL	NULL	NULL

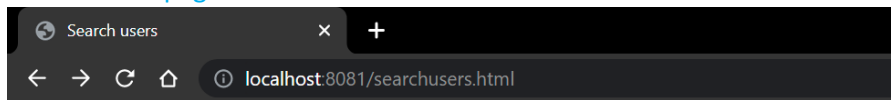
Browse users page:



Sporty shoes - Signed up users

User Id	First name	Last name
adam@sportyshoes.com	Adam	Michael
carter@sportyshoes.com	Carter	Miles
cindy@sportyshoes.com	Cindy	Nolan
jane@sportyshoes.com	Jane	Jaxon
mason@sportyshoes.com	Mason	West

Search users page:



Search users

Please fill in the below details to search users:

Note: Enter the complete first and last name to get results

First name

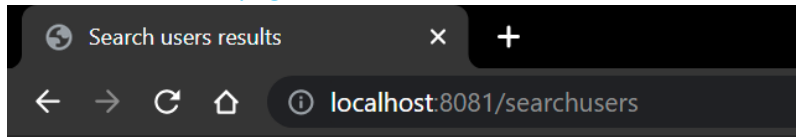
Carter

Last name

Miles

Search

Search user results page:

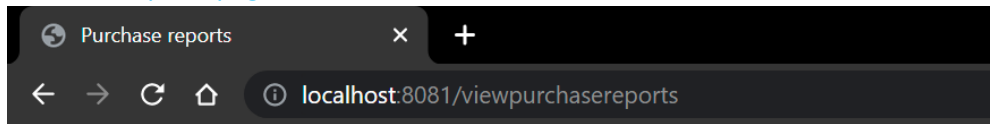


Sporty shoes - Search user results

User search successful. Please find the details below:

User Id	First name	Last name
carter@sportyshoes.com	Carter	Miles

Purchase reports page:

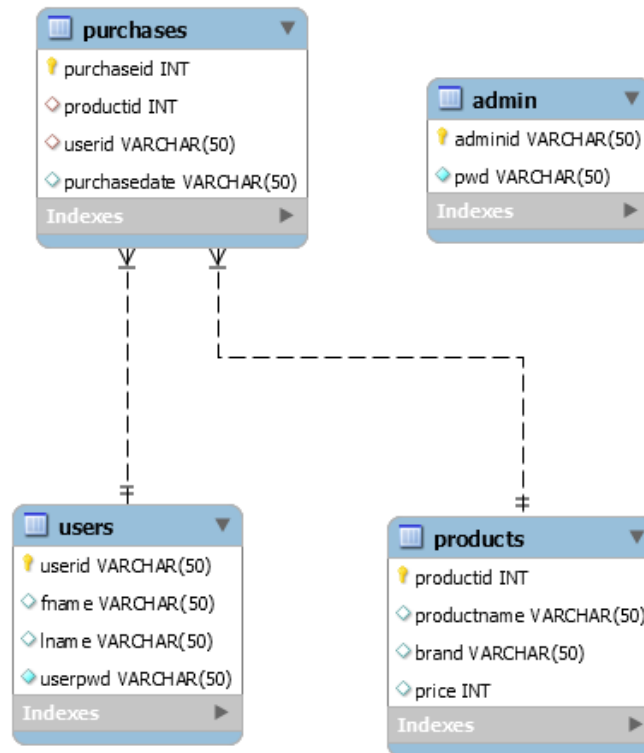


Sporty shoes - Purchase reports

Purchase Id	Product Id	User Id	Purchase date
1	100	adam@sportyshoes.com	June 1st 2021
2	200	jane@sportyshoes.com	August 12th 2021
3	400	carter@sportyshoes.com	April 9th 2021
4	500	cindy@sportyshoes.com	May 1st 2021
5	300	mason@sportyshoes.com	June 8th 2021

Database snapshots

ER diagram:



Database creation:

Query 1 x

Limit to 1000 rows

```
1 • create database sportyshoes;
```

Output

Action Output

#	Time	Action	Message
✓ 1	13:22:37	create database sportyshoes	1 row(s) affected

Creation of **admin** table:

```
Query 1 x
Limit to 1000 rows
1 • create table admin(
2     adminid varchar(50) not null,
3     pwd varchar(50) not null,
4     primary key(adminid)
5 );
```

```
Query 1 x
Limit to 1000 rows
1 • select * from admin;
2
3
4
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

adminid	pwd
admin1@sportyshoes.com	admin1@123
admin2@sportyshoes.com	hello@123
admin3@sportyshoes.com	abc@123
admin4@sportyshoes.com	1234@abc
admin5@sportyshoes.com	\$abc#Z
NULL	NULL

Creation of **users** table:

```
Query 1 x
Limit to 1000 rows
1 • create table users(
2     userid varchar(50) not null,
3     fname varchar(50),
4     lname varchar(50),
5     userpwd varchar(50) not null,
6     primary key(userid)
7 );
```

Query 1 x
Limit to 1000 rows

```
1 • select * from users;
```

<

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: [IA](#)

	userid	fname	lname	userpwd
▶	adam@sportyshoes.com	Adam	Michael	adam@123
	carter@sportyshoes.com	Carter	Miles	miles#4321
	cindy@sportyshoes.com	Cindy	Nolan	nolan\$123
	jane@sportyshoes.com	Jane	Jaxon	jane@\$12!3
	mason@sportyshoes.com	Mason	West	mason#123\$
*	NULL	NULL	NULL	NULL

Creation of **products** table:

```
Query 1 x
1 • create table products(
2     productid integer not null,
3     productname varchar(50),
4     brand varchar(50),
5     price integer,
6     primary key(productid)
7 );
```

Query 1 x

```
1 • select * from products;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	productid	productname	brand	price
▶	100	Nike Air	Nike	2956
	200	Nike Revolution	Nike	4999
	300	Adias Trainers	Adidas	3300
	400	Nike Jordan	Nike	11398
	500	Drift Cat 5 Ultra	Puma	3849
	600	Drift Cat 5 Ultra Max	Puma	6849
*	NULL	NULL	NULL	NULL

Creation of **purchases** table:

```
Query 1 x
1 • create table purchases(
2     purchaseid integer not null,
3     productid integer,
4     userid varchar(50),
5     purchasedate varchar(50),
6     primary key(purchaseid),
7     foreign key(productid) references products(productid),
8     foreign key(userid) references users(userid)
9 );
```

Query 1 x

```
1 • select * from purchases;
2
```

<

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	purchaseid	productid	userid	purchasedate
▶	1	100	adam@sportyshoes.com	June 1st 2021
	2	200	jane@sportyshoes.com	August 12th 2021
	3	400	carter@sportyshoes.com	April 9th 2021
	4	500	cindy@sportyshoes.com	May 1st 2021
	5	300	mason@sportyshoes.com	June 8th 2021
*	NULL	NULL	NULL	NULL

Sporty Shoes database tables:



Git repository : <https://github.com/niroshprakash1995/SportyShoes>

Conclusion

The e-commerce portal development for Sport Shoes Pvt. Ltd. has laid the necessary foundation to enhance the product in the future. Some of the key enhancements to the application that can be added include:

1. Functionality to allow users view all products on the website with images and more details of the products available.
2. Provide a rich user experience through enhanced front end development.
3. Additional functionalities such as adding items to cart, checkout, payment, order tracking etc. can be added in the future.

The relevant stakeholders can review the current functionality and implementation, and plan a full-fledged enhanced development and release in the future.