

WIPRO CAPSTONE PROJECT

SHOP FOR HOME

GROUP-1

Submitted in the partial fulfillment of the requirements for
Wipro certification

JAVA - AWS

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1. INTRODUCTION:

This document aims to give a brief description about SHOP FOR HOME E-Commerce web application using angular, Spring Boot and SQL db. The primary goal of this project is to create a website where consumers may purchase things for home décor in the event that all offline retailers close. E-commerce is quickly becoming a recognised and utilised business paradigm. More and more companies are putting in place websites with capability for conducting business transactions online. It is safe to argue that shopping online has become routine. The goal of this project is to create a general-purpose online store where products like clothing, books, and other items may be purchased while lounging at home. However, this study will focus on online clothing buying for implementation purposes. A virtual store on the Internet where clients can browse the inventory and choose items of interest is known as an online store. The chosen items could be put in a shopping basket. The goods in the shopping cart will be shown as an order when it is time to check out. At that point, more details will be required in order to finalise the purchase. Typically, the client is required to provide or choose a billing address, a mailing address, a shipping choice, and payment details like credit card number. As soon as the order is placed, the customer receives an email notification.

1.1 PURPOSE:

This module's primary goal is to offer all customer-related functions. It keeps track of all the customer's data and specifics. All categories of CRUD (Create, Read, Update, and Delete) operations for customers have been built by us. This is a role-based module, thus access level limits have also been added to the project. The admin can do any activity on the data, but the customer can only view their own data. For novices, we also provide specialised Angular and Java Spring Boot" projects.

1.2 PROBLEM STATEMENT:

Due to the concern of the Corona virus spreading during this epidemic, it has been

challenging to shop offline. Due to a lack of customers, several offline home décor stores have had to close. Due to the epidemic, almost all small enterprises have been put on hold. Therefore, a solution must be developed to allow these small firms to continue operating during these pandemic times without suffering severe losses.

Shop for Home is a well-known retailer of items for home decoration. Covid 19 caused a complete stoppage of all offline buying. Consequently, the retailer wishes to switch to online platforms and create a custom web application.

There are 2 users on the application:

- 1.User
- 2.Admin

1.3 SOLUTION:

E-commerce web applications were created as a result. Where suppliers can conduct online commerce so that clients won't have to travel during these challenging times and the company can continue to operate.

1.4 SCOPE OF THE PROJECT:

Both vendors and consumers can gain greatly from online selling and buying, and these benefits are also the main drivers of e-expanding Commerce's market. According to IBEF, India's e-commerce market had a total value of USD 38.5 billion as of 2017 and is projected to reach USD 200 billion by 2026. That provides us a decent notion of the potential for e-commerce in India in the future.

CHAPTER-2

TECHNOLOGIES REQUIRED

We have developed this project using the below technology

- **HTML:** Page layout has been designed in HTML
- **CSS:** CSS has been used for all the designing part
- **JavaScript:** All the validation task and animations has been developed by JavaScript
- **Java Spring Boot:** All the business and backend API logic has been implemented in Java Spring Boot
- **.SQL:** .SQL files has been used as database for the project
- **Angular:** All the frontend logic has been implemented over the Angular and we used angular CLI for it
- **Visual Studio Code-(VSS):** For Angular IDE, we have used Visual Studio Code
- **STS:** We have used STS (Spring Tool Suite) for developing all spring bootAPI's
- **Tomcat:** Project will be run over the Tomcat server
- **AWS:** ShopForHome application will be deployed in Aws Ec2 instances

2.1 Supported Operating System

We can configure this project on following operating system.

- **Windows:** This project can easily be configured on windows operating system.

2.2 ARCHITECTURE:

Angular Architecture

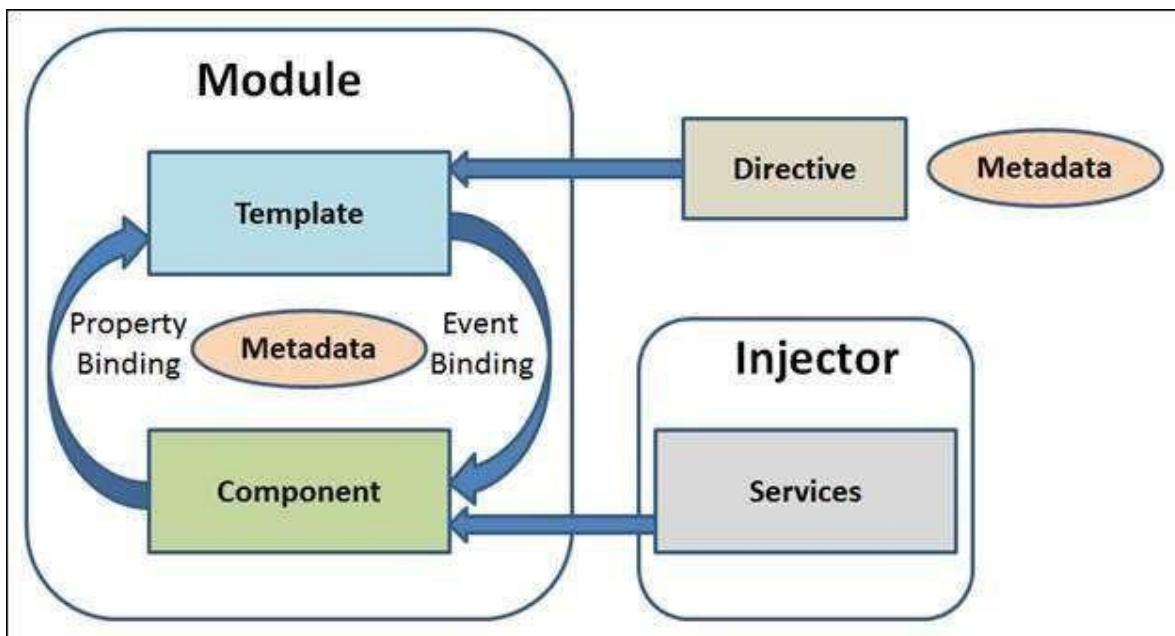


Fig. 2.1 Angular Architecture

There are main eight blocks of Angular.

1. Module
2. Component
3. Metadata
4. Template
5. Data Binding
6. Service
7. Directive
8. Dependency Injection

Spring Boot Architecture

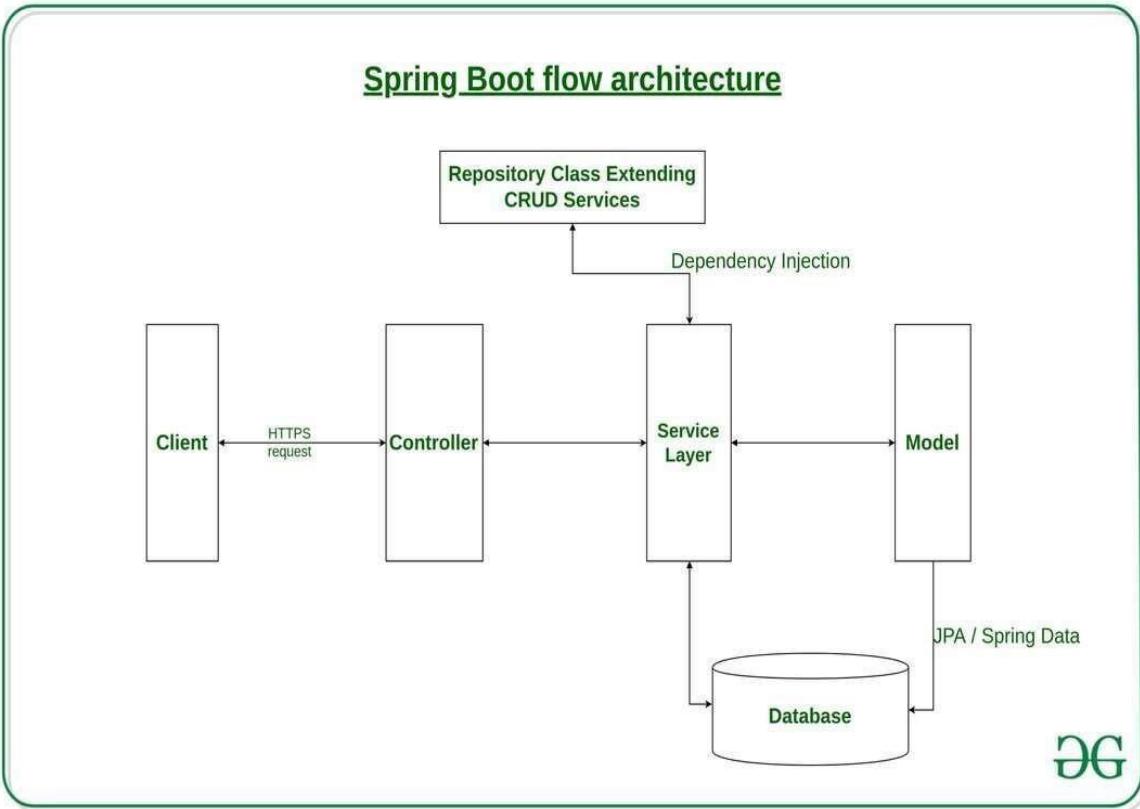


Fig. 2.2 Spring Boot Architecture

The spring boot consists of the following four layers:

1. Presentation Layer – Authentication & Json Translation
2. Business Layer – Business Logic, Validation & Authorization
3. Persistence Layer – Storage Logic
4. Database Layer – Actual Database

Micro Services Architecture

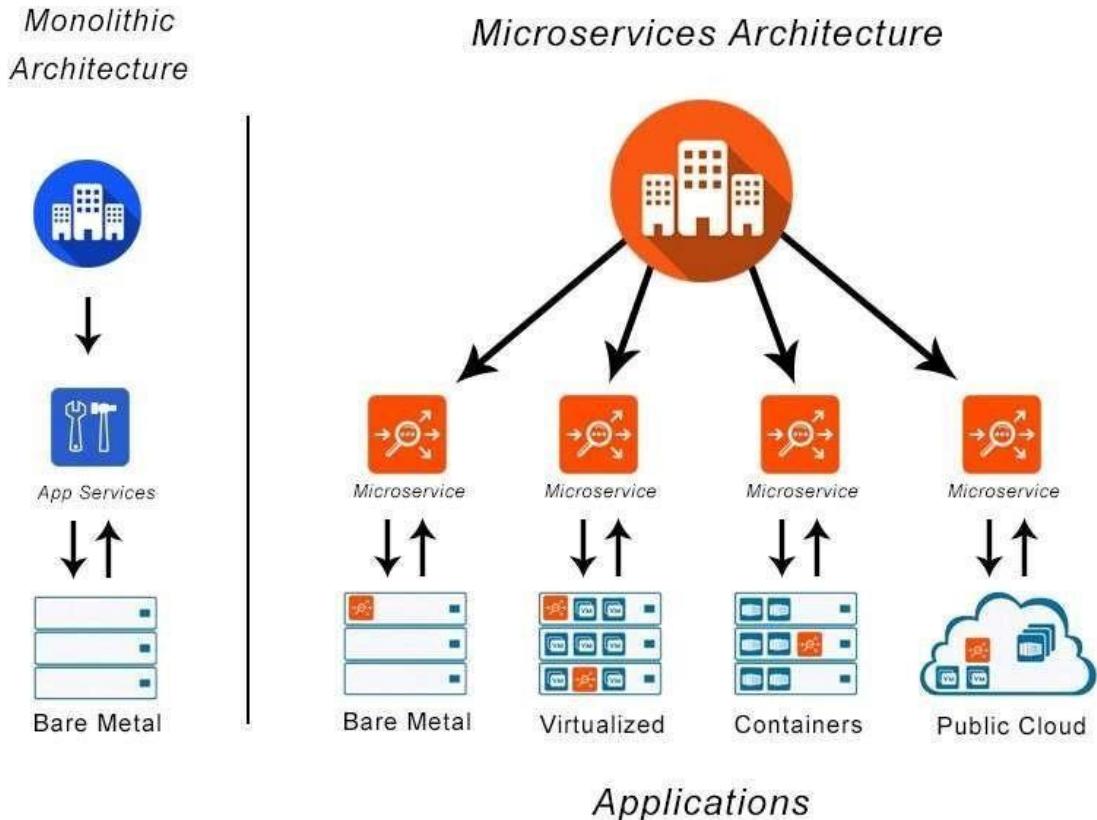


Fig 2.3 Microservices Architecture

Microservices are frequently used to hasten the development of applications. Java-based microservice architectures, particularly those based on Spring Boot, are widespread. It's also popular to contrast service-oriented design with microservices. To divide monolithic software into smaller components is the same goal for both, but they approach it differently.

Project Architecture

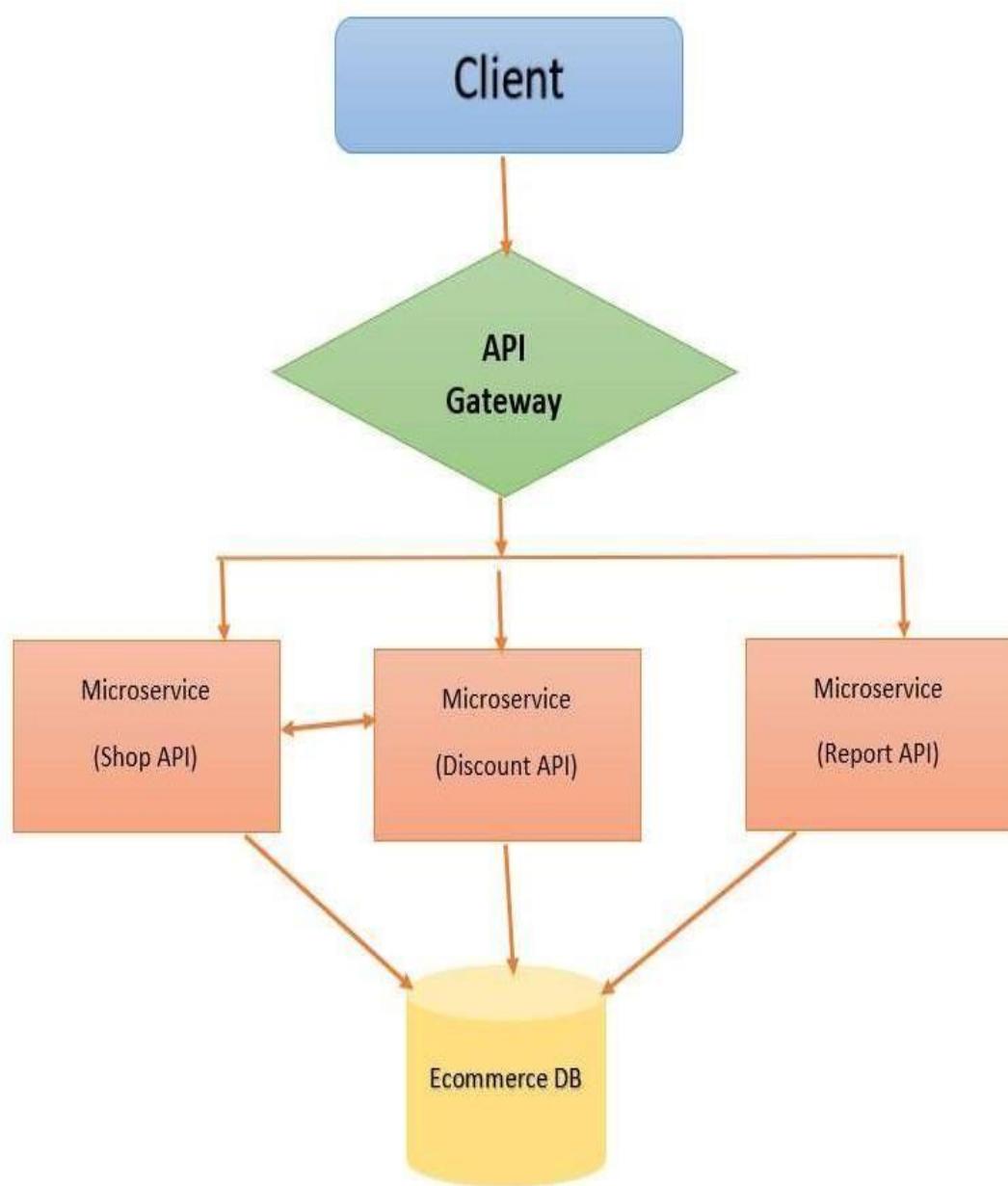


Fig 3.4 Project Architecture

API Gateway

The entry point for customers is the API gateway. Clients call the API gateway rather than the services directly, and the API gateway then routes the call to the proper services on the back end..

Advantages of using an API gateway include:

- It separates customers from services. Services can be updated or redesigned without requiring all clients to be updated.
- Services may employ message protocols like AMQP that are not web-friendly.
- The API Gateway is capable of carrying out additional interdisciplinary tasks including load balancing, SSL termination, logging, and authentication.
- Policies that are already in place, such as those for throttle, caching, transformation, or validation.

Shop Microservice

Business logic and functionalities pertaining to the product display page, Cart, Checkout, and User login Features are contained in the Shop Microservice. It links to an e-commerce database (MySQL).

In this application, port 8080 is used to perform this service.

Discount Microservice

Business logic and functionalities for discounts and coupon list features are contained in the Discount Microservice. From the Admin module, the admin can add and remove coupons from the Discount UI. It links to an e-commerce database (MySQL). This application's port 8081 is used by this service, which is setup with application properties.

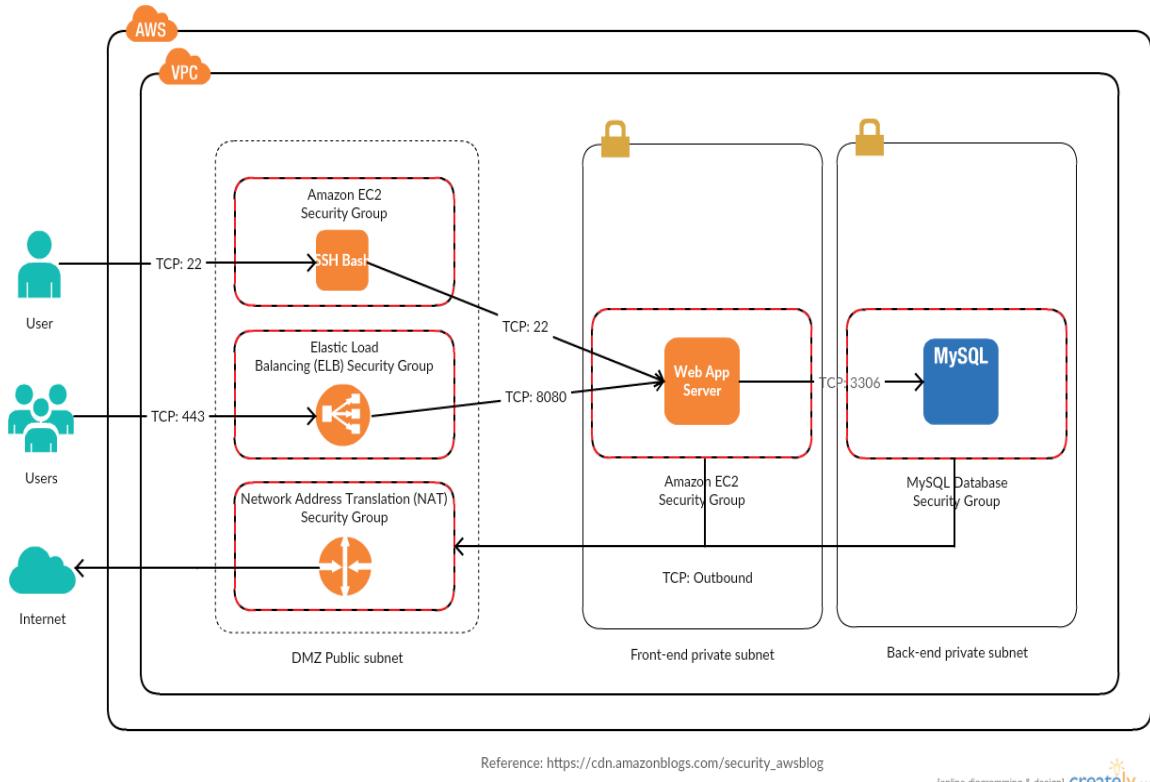
Report Microservice

Business logic and functionalities for the report download feature are contained in the Report Microservice. The stocks report is available for download as an excel file from the

admin module.

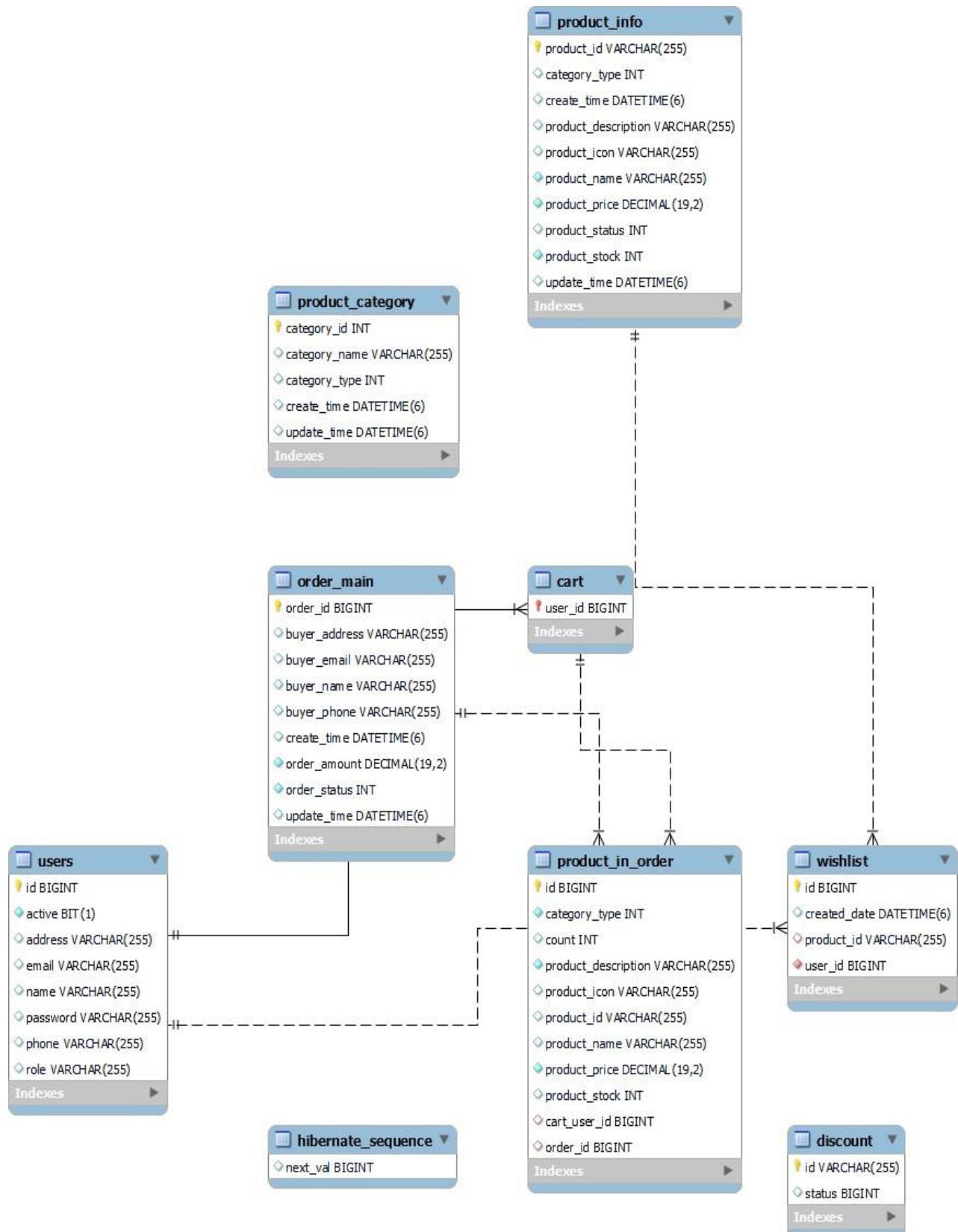
It links to an e-commerce database (MySQL). This application's port 8082 is used by this service, which is specified with application properties.

AWS ARCHITECTURE



Amazon Web Services' core architecture is depicted in the AWS architecture diagram. It displays the fundamental AWS services, including Elastic Load Balancing, CloudFront, Route 53, EC2, security groups, and Amazon S3 buckets, among others. Companies can quickly store and retrieve data of various types via Application Programming Interface calls by utilising S3 (Simple Storage Service).

DataBase Design:



Tables are created for all entities.

Entities in the database include

1. ProductCategory
2. ProductInfo
3. Cart
4. Users
5. ProductInOrder
6. OrderMain
7. Discount
8. Wishlist
9. EmailDetails

2.3 NON-FUNCTIONAL REQUIREMENTS

2.3.1. Usability

Regardless of the size of your company, even a non-technical user should be able to easily use your website. Do you know that the average user decides whether a website is worthwhile in just 0.05 seconds? To avoid those fatal milliseconds, you must pay close attention to the layout of your homepage, CTAs, and checkout process. A website's usability is also determined by:

- How easily a user can achieve their target in a single page visit
- How quickly they can perform tasks in the store
- The memorable & intuitiveness of the design
- Number and types of errors users make

2.3.2. Security

If your website handles financial transactions, user financial information, or other sensitive information, security is of the utmost significance. Utilizing an SSL certificate and a data privacy policy will increase user trust in your website and

increase conversion rates.

customers into brand evangelists. Additionally, it is taken into account for the various admin roles that help you manage who has access to create, see, copy, modify, and remove content. Depending on where your company is located, security can also mean adhering to laws governing the protection of client data, such as the GDPR in Europe.

2.3.3. Performance

You must pay close attention to performance in the non-functional requirements documents if you want to increase website traffic. Regardless of the volume of traffic and the amount of integrations on your website, the emphasis should be on loading the e-commerce store as quickly as feasible. You can choose the maximum number of SKUs you wish to add, the benchmark speed, or any other performance metric that works best for your company. Don't take into account the delivery time of a third-party system because the developers won't have control over the third-party API calls..

2.3.4. Maintainability

The most challenging aspect of creating a business budget is accounting for maintenance operations expenditures. By including website maintenance into the process from the beginning, future system errors can be found and fixed with less time and expense. Unfortunately, there is no way to prevent problems from arising in the future, therefore you must look for a website building business that can handle website maintenance.

2.3.5. Scalability

Last but not least, you need to consider scalability while searching for a solution that will be reliable in the future. It will outline how the website can expand and add features and functionality without affecting how well your website functions. For your website to handle additional transactions, you must be able to add extra RAM, servers, or disc space. You might need to implement localization tools on the

server side as you expand into new markets. Overall, this NFR allows for painless business growth and has ramifications for both hardware and software.

CHAPTER-3

Installation and Instructions

3.1 Installation Steps:

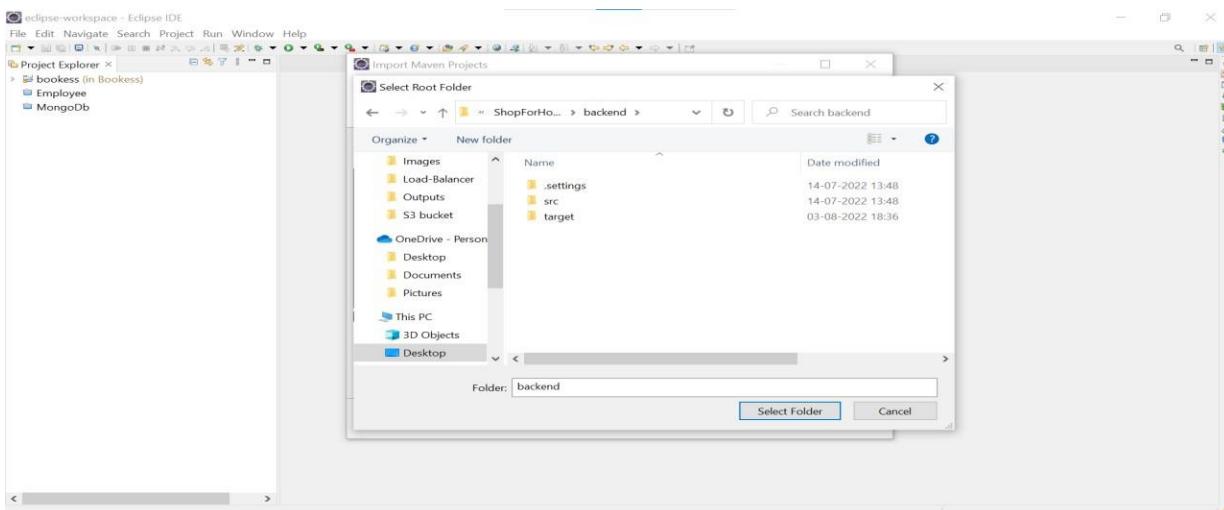
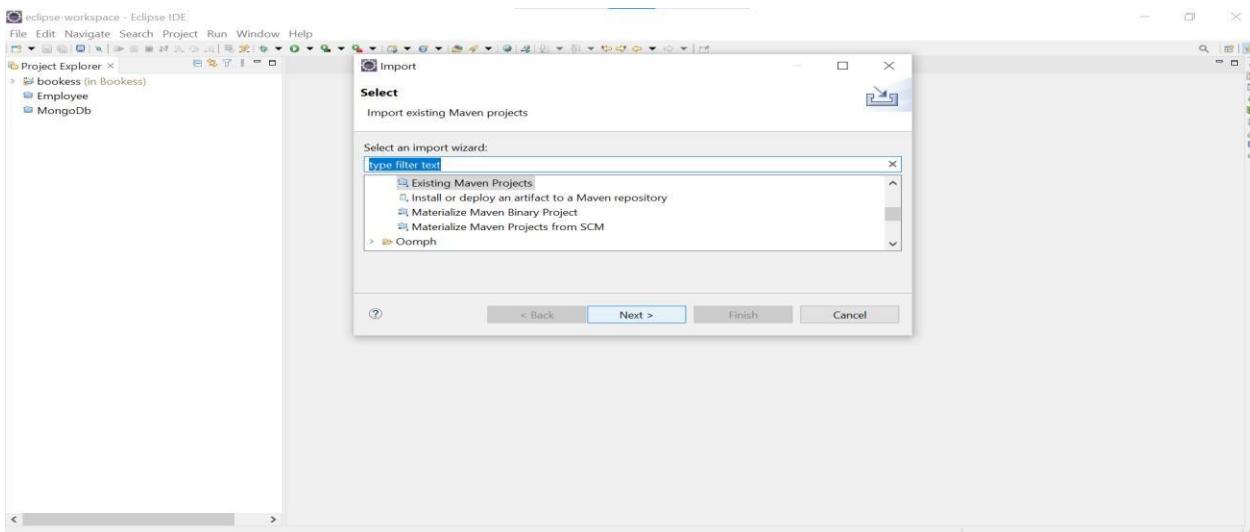
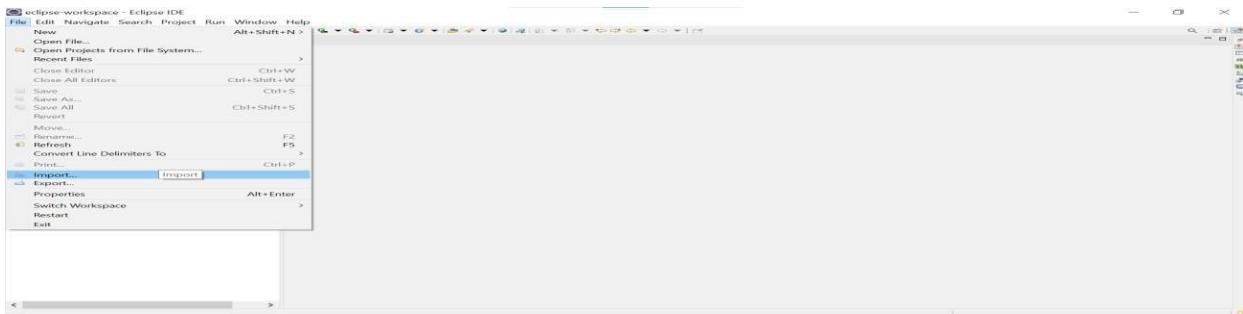
1. Java 11 jdk -> double click -> proceed with default settings
2. MySQL -> double click -> proceed with default settings
Search -> MySQL workbench after MySQL installation completes
3. Vscode -> double click -> proceed with default settings
4. Eclipse -> extract zip file -> run

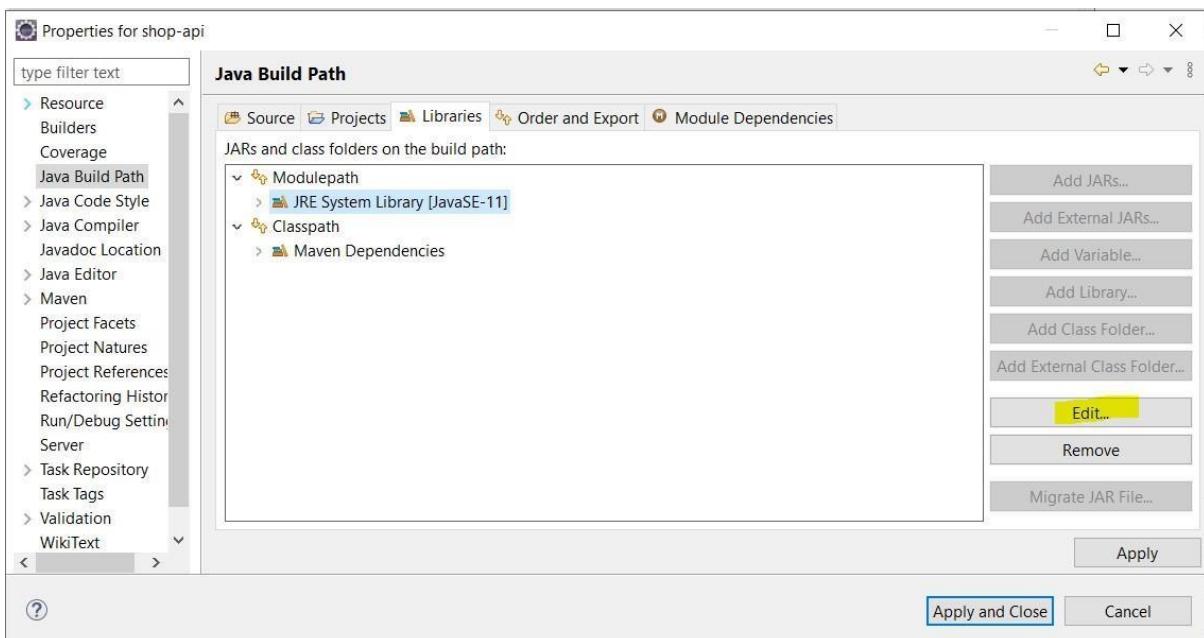
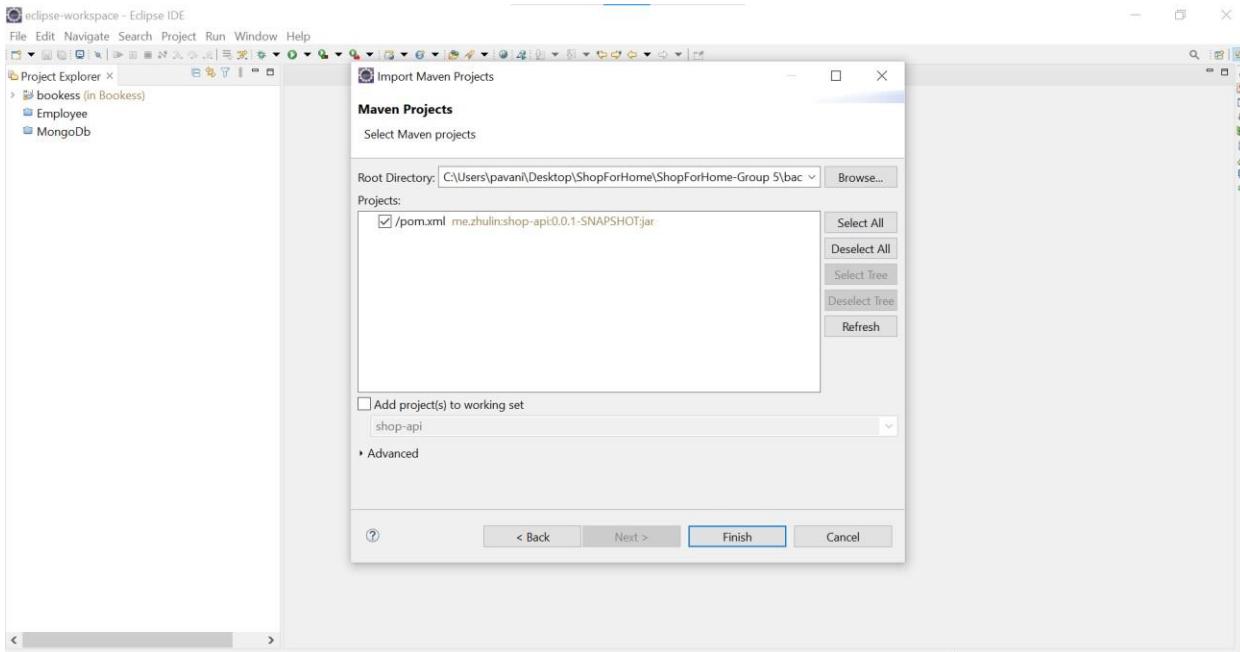
PC > Downloads > capstone project > eclipse			
Name	Date modified	Type	Size
configuration	20-06-2022 09:06	File folder	
dropins	02-12-2021 17:17	File folder	
features	02-12-2021 17:17	File folder	
p2	25-06-2022 07:18	File folder	
plugins	02-12-2021 17:17	File folder	
readme	02-12-2021 17:17	File folder	
.eclipseproduct	24-11-2021 23:05	ECLIPSEPRODUCT ...	1 KB
artifacts	02-12-2021 17:17	XML Document	271 KB
eclipse	02-12-2021 17:22	Application	519 KB
eclipse	02-12-2021 17:17	Configuration setti...	1 KB
eclipsec	02-12-2021 17:23	Application	231 KB

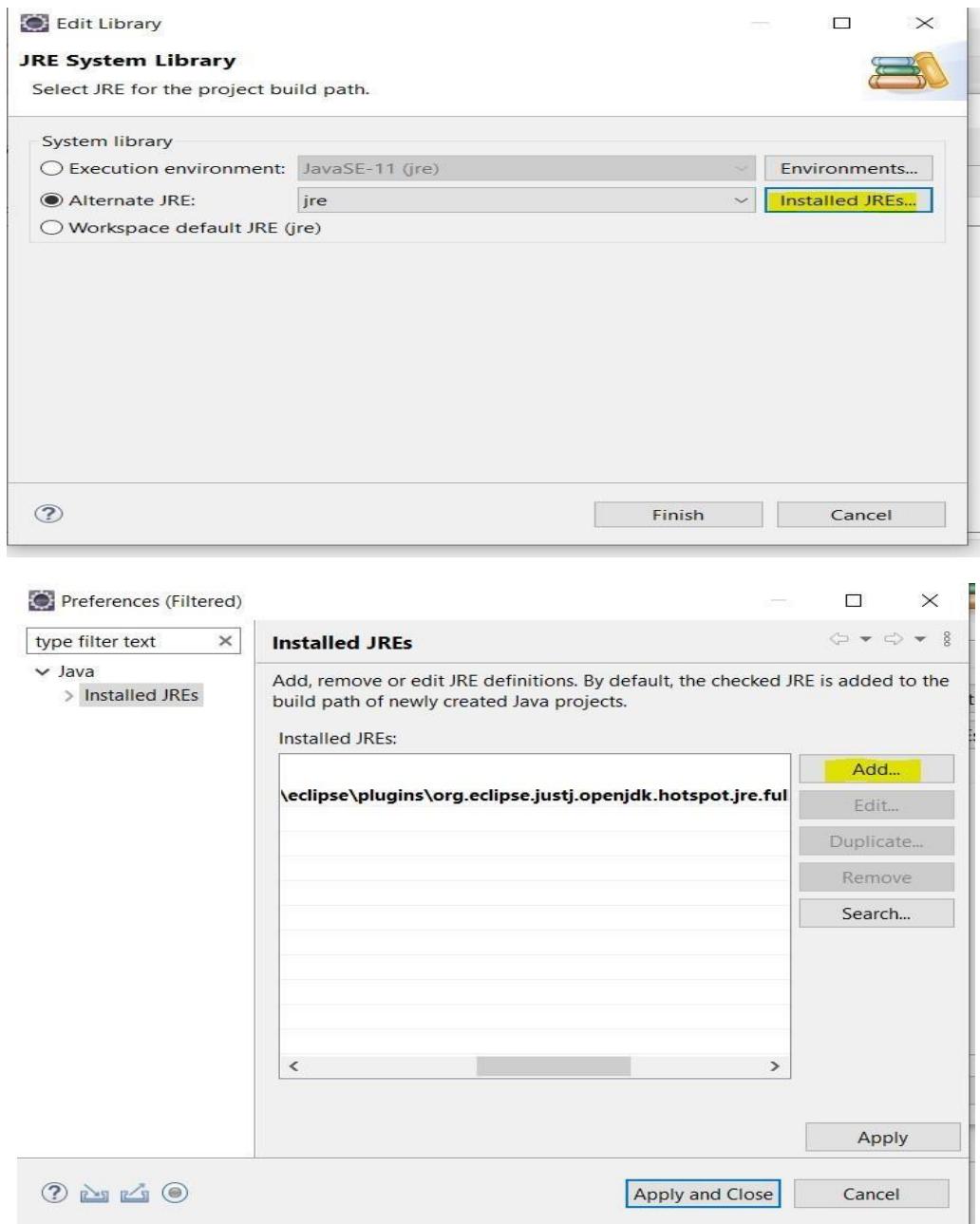
5. double click -> eclipse application -> (pin to task bar if required)

3.2 Import Backend project in Eclipse:

1. Create Eclipse workspace
2. Import Backend Project in workspace
3. Change properties -> right click -> properties







3.4 Front End

From your local FrontEnd code path -> open cmd

Eg -> {local path}\ecommerce-eshop\frontend

- Run this command -- **code** .
- Run **Npm install** from vs code terminal
- Run npm start

- After the successful compiling you got this link in terminal
localhost:4200.
- Open this link in google chrome

3.5 DataBase

- Install MySQL Workbench
- After installation, Open MySQL



CHAPTER-4

Source Code

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure for "eshop-api". It includes packages like "bookess", "Employee", "MongoDb", and "eshop.homedecor.shopapi". Under "eshop.homedecor.shopapi", there are several controller classes (CartController, CategoryController, CSVController, DiscountController, EmailController, OrderController, ProductController, UserController, WishListController) and entity classes (Cart, Discount, EmailDetails, OrderMain, ProductCategory, ProductInfo, ProductInOrder, User, WishList). There are also enum and form classes.
- Code Editor:** Displays the content of `ShopApiApplication.java`. The code defines a `ShopApiApplication` class with annotations for `@SpringBootApplication`, `@SuppressWarnings("deprecation")`, and `@Bean` for `passwordEncoder` and `corsConfigurer`.
- Run Configuration:** A tooltip shows the current configuration: "1 Java Application" with "Alt+Shift+X, J" as the keyboard shortcut, and "Run Configurations...".
- Context Menu:** A context menu is open on the right side of the screen, specifically under the "Run As" section. The menu items include: Undo (Ctrl+Z), Save (Ctrl+S), Open Declaration (F3), Open Type Hierarchy (F4), Open Call Hierarchy (Ctrl+Alt+H), Show in Breadcrumb (Alt+Shift+B), Quick Outline (Ctrl+O), Quick Type Hierarchy (Ctrl+T), Open With (Alt+Shift+W), Show In (Alt+Shift+W), Cut (Ctrl+X), Copy (Ctrl+C), Copy Qualified Name, Paste (Ctrl+V), Raw Paste, Quick Fix (Ctrl+1), Source (Alt+Shift+S), Refactor (Alt+Shift+T), Local History, References, Declarations, Add to Snippets..., Coverage As, Run As (highlighted with a blue border), Debug As, Profile As, Team, Compare With, Replace With, Validate (with a checked checkbox), and Preferences...).

eclipse-workspace - shop-api/src/main/java/eshop/homedecor/shopapi/ShopApiApplication.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer application.properties ShopApiApplication.java

```

1 package eshop.homedecor.shopapi;
2
3 *import org.springframework.boot.SpringApplication;
4
5 @SuppressWarnings("deprecation")
6 @SpringBootApplication
7 public class ShopApiApplication {
8     @Bean
9     public PasswordEncoder passwordEncoder() {
10         return new BCryptPasswordEncoder();
11     }
12
13     @Bean
14     public WebMvcConfigurer corsConfigurer() {
15         return new WebMvcConfigurerAdapter() {
16             ...
17         };
18     }
19 }
20
21 @Bean
22 public WebMvcConfigurer corsConfigurer() {
23     return new WebMvcConfigurerAdapter() {
24         ...
25     };
26 }

```

Markers Properties Servers Data Source Explorer Snippets Terminal Progress

ShopApiApplication (1) [Java Application] [pid: 24232]

Up: /eshop/homedecor/shopapi

id constraint UK_6kq6iveuim6wd9eox5bksumw unique (category_type)
`sx468g52bpetylad2j9y0lptc
t UK_sx468g52bpetylad2j9y0lptc unique (email)
: FKg5uhb8psuy0glloxk2h4w56 foreign key (user_id) references users (id)
id constraint FKhnivo3f12qtc03ulm4mq0mbn5 foreign key (cart_user_id) references cart (user_id)
id constraint FKt0sfj3ffasriffic4lV3ra85 foreign key (order_id) references order_main (order_id)
aint FKKlfv8svemdde0od1rs6mgstb foreign key (product_id) references product_info (product_id)
aint FKtrd6335blsefl2gxpbb1r0gr7 foreign key (user_id) references users (id)
restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformImpl]
restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
restartedMain] o.s.b.d.a.OptionalaliveReloadServer : LiveReload server is running on port 35729
restartedMain] JpaBaseConfiguration\$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries will be executed via JPA even if a JSP page or similar view is rendered.
restartedMain] o.s.s.web.DefaultSecurityFilterChain : Creating filter chain: any request, [org.springframework.security.web.context.request.async.WebAsyncManagerIntegrationFilter, org.springframework.security.web.header.HeaderWriterFilter, org.springframework.security.web.authentication.UsernamePasswordAuthenticationFilter, org.springframework.security.web.savedrequest.SavedRequestHeaderFilter, org.springframework.security.web.servlet.invoke.UrlRewritingFilter, org.springframework.security.web.servlet.intercept.FilterSecurityInterceptor, org.springframework.security.web.access.intercept.FilterSecurityContextHolderFilter]
restartedMain] o.s.s.concurrent.ThreadPoolTaskExecutor : Initializing ExecutorService 'applicationTaskExecutor'
restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8070 (http) with context path ''
restartedMain] e.homedecor.shopapi.ShopApiApplication : Started ShopApiApplication in 5.716 seconds (JVM running for 6.325)

Writable Smart Insert 29:6:1041

GITHUB REPOSITORY

The screenshot shows a GitHub repository page for the user 'saurabhc3' with the repository name 'Shopforhome'. The repository is public and has 1 branch and 0 tags. The commit history shows 7 commits over the last 2 days, including the deletion of a SQL file and the addition of backend and frontend files. The repository has 0 stars, 1 watching, and 0 forks. There are no releases published.

Commit	File	Message	Date
977537b	saurabhc3 Delete shopforhome.sql	2 days ago	7 commits
backend	backend add	2 days ago	
frontend	frontend added	2 days ago	
Database_schema.png	new file added	2 days ago	
README.md	Initial commit	4 days ago	
eshop.sql	new file added	2 days ago	
fileupload.csv	new file added	2 days ago	

CREATION OF EC2 INSTANCES

Click on Launch Instance

The screenshot shows the AWS EC2 Home page. On the left, a sidebar lists various services: New EC2 Experience (selected), EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Images (AMIs, AMI Catalog), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), and Network & Security. The main content area has three main sections: 'Launch instance' (with 'Launch instance' and 'Migrate a server' buttons), 'Service health' (status: 'This service is operating normally'), and 'Zones' (listing three availability zones: us-east-1a, us-east-1b, and us-east-1c, each associated with a Zone ID: use1-az1, use1-az2, and use1-az4 respectively). A note at the bottom of the main content area states: 'Note: Your instances will launch in the US East (N. Virginia) Region'. The top navigation bar shows the URL as 'us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Home:' and the top right corner shows the user 'pavani1277/vic'.

MySQL Instance:

The screenshot shows the AWS EC2 Instances page for an MySQL instance named i-06d96d574d24b6f8f. The instance summary table includes the following details:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-06d96d574d24b6f8f (MySQL)	34.229.167.180 open address	172.31.20.185
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-34-229-167-180.compute-1.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	Elastic IP addresses
IP name: ip-172-31-20-185.ec2.internal	ip-172-31-20-185.ec2.internal	(It is taking a bit longer than usual to fetch your data)
Answer private resource DNS name	Instance type	AWS Compute Optimizer finding
IPv4 (A)	t2.micro	(It is taking a bit longer than usual to fetch your data)
Auto-assigned IP address	VPC ID	
(It is taking a bit longer than usual to fetch your data)	vpc-0d352e752f514de83	

SSH to MySQL Instance

1. sudo apt update

```
ubuntu@ip-10-0-1-212: ~
Building dependency tree
Reading state information... Done
62 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-10-0-1-212: ~$ sudo apt install mysql-server-y
Reading package lists... Done
Building dependency tree
Reading state information... Done
E: Unable to locate package mysql-server-y
ubuntu@ip-10-0-1-212: ~$ sudo apt install mysql-server -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 libgcj-fast-perl libgcj-pm-perl libencode-locale-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl
 libhttp-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
 liblwp-mediatypes-perl libmcab2 libtimedate-perl liburi-perl libmcap-ipadic mcab-ipadic-utf8 mcab-utils
 mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
 libdata-dump-perl libhttp-sharedcache-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
 libgcj-fast-perl libgcj-pm-perl libencode-locale-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl
 libhttp-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
 liblwp-mediatypes-perl libmcab2 libtimedate-perl liburi-perl libmcap-ipadic mcab-ipadic-utf8 mcab-utils
 mysql-client-8.0 mysql-client-core-8.0 mysql-common mysql-server mysql-server-8.0 mysql-server-core-8.0
0 upgraded, 25 newly installed, 0 to remove and 62 not upgraded.
Need to get 32.1 MB of archives.
After this operation, 264 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 mysql-common all 5.8+1.0. Subuntu2 [7406 B]
Get:2 http://us-east-1.ec2.archive/ubuntu/focal-updates/main amd64 mysql-client-core-8.0 amd64 8.0.30-Subuntu2.20.04.2 [4521 kB]
Get:3 http://us-east-1.ec2.archive/ubuntu/focal-updates/main amd64 mysql-client-8.0 amd64 8.0.30-Subuntu2.20.04.2 [22.0 kB]
Get:4 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libevent-core-2.1.7 amd64 2.1.11-stable-1 [89.1 kB]
Get:5 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libevent-pthreads-2.1-7 amd64 2.1.11-stable-1 [7372 B]
Get:6 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libmcab2 amd64 0.996-10build1 [233 kB]
Get:7 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 mysql-server-core-8.0 amd64 8.0.30-Subuntu2.20.04.2 [18.6 MB]
Get:8 http://us-east-1.ec2.archive/ubuntu/focal-updates/main amd64 mysql-server-8.0 amd64 8.0.30-Subuntu2.20.04.2 [129 kB]
Get:9 http://us-east-1.ec2.archive/ubuntu/focal-updates/main amd64 libhttp-date-perl all 1.76-2 [77.5 kB]
Get:10 http://us-east-1.ec2.archive/ubuntu/focal-updates/main amd64 libhttp-message-perl all 1.76-2 [12.5 kB]
Get:11 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libhttp-parser-perl all 1.76-2 [86.3 kB]
Get:12 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libhttp-template-perl amd64 3.72-5 [86.3 kB]
Get:13 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libfcgi-perl amd64 0.79-1 [33.1 kB]
Get:14 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libfcgi-fast-perl all 1.2.15-1 [10.5 kB]
Get:15 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libencode-locale-perl all 1.05-1 [12.3 kB]
Get:16 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 liblwp-mediatypes-perl all 2.97-3 [59.0 kB]
Get:17 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libtimedate-perl all 2.3200-1 [34.0 kB]
Get:18 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libhttp-date-perl all 6.05-1 [9920 B]
Get:19 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libio-html-perl all 1.001-1 [14.9 kB]
Get:20 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 liblwp-mediatypes-perl all 6.04-1 [19.5 kB]
Get:21 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 libhttp-message-perl all 6.22-1 [76.1 kB]
Get:22 http://us-east-1.ec2.archive/ubuntu/focal/main amd64 mcab-utils amd64 0.996-10build1 [4912 B]
```

2. sudo apt install mysql-server -y

```
ubuntu@ip-10-0-1-212:~  
0 upgraded, 0 newly installed, 0 to remove and 62 not upgraded.  
ubuntu@ip-10-0-1-212:~$ sudo mysql  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 9  
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)  
  
Copyright (c) 2000, 2022, Oracle and/or its affiliates.  
  
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affiliates. Other names may be trademarks of their respective  
owners.  
  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.  
  
mysql> CREATE USER 'root'@'%' IDENTIFIED BY 'Chinna@127?';  
Query OK, 0 rows affected (0.03 sec)  
  
mysql> CREATE DATABASE ecommerce;  
Query OK, 1 row affected (0.01 sec)  
  
mysql> GRANT ALL PRIVILEGES ON ecommerce.* TO 'root'@'%';  
Query OK, 0 rows affected (0.01 sec)  
  
mysql> exit  
Bye  
ubuntu@ip-10-0-1-212:~$ sed "s/bind-address/*bind-address/" /etc/mysql/mysql.conf.d/mysql.cnf > mysqls.cnf  
ubuntu@ip-10-0-1-212:~$ sudo mv mysqls.cnf /etc/mysql/mysql.conf.d/mysqls.cnf  
ubuntu@ip-10-0-1-212:~$ cd /etc/mysql/mysql.conf.d/  
ubuntu@ip-10-0-1-212:/etc/mysql/mysql.conf.d$ cd~  
  
Command 'cd~' not found, did you mean:  
  
command 'cdw' from deb cdw (0.8.1-1build1)  
command 'cdw' from deb cdo (1.9.9+rc1-1)  
command 'cdp' from deb irpas (0.10-7)  
command 'cdi' from deb cdo (1.9.9+rc1-1)  
command 'cdb' from deb tinycdb (0.78build1)  
command 'cde' from deb cde (0.1+git9-g551e54d-1.1build1)  
command 'cd5' from deb cd5 (0.1-4)  
  
Try: sudo apt install <deb name>  
  
ubuntu@ip-10-0-1-212:/etc/mysql/mysql.conf.d$ cd ~  
ubuntu@ip-10-0-1-212:~$ sudo /etc/init.d/mysql restart  
Restarting mysql (via systemctl): mysql.service.  
ubuntu@ip-10-0-1-212:~$ sudo /etc/init.d/mysql restart  
Restarting mysql (via systemctl): mysql.service.  
ubuntu@ip-10-0-1-212:~$
```

3. sudo mysql

4.CREATE USER 'root'@'%' IDENTIFIED BY 'Chinna@127';

5. CREATE DATABASE ecommerce;

6.GRANT ALL PRIVILEGES ON ecommerce.* TO 'root'@'%';

7.exit

```
8.sed "s/bind-address/#bind-address/" /etc/mysql/mysql.conf.d/mysqld.cnf
```

> mysqld.cnf

9. sudo mv mysqld.cnf /etc/mysql/mysql.conf.d/mysqld.cnf

10.cd /etc/mysql/mysql.conf.d/

11.vi mysqld.cnf

remove # before bind-address in mysqlx-bind-address

12.sudo /etc/init.d/mysql restart

```

ubuntu@ip-10-0-1-212: ~
0 upgraded, 0 newly installed, 0 to remove and 62 not upgraded.
ubuntu@ip-10-0-1-212: ~$ sudo mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> CREATE USER 'root'@'%' IDENTIFIED BY 'Chinna@1277';
Query OK, 0 rows affected (0.01 sec)

mysql> CREATE DATABASE ecommerce;
Query OK, 1 row affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON ecommerce.* TO 'root'@'%';
Query OK, 0 rows affected (0.01 sec)

mysql> exit
Bye
ubuntu@ip-10-0-1-212: ~$ sed "s/bind-address/#bind-address/" /etc/mysql/mysql.conf.d/mysqld.cnf > mysqld.cnf
ubuntu@ip-10-0-1-212: ~$ sudo mv mysqld.cnf /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-10-0-1-212: ~$ cd /etc/mysql/mysql.conf.d/
ubuntu@ip-10-0-1-212:/etc/mysql/mysql.conf.d$ cd~

Command 'cd~' not found, did you mean:
  command 'cdw' from deb cdw (0.8.1-1build4)
  command 'cdo' from deb cdo (1.9.9-rc1-1)
  command 'cdp' from deb irpas (0.10-7)
  command 'cdi' from deb cdo (1.9.9-rc1-1)
  command 'cdb' from deb tinycdb (0.78build1)
  command 'cde' from deb cde (0.1-git9-g551e54d-1.1build1)
  command 'cd5' from deb cd5 (0.1-4)
Try: sudo apt install <deb name>

ubuntu@ip-10-0-1-212:/etc/mysql/mysql.conf.d$ cd ~
ubuntu@ip-10-0-1-212: ~$ sudo /etc/init.d/mysql restart
Restarting mysql (via systemctl): mysql.service
ubuntu@ip-10-0-1-212: ~$ sudo /etc/init.d/mysql restart
Restarting mysql (via systemctl): mysql.service.
ubuntu@ip-10-0-1-212: ~$
```

26°C Rain coming

ENG IN 19:14 06-09-2022

Creation Of Application-Backend Instance

Assign the public IP of MySQL Instance in application.properties.

The screenshot shows a GitHub repository page for 'Shopforhome/application.properties at main · saurabhc3/Shopforhome · GitHub'. The application.properties file is displayed, showing the following content:

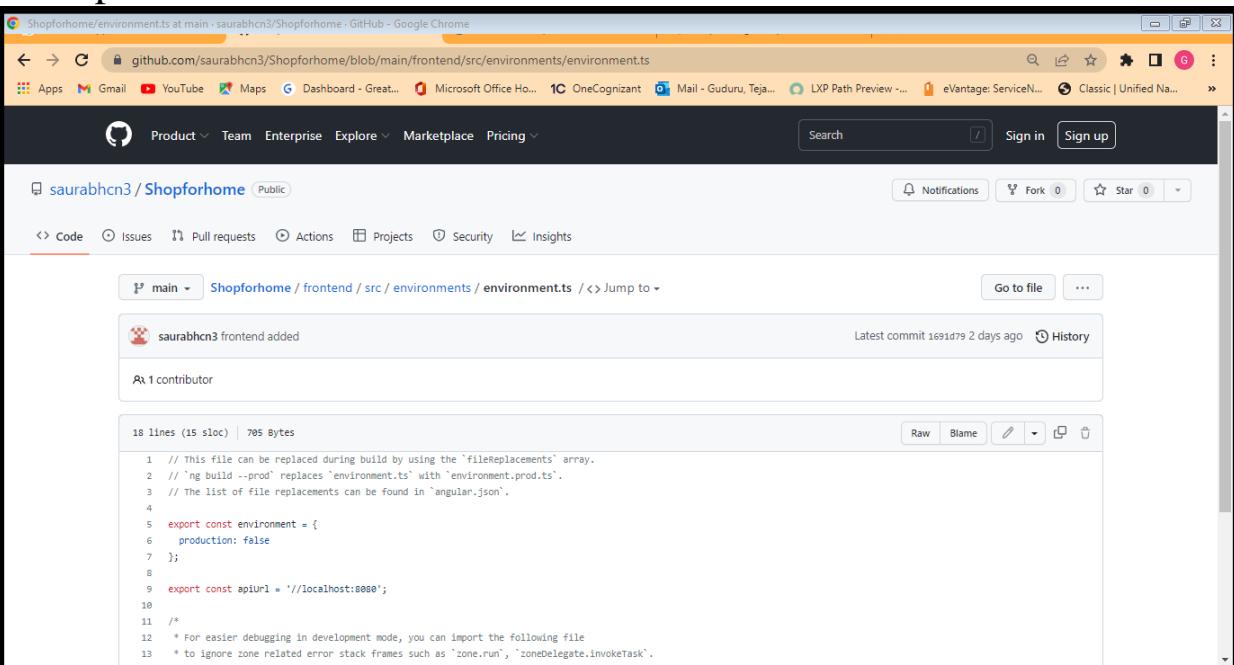
```

spring.datasource.url=jdbc:mysql://localhost:3306/eshop
server.port=8080
spring.datasource.username=root
spring.datasource.password=saurabh
spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL57Dialect
spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.show-sql=true
server.servlet.contextPath=/api
spring.security.user.name=user
spring.security.user.password=password

```

Creation of Application-Frontend Instance

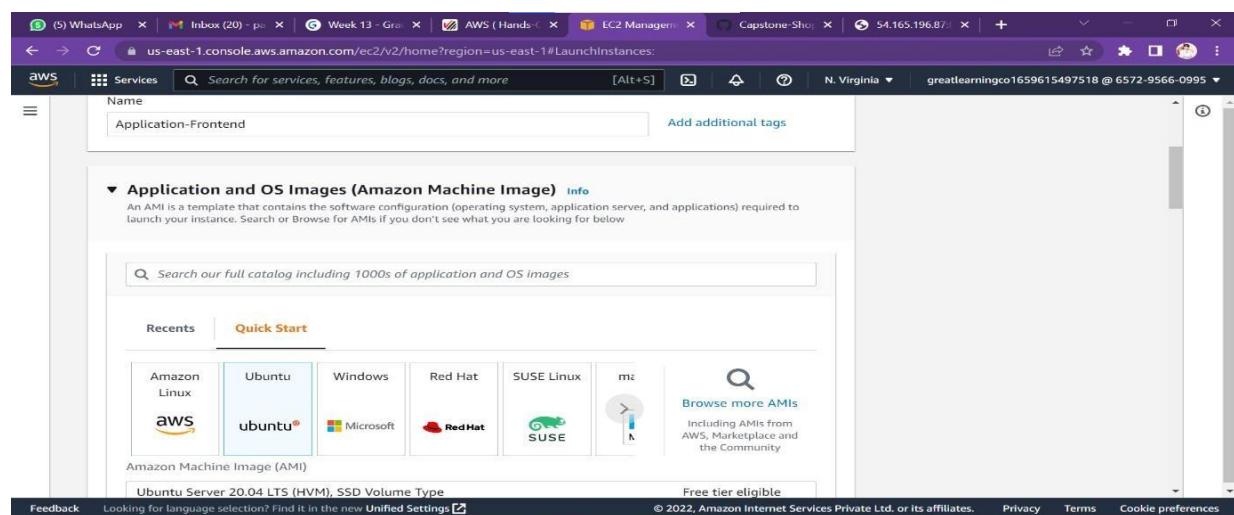
Add public IP of backend instance in environment.ts file.



```
// This file can be replaced during build by using the 'fileReplacements' array.
// 'ng build --prod' replaces 'environment.ts' with 'environment.prod.ts'.
// The list of file replacements can be found in 'angular.json'.
export const environment = {
  production: false
};

export const apiUrl = '//localhost:8080';

/*
 * For easier debugging in development mode, you can import the following file
 * to ignore zone related error stack frames such as 'zone.run', 'zoneDelegate.invokeTask'.
*/
```



Name: Application-Frontend

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Search for your full catalog including 1000s of application and OS images

Recent: Amazon Linux, Ubuntu, Windows, Red Hat, SUSE Linux, Microsoft, Red Hat, SUSE

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type

Free tier eligible

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, and Network & Security. The main content area is titled "Instance summary for i-0323ad4e951ba98fd (Application-Frontend-1)". It displays various details about the instance, including its ID, state (Running), type (t2.micro), and VPC ID. A callout box highlights the "Public IPv4 address copied" link next to the public IP address 34.232.77.91.

Copy the public IP of frontend instance and paste it in new tab with :4200

Then our ShopForHome web application will be displayed.

The screenshot shows a web browser window with the title "ShopForHome". The URL in the address bar is "localhost:4200/product". The page content includes a header with links for SHOP LIVING ROOM, SHOP BED ROOM, SHOP DINING ROOM, SHOP STUDY ROOM, and HOME ELECTRONICS. Below the header is a search bar with the placeholder "Search Product". The main area features three product cards:

- Fan:** Description: Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM. Price: \$1,299.00. Stock: 200.
- Fridge:** Description: Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES. Price: \$122,500.00. Stock: 200.
- Washing machine:** Description: Big Capacity(12kg) Energy Efficiency (A+++-40%), 6 Motion Direct Drive, Inverter Direct Drive, (Less noise andvibration, 10-Year MotorWarranty, 22-Year VDE Certification), TrueSteam™, Smart Diagnosis™. Price: \$41,000.00.

Created EC2 Instances

The screenshot shows the AWS EC2 Instances page. The left sidebar is collapsed, and the main area displays a table of five EC2 instances. The columns include Name, Instance ID, Instance state, Instance type, Status check, and Alarm status. All instances are listed as 'Running' t2.micro type with 2/2 checks passed and no alarms.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
Application-Frontend-1	i-057bec3e9802de2e3	Running	t2.micro	2/2 checks passed	No alarms
Application-Frontend-2	i-05c132fabe20ff20c	Running	t2.micro	2/2 checks passed	No alarms
Application-Frontend-3	i-080ba173ab1a8cfca	Running	t2.micro	2/2 checks passed	No alarms
MySQL	i-08ff08b857632c1c1	Running	t2.micro	2/2 checks passed	No alarms
Application-Backend	i-0893fc75ace8e770a	Running	t2.micro	2/2 checks passed	No alarms

TARGET GROUPS

Creation of target groups

The screenshot shows the AWS Target Groups page. The left sidebar is collapsed, and the main area displays a table titled 'Target groups'. A message at the bottom indicates '0 target groups selected' and 'Select a target group above.'

Name	ARN	Port	Protocol	Target type
Loading target groups				

Screenshot of the AWS EC2 Instances page showing a list of running instances. The selected instance is 'Application_Frontend' (Instance ID: i-04d8d6a7af9c7fcf6).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
Application_Frontend	i-04d8d6a7af9c7fcf6	Running	t2.micro	Initializing	No alarms	us-east-1e	ec2-100-25-11
Application_Frontend	i-0d068302ce10dc37a	Running	t2.micro	Initializing	No alarms	us-east-1e	ec2-18-234-80
Application_Frontend	i-0a9f97037fc816527	Running	t2.micro	Initializing	No alarms	us-east-1e	ec2-34-232-67
Application_B	i-0884874ec63f053e0	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	ec2-23-22-152
MySQL Instance	i-0a4d3022972fd37ee	Running	t2.micro	2/2 checks passed	No alarms	us-east-1b	-

Instance: i-04d8d6a7af9c7fcf6 (Application_Frontend)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID i-04d8d6a7af9c7fcf6 (Application_Frontend)	Public IPv4 address 100.25.117.197 open address	Private IPv4 addresses 172.31.59.58
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-100-25-117-197.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-59-58.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-59-58.ec2.internal	Elastic IP addresses It is taking a bit longer than usual to fetch your data
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	

Screenshot of the AWS EC2 Target Groups page showing a list of target groups. The selected target group is 'Shopforhome'.

Name	ARN	Port	Protocol	Target type	Load balancer
Shopforhome	arn:aws:elasticloadbalancing:us-east-1:839068719248:targetgroup/Shopforhome/5b1c3e0693cca3e7	80	HTTP	Instance	None associated

Target group: Shopforhome

Details

Target type Instance	Protocol : Port HTTP: 80	Protocol version HTTP1	VPC vpc-0c5465a694238e269
IP address type IPv4	Load balancer None associated		
Total targets	Healthy	Unhealthy	Unused
	7	0	0
	Initial		Draining
	0	0	0

CREATION OF LOAD BALANCER FOR THE TARGET GROUP

The screenshot shows the AWS CloudWatch Metrics console. A new target group named 'Shopforhome' has been created. The 'Targets' tab is selected, showing three healthy targets. The 'Monitoring' tab is also visible.

Total targets	Healthy	Unhealthy	Unused	Initial	Draining
3	3	0	0	3	0

The screenshot shows the AWS CloudWatch Metrics console. A new load balancer named 'Shopforhome-LB' has been created. The 'Basic configuration' section is filled out with the following details:

- Load balancer name:** Shopforhome-LB
- Scheme:** Internet-facing
- IP address type:** IPv4

The 'Network mapping' section indicates that traffic will be routed to targets in the selected subnets.

The screenshot shows the AWS Lambda console with the URL us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard. The page is titled "Network mapping" with an "Info" link. It displays the VPC configuration, which includes a dropdown menu showing "vpc-0d352e752f514de83" and "IPv4: 172.31.0.0/16". Below this, the "Mappings" section is shown, with "us-east-1a" selected under "Availability Zone" and "subnet-03acd8c9f0ea126b4" selected under "Subnet". Under "IPv4 settings", it says "Assigned by AWS". At the bottom, there are links for "Feedback", "Looking for language selection? Find it in the new Unified Settings", and copyright information: "© 2022, Amazon Internet Services Private Ltd. or its affiliates." followed by "Privacy", "Terms", and "Cookie preferences".

The screenshot shows the AWS Lambda console with the URL us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#CreateALBWizard. The page is titled "Security groups" and includes a sub-section "Listeners and routing".

Security groups

A security group is a set of firewall rules that control the traffic to your load balancer.

Select up to 5 security groups

shopforhome-SG
VPC: vpc-0d352e752f514de83

default
VPC: vpc-0d352e752f514de83

Listeners and routing

A listener is a process that checks for connection requests, using the protocol and port you configure. Traffic received by the listener is then routed per your specification. You can specify multiple rules and multiple certificates per listener after the load balancer is created.

▼ Listener HTTP:80

Protocol Port Default action Info

Feedback Looking for language selection? Find it in the new [Unified Settings](#).

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The screenshot shows the 'Summary' step of the AWS Load Balancer Wizard. It displays the following configuration details:

- Basic configuration**: Shopforhome-LB, Internet-facing, IPv4.
- Security groups**: default (sg-0bdcc4bab3824d544), launch-wizard-1 (sg-0202fd5aa665bddeb1).
- Network mapping**: VPC vpc-0c5465a694238e269, Subnets: us-east-1a (subnet-0c681eb1c589f8ddc), us-east-1b (subnet-084c4eb02820d30e7), us-east-1c (subnet-0473cd40f9740f2ae), us-east-1d (subnet-0065238b2b4e8bd39), us-east-1e (subnet-0f664a4843d004636), us-east-1f (subnet-00c069fb84f6d4612).
- Listeners and routing**: HTTP:80 default to Shopforhome.
- Add-on services**: None.
- Tags**: None.
- Attributes**: A note stating "Certain default attributes will be applied to your load balancer. You can view and edit them after creating the load balancer."

Successfully created Load Balancer.

The screenshot shows the AWS EC2 Load Balancers page. It lists a single load balancer entry:

DNS name	State	VPC ID	Availability Zones	Type	Created At
Shopforhome-LB-155461396	Provisioning	vpc-0c5465a694238e269	us-east-1d, us-east-1f	application	September 6, 2022 at 8:51:5

The 'Basic Configuration' section for the load balancer includes the following details:

- Name: Shopforhome-LB
- ARN: arn:aws:elasticloadbalancing:us-east-1:839068719248:loadbalancer/app/Shopforhome-LB/9f1ef203d8ba54ab
- DNS name: Shopforhome-LB-155461396.us-east-1.elb.amazonaws.com (A Record)
- State: Provisioning
- Type: application
- Scheme: internet-facing
- IP address type: ipv4
- VPC: vpc-0c5465a694238e269
- Availability Zones: subnet-0065238b2b4e8bd39 - us-east-1d

ShopForHome

localhost:4200/product

Cart | Sign In | Sign Up

80%

SHOP FOR HOME

SHOP LIVING ROOM | SHOP BED ROOM | SHOP DINING ROOM | SHOP STUDY ROOM | HOME ELECTRONICS

Get Whatever You Want!

Search Product

Fan

Description: Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM

Price: \$1299.00

Stock: 200

Fridge

Description: Samsung's new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES

Price: \$122,500.00

Stock: 200

Washing machine

Description: LG Capacity(7kg) Energy Efficiency (A+++) 1400 RPM Motor Direct Drive, Inverter Direct Drive, (Less noise and vibration), 10-Year Motor Warranty, 22-Year VDE Certification, TrueSteam™, Smart Diagnosis™

Price: \$41,000.00

Activate Windows
Go to Settings to activate Windows

36

Creation of S3 Buckets

The screenshot shows the AWS S3 console interface. On the left, a sidebar menu includes 'Buckets', 'Storage Lens', and 'AWS Marketplace for S3'. The main content area displays a list of objects under the 'Images' folder of the 'shopfromhome-products' bucket. The objects listed are:

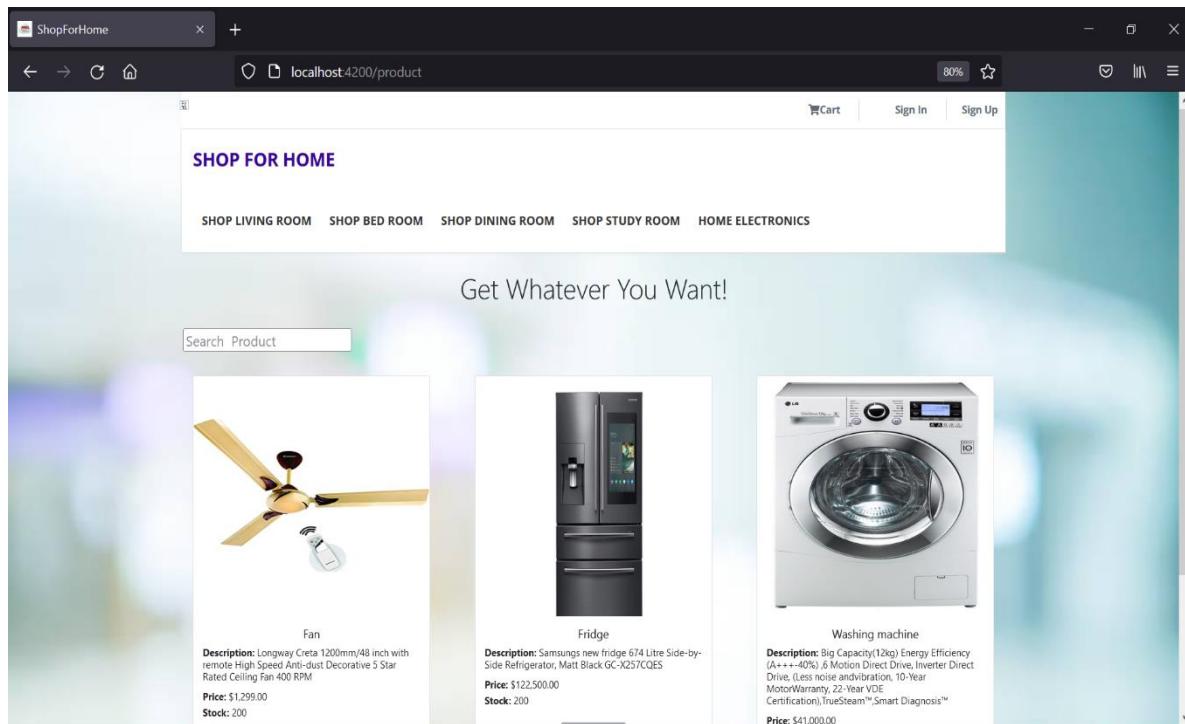
Name	Type	Last modified	Size	Storage class
HE-1.jpg	jpg	September 6, 2022, 17:50:15 (UTC+05:30)	7.9 KB	Standard
HE-2.jpg	jpg	September 6, 2022, 17:50:19 (UTC+05:30)	42.7 KB	Standard
HE-3.jpg	jpg	September 6, 2022, 17:50:29 (UTC+05:30)	192.8 KB	Standard
SBR-1.jpg	jpg	September 6, 2022, 17:50:32 (UTC+05:30)	27.8 KB	Standard
SBR-2.jpg	jpg	September 6, 2022, 17:50:44 (UTC+05:30)	54.3 KB	Standard
SBR-3.webp	webp	September 6, 2022, 17:50:46 (UTC+05:30)	25.6 KB	Standard

The screenshot shows the AWS S3 console interface. On the left, a sidebar menu includes 'Buckets', 'Storage Lens', and 'AWS Marketplace for S3'. The main content area displays an 'Account snapshot' and a list of buckets. The bucket listed is:

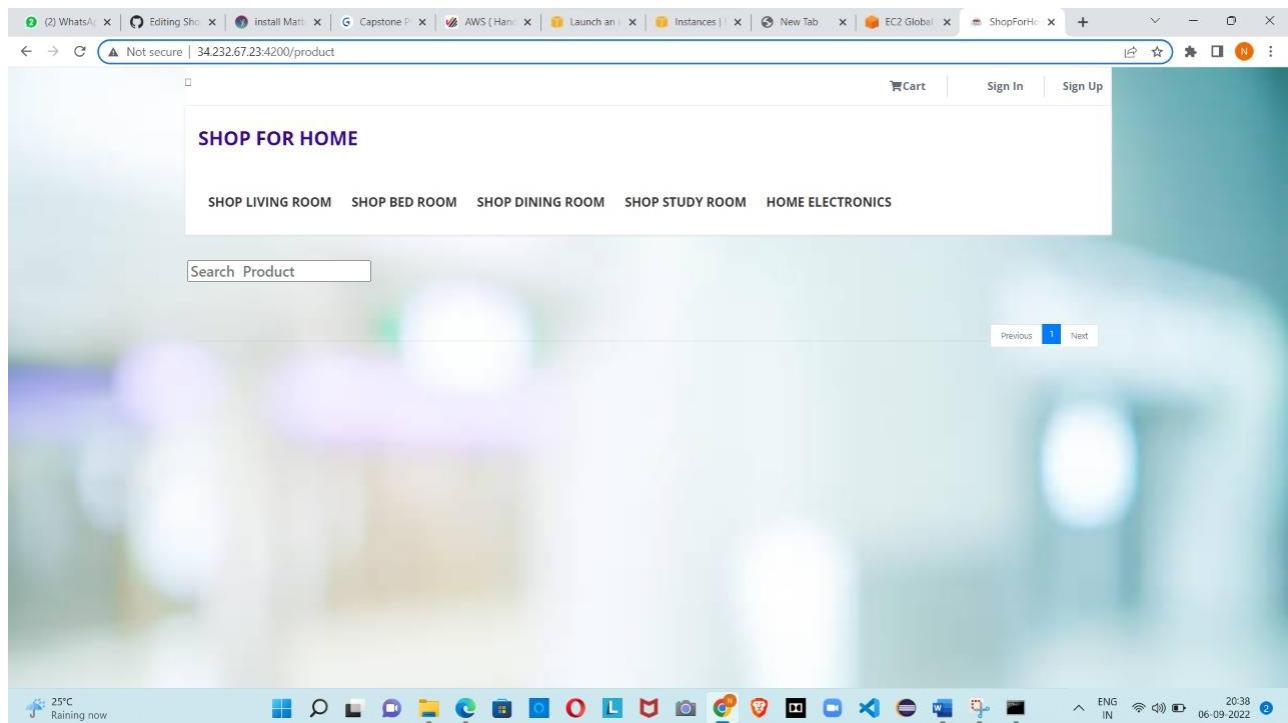
Name	AWS Region	Access	Creation date
shopfromhome-products	US East (N. Virginia) us-east-1	Objects can be public	September 6, 2022, 17:47:14 (UTC+05:30)

RESULTS

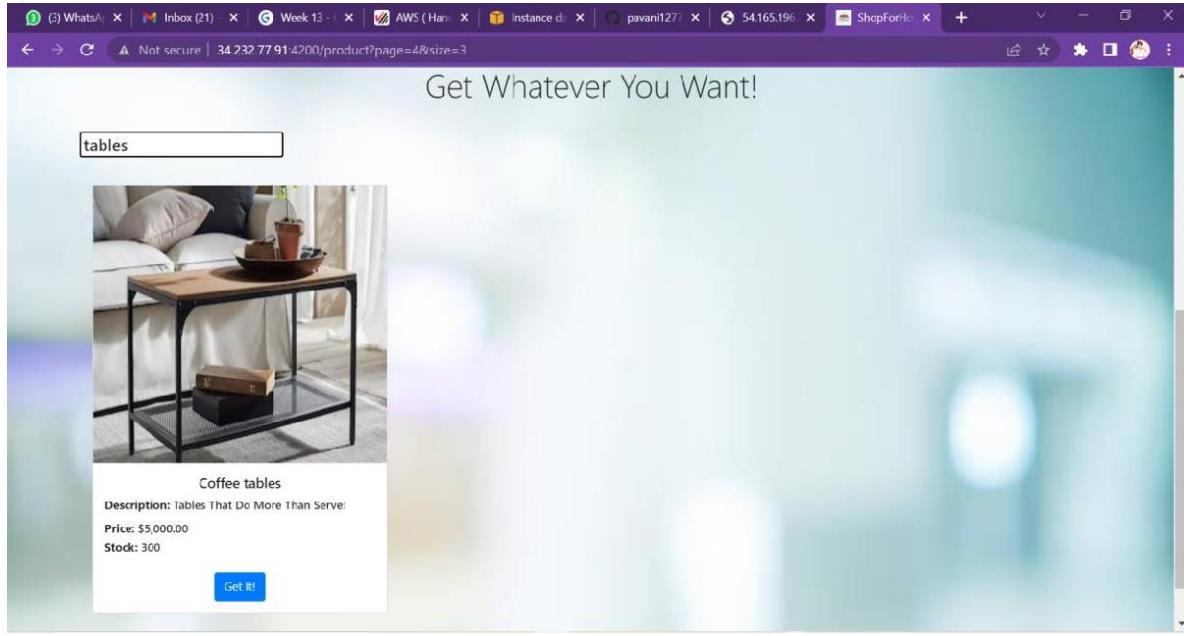
Home Page



Product Categories



Search Functionality



Add to Cart

The screenshot shows the 'SHOP FOR HOME' website's shopping cart page at localhost:4200/cart. The cart contains two items:

IMAGE	DESCRIPTION	REF NO	QUANTITY	UNIT PRICE	TOTAL
	Plates	SDR04	1	₱100.00	₱100.00
	Fan	HE01	2	₱1,299.00	₱2,598.00

A coupon message indicates "COUPON APPLIED : TOTAL: ₱2,698.00". The final summary shows:

SUB TOTAL	₱2,698.00
SHIPPING COST	₱20.00
TOTAL	₱2,718.00

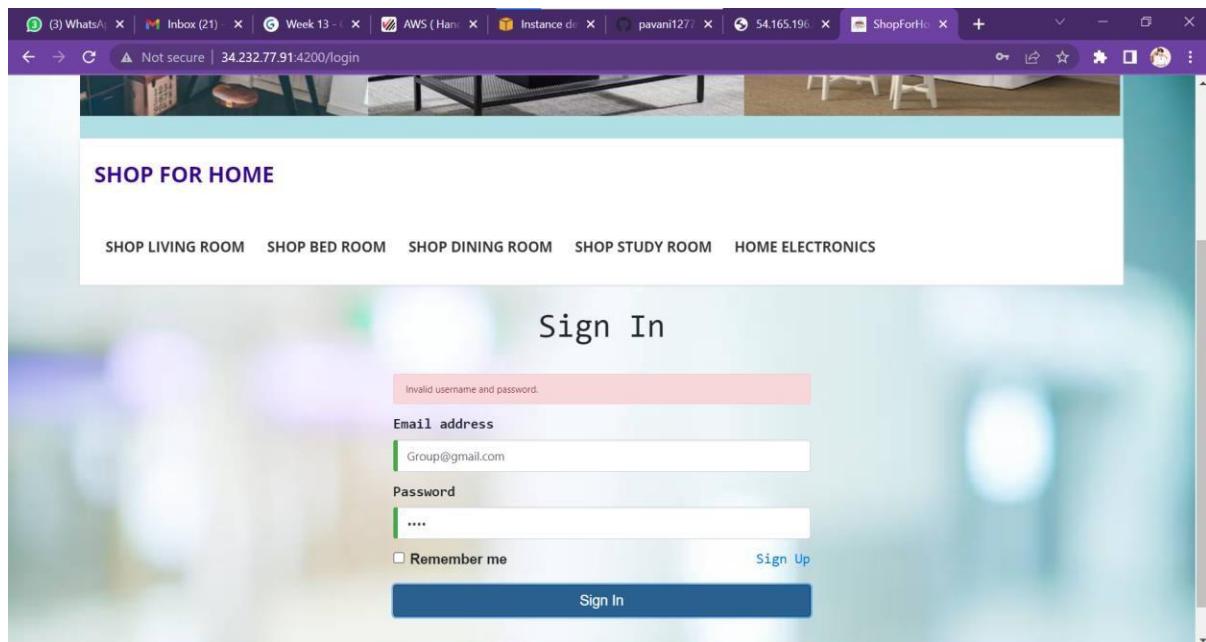
User Sign Up

The screenshot shows the 'SHOP FOR HOME' website's sign up page at localhost:4200/register. The page title is "Sign Up". It features a form with the following fields:

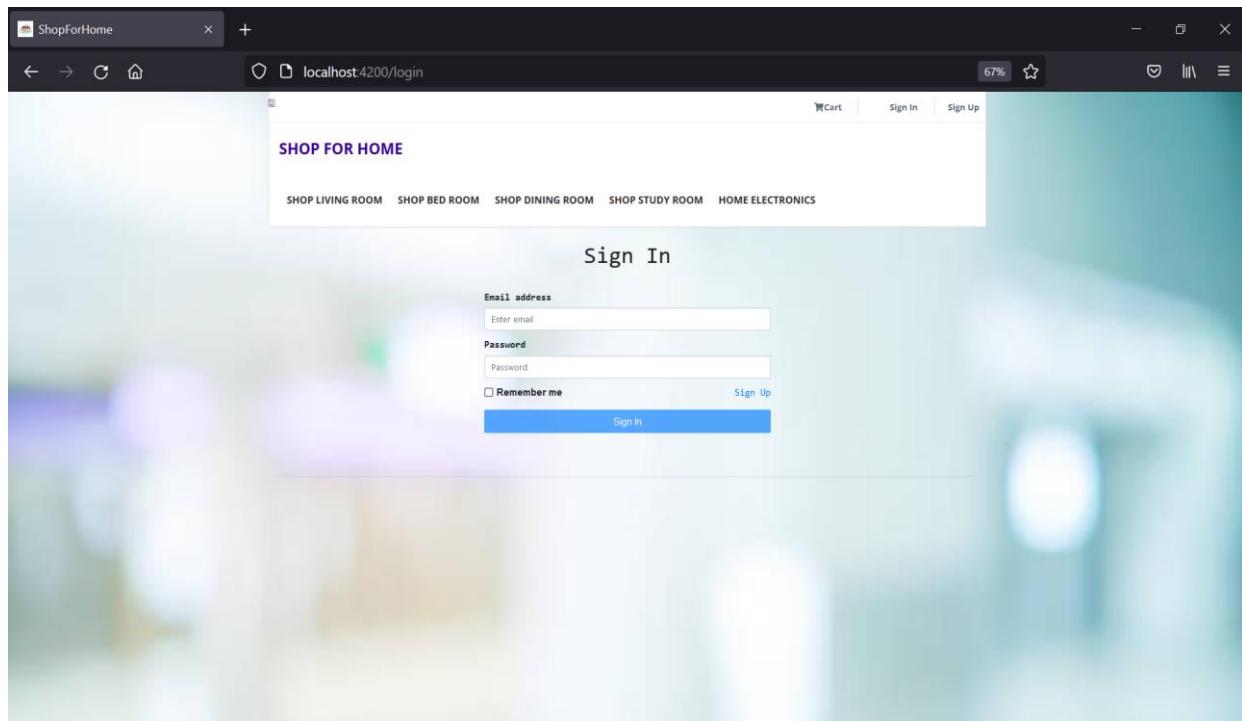
- Email address:
- Name:
- Password:
- Phone:
- Address:

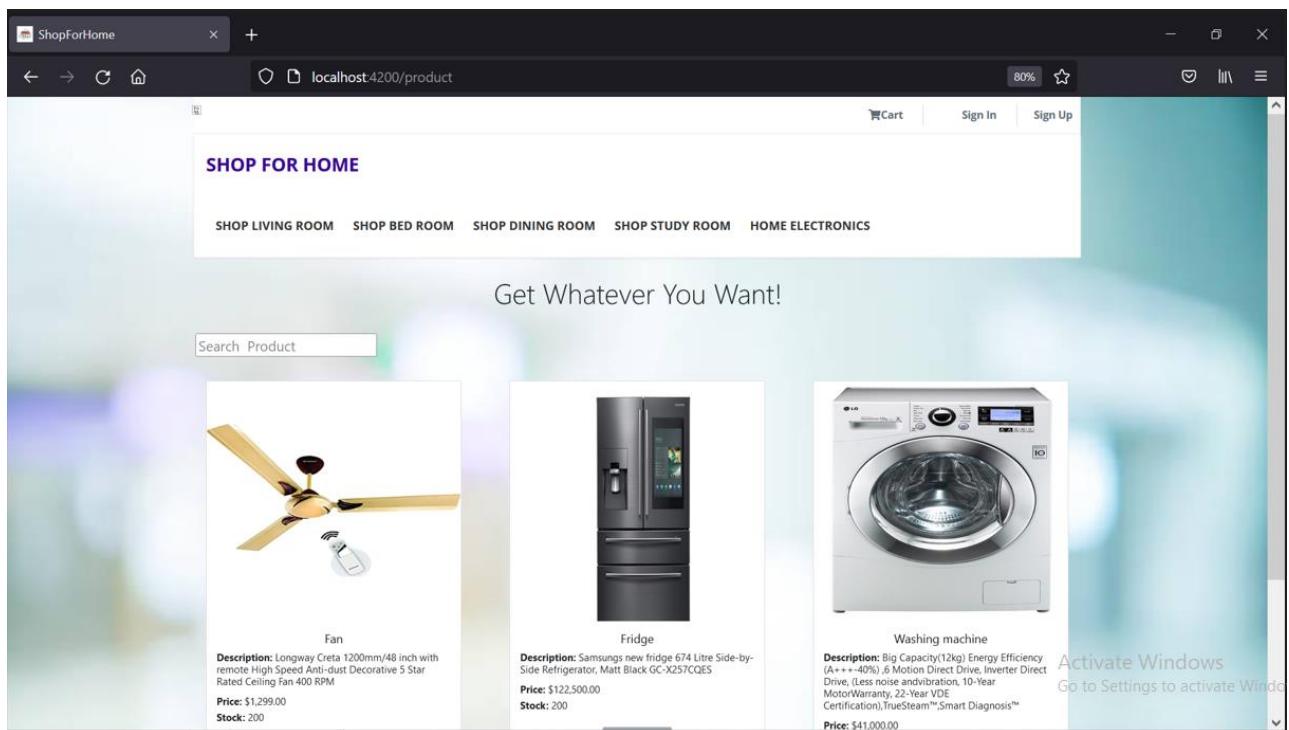
A blue "Sign Up" button is at the bottom of the form.

Invalid Credentials



Valid Credentials





Quantity Increase or decrease

The screenshot shows a web browser window for 'ShopForHome' at 'localhost:4200/cart'. The page includes a header with a search bar, navigation links for 'SHOP LIVING ROOM', 'SHOP BED ROOM', 'SHOP DINING ROOM', 'SHOP STUDY ROOM', and 'HOME ELECTRONICS', and user account options for 'Cart', 'Wishlist', 'Orders', 'user', and 'Sign Out'. Below the header is a banner with the text 'SHOP FOR HOME'. The main content is a 'SHOPPING CART' section. A table lists the items in the cart:

IMAGE	DESCRIPTION	REF NO	QUANTITY	UNIT PRICE	TOTAL
	Coffee tables	SLR02	<input type="text" value="8"/>	\$5,000.00	\$40,000.00

Below the table, there are fields for 'Select Coupon' and 'COUPON APPLIED:'. The total for the cart is listed as 'TOTAL: \$40,000.00'. To the right, a summary shows 'SUB TOTAL: \$40,000.00', 'SHIPPING COST: \$20.00', and 'TOTAL: \$40,020.00'. At the bottom are buttons for 'CONTINUE SHOPPING' and 'CHECKOUT'.

Wishlist

The screenshot shows a web browser window for 'ShopForHome' at the URL 'localhost:4200/wishlist'. The page has a header with navigation links: 'Cart', 'Wishlist', 'Orders', 'user', and 'Sign Out'. Below the header is a 'SHOP FOR HOME' section with links to 'SHOP LIVING ROOM', 'SHOP BED ROOM', 'SHOP DINING ROOM', 'SHOP STUDY ROOM', and 'HOME ELECTRONICS'. The main content area is titled 'My Wishlist' and contains a table with two items:

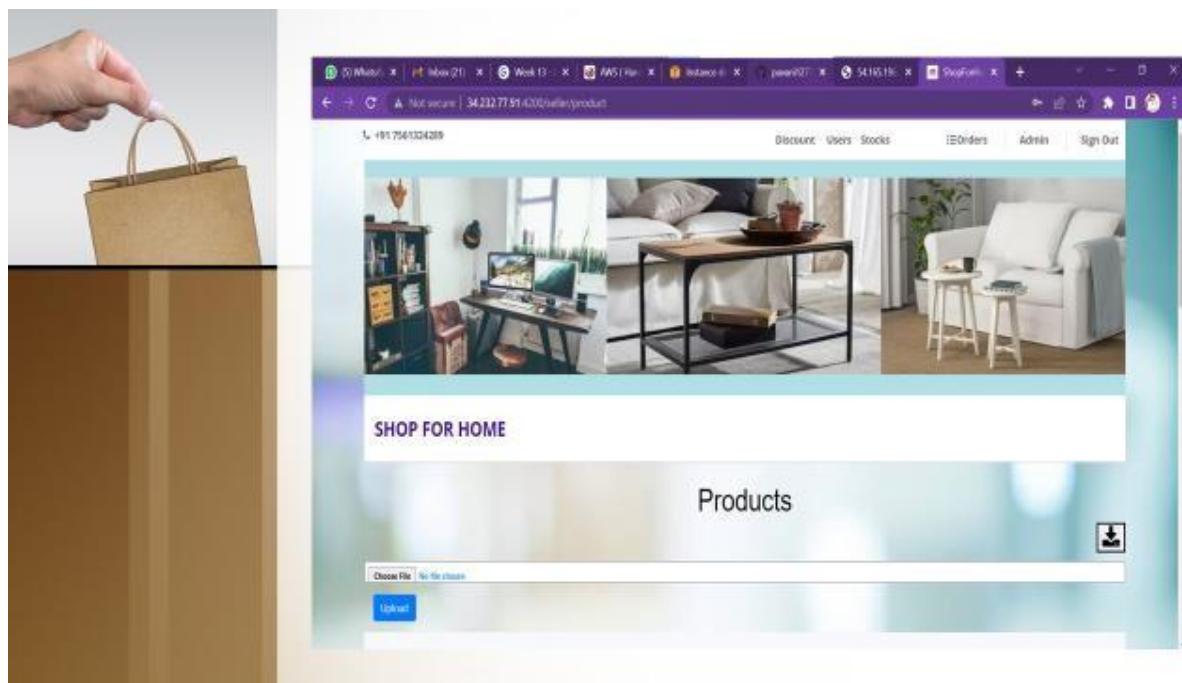
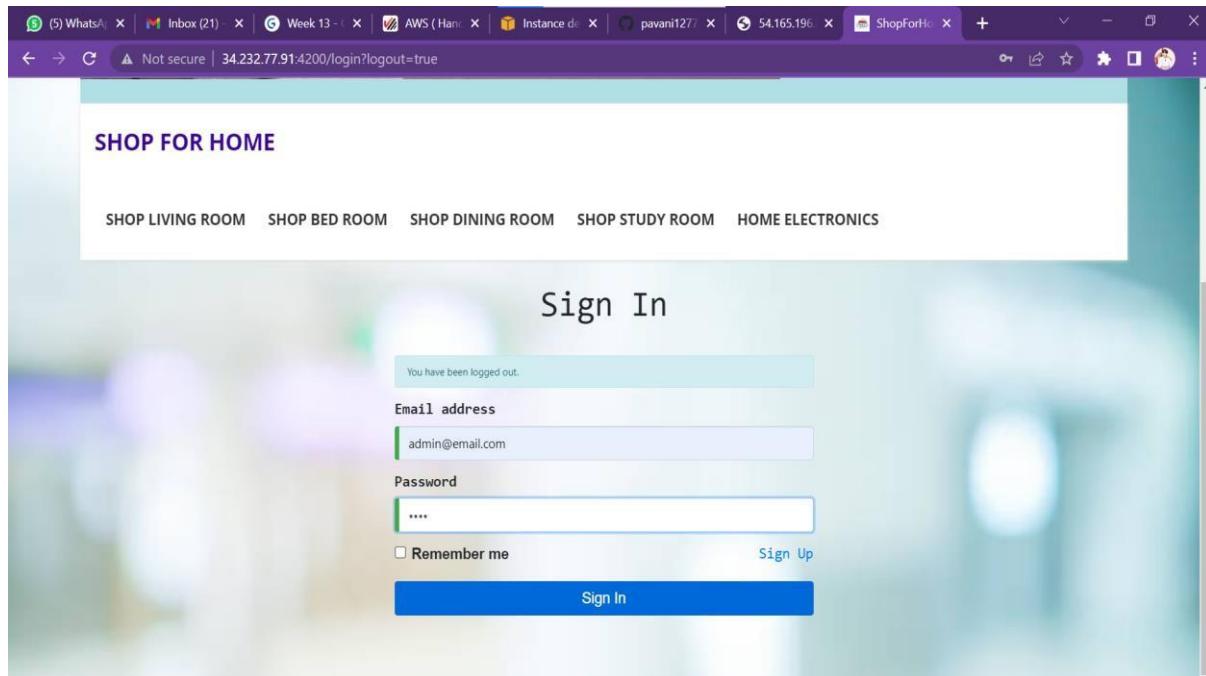
Photo	ID	Name	Price	Action
	SLR02	Coffee tables	\$5,000.00	Remove
	SDR02	Table cloth	\$566.00	Remove

View Order Details

The screenshot shows a web application titled "ShopForHome" running on "localhost:4200/order". The interface includes a top navigation bar with links for "Discount", "Users", "Stocks", "Orders" (selected), and "Sign Out". A sidebar on the left contains a "SHOP FOR HOME" section. The main content area is titled "ORDERS" and displays a table with the following data:

Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Date	Status
9	user	user@gmail.com	1234567890	delhi	\$5,000.00	Sep 5, 2022	New
6	Saurabh Kumar	saurabhc3@gmail.com	+918736861208	varanasi	\$5,000.00	Sep 4, 2022	Finished

Admin Login

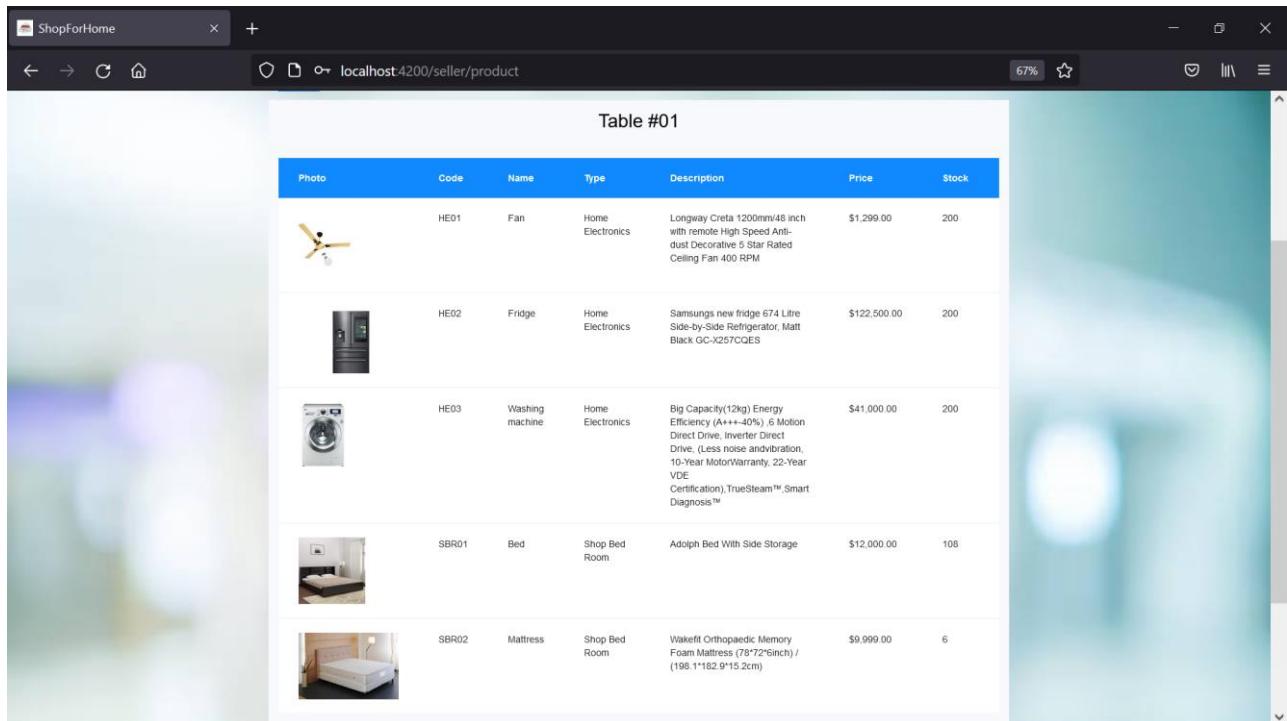


Edit Admin Profile

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled 'Edit Profiles' and has the URL '34.232.77.91:4200/profile'. The page content includes fields for 'Email address' (admin@email.com), 'Name' (Admin-G5), 'Password' (*****), 'Phone' (8923493456), and 'Address' (32-1-2 Vizag). A blue 'Update' button is located at the bottom of the form.

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is titled 'Products' and has the URL '34.232.77.91:4200/seller/product'. The page features a header with a phone number (+91 7561324289) and navigation links for 'Discount', 'Users', 'Stocks', 'Orders', 'Admin-G5', and 'Sign Out'. Below the header, there are three product images: a desk setup with a computer monitor, a black metal coffee table, and a white sofa. A 'SHOP FOR HOME' banner is visible above the products. At the bottom, there is a file upload section with a 'Choose File' button (labeled 'No file chosen'), an 'Upload' button, and a download icon.

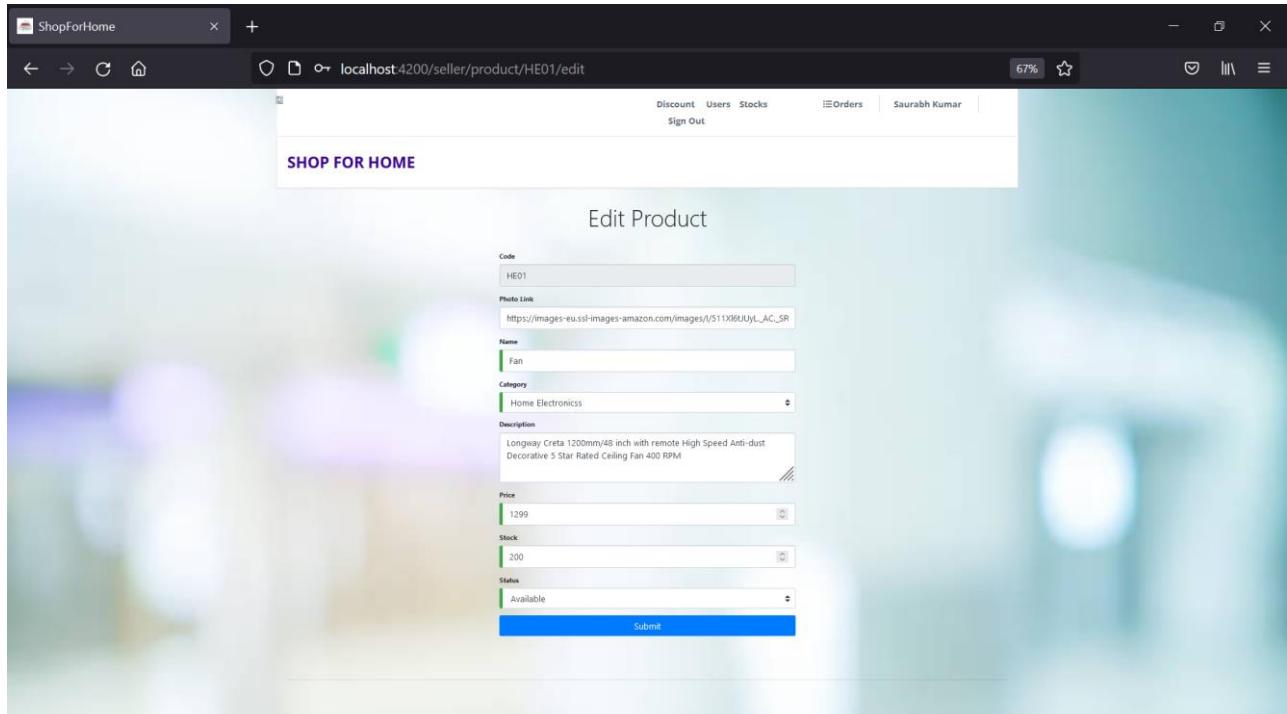
Products List



A screenshot of a web browser window titled "ShopForHome". The address bar shows "localhost:4200/seller/product". The main content is a table titled "Table #01" with the following data:

Photo	Code	Name	Type	Description	Price	Stock
	HE01	Fan	Home Electronics	Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM	\$1,299.00	200
	HE02	Fridge	Home Electronics	Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES	\$122,500.00	200
	HE03	Washing machine	Home Electronics	Big Capacity(12kg) Energy Efficiency (A+++~40%), 6 Motion Direct Drive, Inverter Direct Drive, (Less noise and vibration), 10-Year Motor Warranty, 22-Year VDE Certification, TrueSteam™, Smart Diagnosis™	\$41,000.00	200
	SBR01	Bed	Shop Bed Room	Adolph Bed With Side Storage	\$12,000.00	108
	SBR02	Mattress	Shop Bed Room	Wakefit Orthopaedic Memory Foam Mattress (78*72*8inch) / (198.1*182.9*15.2cm)	\$9,999.00	6

Edit Product



A screenshot of a web browser window titled "ShopForHome". The address bar shows "localhost:4200/seller/product/HE01/edit". The main content is an "Edit Product" form for a product with code "HE01". The form fields are as follows:

Code	HE01
Photo Link	https://images-eu.ssl-images-amazon.com/images/I/511XIGUJUL_AC_SR
Name	Fan
Category	Home Electronics
Description	Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM
Price	1299
Stock	200
Status	Available

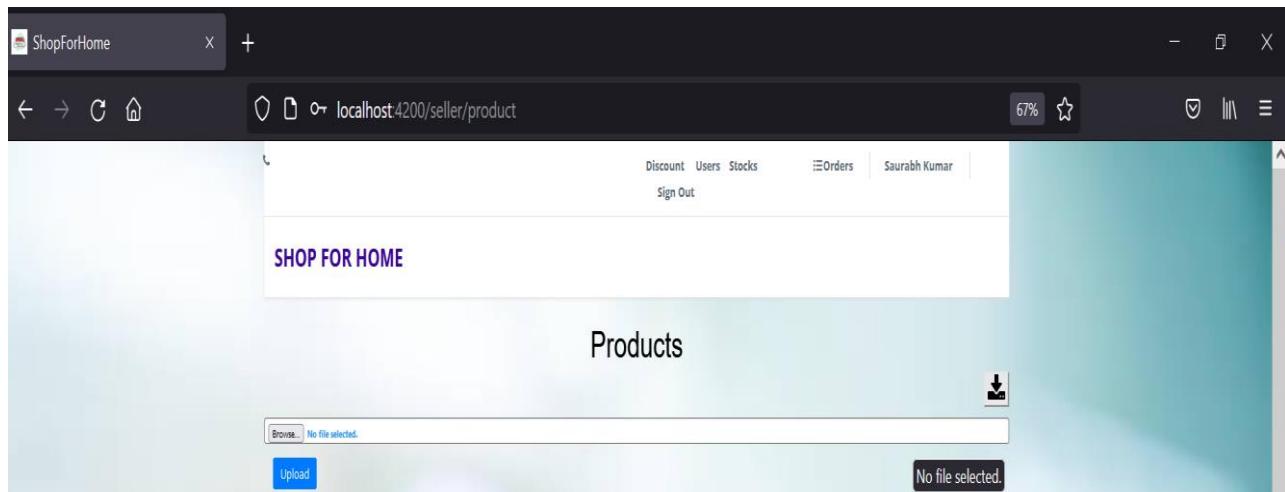
The form includes a "Submit" button at the bottom.

Updated Product

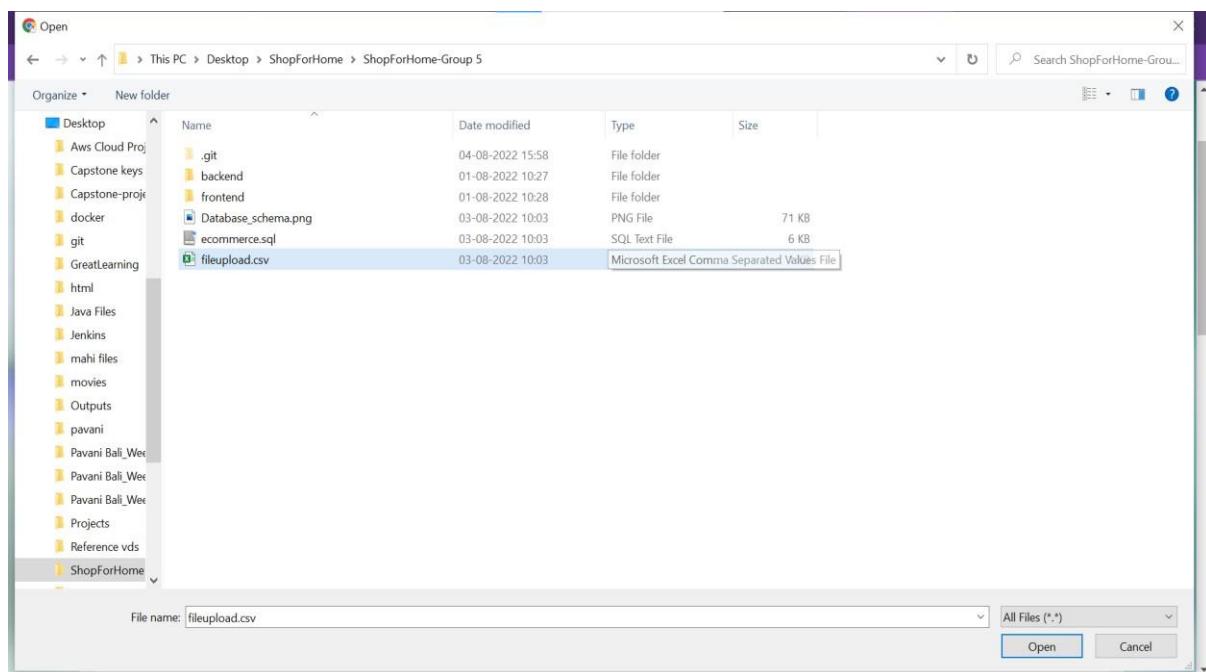
The screenshot shows a web browser window with multiple tabs open at the top. The active tab's URL is [Not secure | 34.232.77.91:4200/seller/product](http://34.232.77.91:4200/seller/product). The page content is titled "Table #01" and displays a table of three products:

Photo	Code	Name	Type	Description	Price	Stock	Status
	HE01	Fan	Shop Living Room	Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM	\$999.00	200	Available
	HE02	Fridge	Home Electronics	Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES	\$122,500.00	200	Unavailable
	HE03	Washing machine	Home Electronics	Big Capacity(12kg) Energy Efficiency (A+++40%), 6 Motion Direct Drive, Inverter Direct Drive, (Less noise and vibration, 10-Year Motor Warranty, 22-Year VDE Certification) TrueSteam™ Smart	\$41,000.00	200	Unavailable

Bulk Upload Products



fileupload.csv



Bulk upload

A screenshot of Microsoft Excel with the file "fileupload.csv - Excel" open. The ribbon shows tabs for Home, Insert, Page Layout, Formulas, Data, Review, View, and Help. A message bar at the top says "POSSIBLE DATA LOSS Some features might be lost if you save this workbook in the comma-delimited (.csv) format. To preserve these features, save it in an Excel file format." The "Save As..." button is highlighted. The worksheet contains the following data:

Productid	ProductNm	Price	Stock	Description	Productic	Category	Type
SLR08	Wheel Chi	2899	25	Feel comf	https://as	0	
SBR04	Bed Light	600	100	Have a nich	https://as	1	

Coupons page

The screenshot shows a web browser window titled "ShopForHome" with the URL "localhost:4200/discount". The top navigation bar includes links for "Discount", "Users", "Stocks", "Orders", and a user profile for "Saurabh Kumar". A "Sign Out" link is also present. Below the navigation, a header says "SHOP FOR HOME" and "Coupons". A search bar contains the text "NEW25". A green button labeled "Add Coupon" is visible. The main content area displays a table with one row:

Couponcode	Action
NEW25	<button>Delete</button>

Pagination controls "Previous" and "Next" are at the bottom right.

Add Coupons

The screenshot shows a web browser window with multiple tabs open, including "ShopForHome" at the URL "34.232.77.91:4200/discount". The top navigation bar and user profile are identical to the previous screenshot. The main content area displays a header "SHOP FOR HOME" and "Coupons". A search bar contains the text "ShopForHome50". A green button labeled "Add Coupon" is visible. The main content area displays a table with three rows:

Couponcode	Action
sales400	<button>Delete</button>
ShopForHome50	<button>Delete</button>
welcome	<button>Delete</button>

Delete Coupons

The screenshot shows the 'Coupons' section of the ShopForHome website. At the top, there are three images of home furniture: a desk setup, a coffee table, and a sofa. Below the images, a banner says 'SHOP FOR HOME'. The main area is titled 'Coupons' and contains a search bar with placeholder text 'Enter Some Text To Search'. A green button labeled 'Add Coupon' is visible. A table lists two coupons:

Couponcode	Action
sales400	<button>Delete</button>
ShopForHome50	<button>Delete</button>

At the bottom right, there are navigation buttons for 'Previous', '1', and 'Next'.

Remove User

The screenshot shows the 'Users' section of the ShopForHome website. At the top, there are links for 'Discount', 'Users', 'Stocks', 'Orders', and a sign-out link for 'Saurabh Kumar'. The main area is titled 'SHOP FOR HOME' and contains a search bar with placeholder text 'Enter Some Text To Search'. The 'Users' table lists two users:

Email	Name	Role	Action
saurabhc3@gmail.com	Saurabh Kumar	ROLE_MANAGER	
user@gmail.com	user	ROLE_CUSTOMER	<button>Remove User</button>

At the bottom right, there are navigation buttons for 'Previous', '1', and 'Next'.

Stock Report

A screenshot of a web browser window displaying a stock report. The browser has multiple tabs open at the top. The main content area shows a table with four rows, each representing a different product.

Fridge	Home Electronics	Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES	\$122,500.00	200	Unavailable	Edit	<button>email</button>
Washing machine	Home Electronics	Big Capacity(12kg) Energy Efficiency (A+++40%) ,6 Motion Direct Drive, Inverter Direct Drive, (Less noise andvibration, 10-Year MotorWarranty, 22-Year VDE Certification),TrueSteam™,Smart Diagnosis™	\$41,000.00	200	Unavailable	Edit	<button>email</button>
Bed	Shop Bed Room	Adolph Bed With Side Storage	\$12,000.00	108	Available	Edit	<button>email</button>
Mattress	Shop Bed Room	Wakefit Orthopaedic Memory Foam Mattress (78*72*6inch) / (198.1*182.9*15.2cm)	\$9,999.00	6	Available	Edit	<button>email</button>

Order details

The screenshot shows a web browser window for 'ShopForHome' at 'localhost:4200/order'. The page has a header with 'Cart', 'Wishlist', 'Orders', 'user', and 'Sign Out'. Below the header is a navigation bar with links: 'SHOP LIVING ROOM', 'SHOP BED ROOM', 'SHOP DINING ROOM', 'SHOP STUDY ROOM', and 'HOME ELECTRONICS'. The main content area is titled 'ORDERS' and contains a table with one row of data. The table columns are: Order #, Customer Name, Customer Email, Customer phone, Shipping Address, Total, Order Date, Status, and Action. The data row shows: Order # 9, Customer Name user, Customer Email user@gmail.com, Customer phone 1234567890, Shipping Address delhi, Total \$5,000.00, Order Date Sep 5, 2022, Status New, and Action buttons for 'Show' and 'Cancel'. Navigation buttons 'Previous' and 'Next' are at the bottom of the table.

Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Date	Status	Action
9	user	user@gmail.com	1234567890	delhi	\$5,000.00	Sep 5, 2022	New	Show Cancel

View order details

The screenshot shows a web browser window for 'ShopForHome' at '34.232.77.91:4200/order/4'. The page has a header with various tabs and icons. The main content area is titled 'Order Detail' and contains a table with one row of data. The table columns are: Photo, Name, Description, Price, Quantity, and Subtotal. The data row shows: Photo of a coffee table, Name Coffee tables, Description Tables That Do More Than Serve!, Price \$5,000.00, Quantity 1, and Subtotal \$5,000.00. A total of '\$5,000.00' is displayed at the bottom right.

Photo	Name	Description	Price	Quantity	Subtotal
	Coffee tables	Tables That Do More Than Serve!	\$5,000.00	1	\$5,000.00

CONCLUSION

By performing or following the above-mentioned methodology we can conclude that

- We can create a web page using the Angular, Spring boot, Node-JS, Mysql, Eclipse etc..
- In this project, we have created the page of name "**SHOP FOR HOME**" in which a user can buy the house hold items like decorating things and many other.
- We are needed updated or latest version software for smooth working of the project.
- Both frontend and back end needs to run in a frequent manner for to have the page with user interface flexibility.

At the end we can say that web page is created by following the path regulations and shown the output as required.

References

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