

# **WIPRO CAPSTONE PROJECT**

## **SHOP FOR HOME**

### **GROUP-3**

Submitted in the partial fulfilment 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 main aim of this project is to build an E-commerce website of home décor items in the Covid situation where all the offline shops are closed. E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The objective of this project is to develop a general-purpose e-commerce store where product like clothes, books etc. can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for clothes. An online store is a virtual store on the Internet where customers can browse the catalogue and select products of interest. The selected items may1 be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e-mail notification is sent to the customer as soon as the order is placed.

### **1.1 PURPOSE:**

The main purpose of this module is to provide all the functionality related to customers. It tracks all the information and details of the customer. We have developed all Category of CRUD (Create, Read, Update and Delete) operations of the customers. This is a role-based module where admin can perform each and every operation on data but the customer will be able to view only his/her data, so access level restrictions has also been implemented on the project. We also provide customized Angular and Java Spring Boot" Projects for beginners.

## **1.2 PROBLEM STATEMENT:**

During this pandemic time, it has been difficult to shop offline with the fear of spreading of corona virus. Hence many offline home décor shops have been closed due to no visitors.

Almost all small businesses have been paused due to the pandemic. Hence there must be a way created for these small businesses to run even in these pandemic times so that they don't have to bear huge loss.

Shop for Home is a popular Store in the market for shopping the home décor stuff. Due to Covid 19 all the offline shopping stopped. So, the store wants to move to the online platforms and wants their own web application.

There are 2 users on the application:

- 1.User
- 2.Admin

## **1.3 SOLUTION:**

Hence E – commerce web application came into picture. Where the vendors can sell their products online so that customers don't have to travel during these hard times and the business will be continued to run.

## **1.4 SCOPE OF THE PROJECT:**

Online selling and purchasing offer innumerable benefits to both sellers and buyers, and these advantages are also the reasons for the rising scope of e-Commerce. As of 2017, the total value of the e-commerce business in India was USD 38.5 billion, according to IBEF, and it is expected to hit USD 200 billion by 2026. That gives us a good idea about the future scope of e-commerce in India.

## 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 boot API's
- **Tomcat:** Project will be run over the Tomcat server
- **AWS:** ShopForHome application will be deployed in Aws Ec2 instances

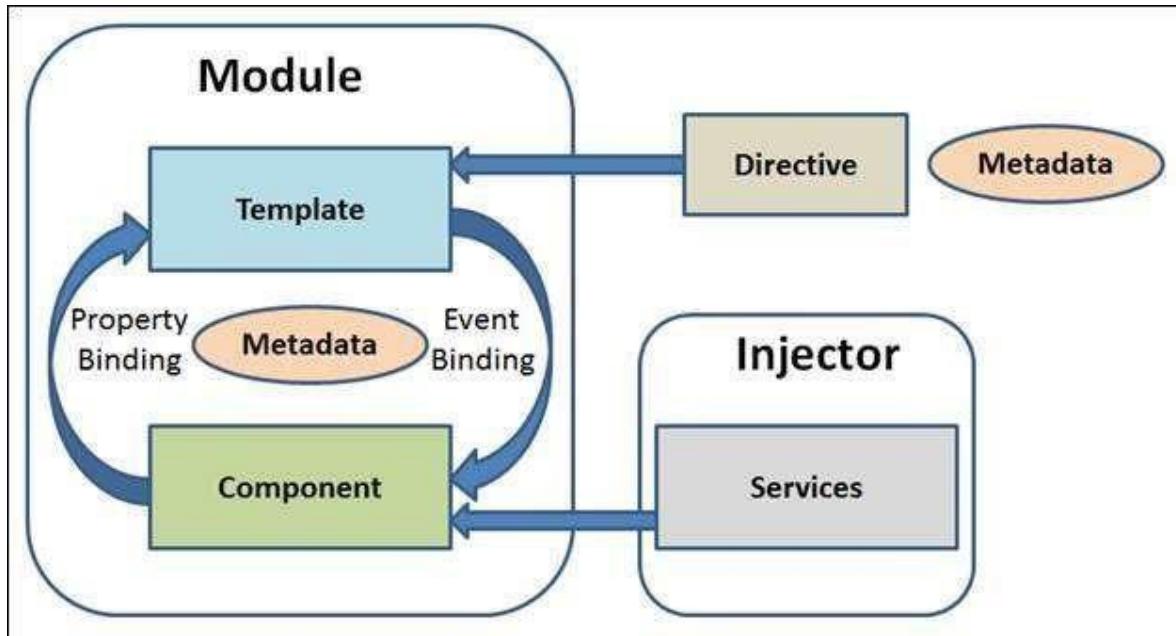
### 2.1 Supported Operating System

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

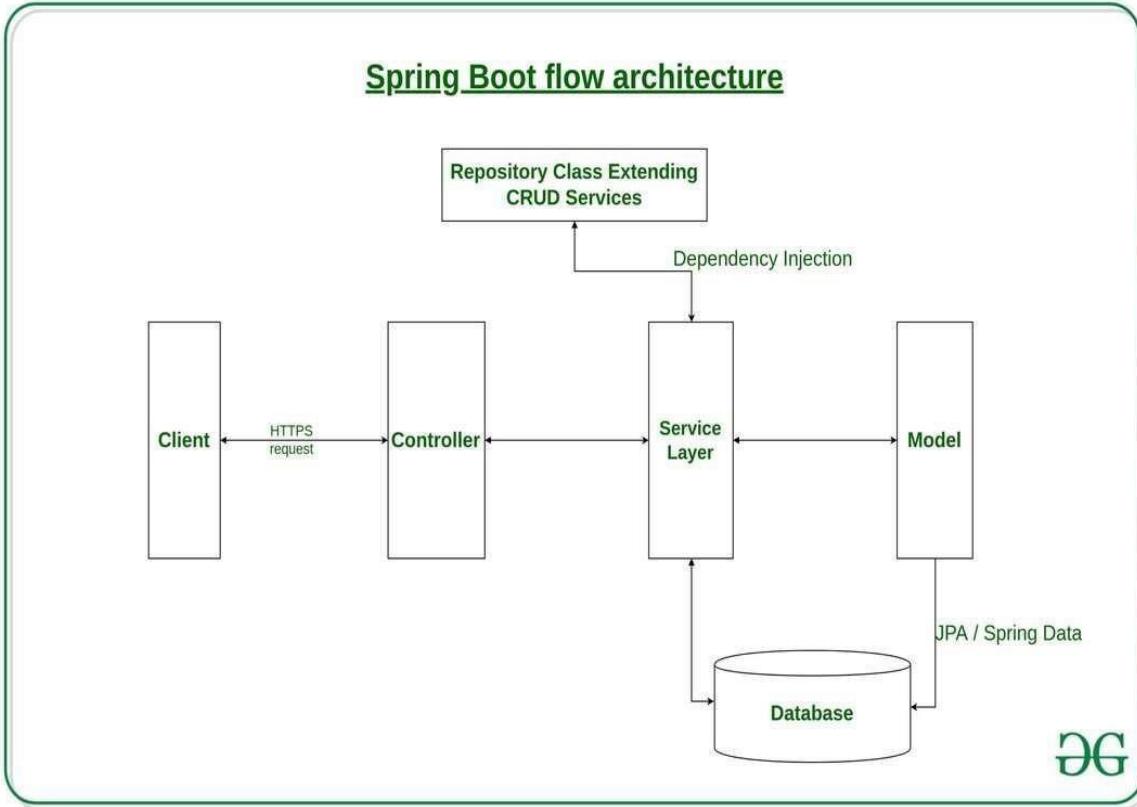


**Fig. 2.1 Angular Architecture**

These are eight main blocks of Angular.

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

## Spring Boot Architecture

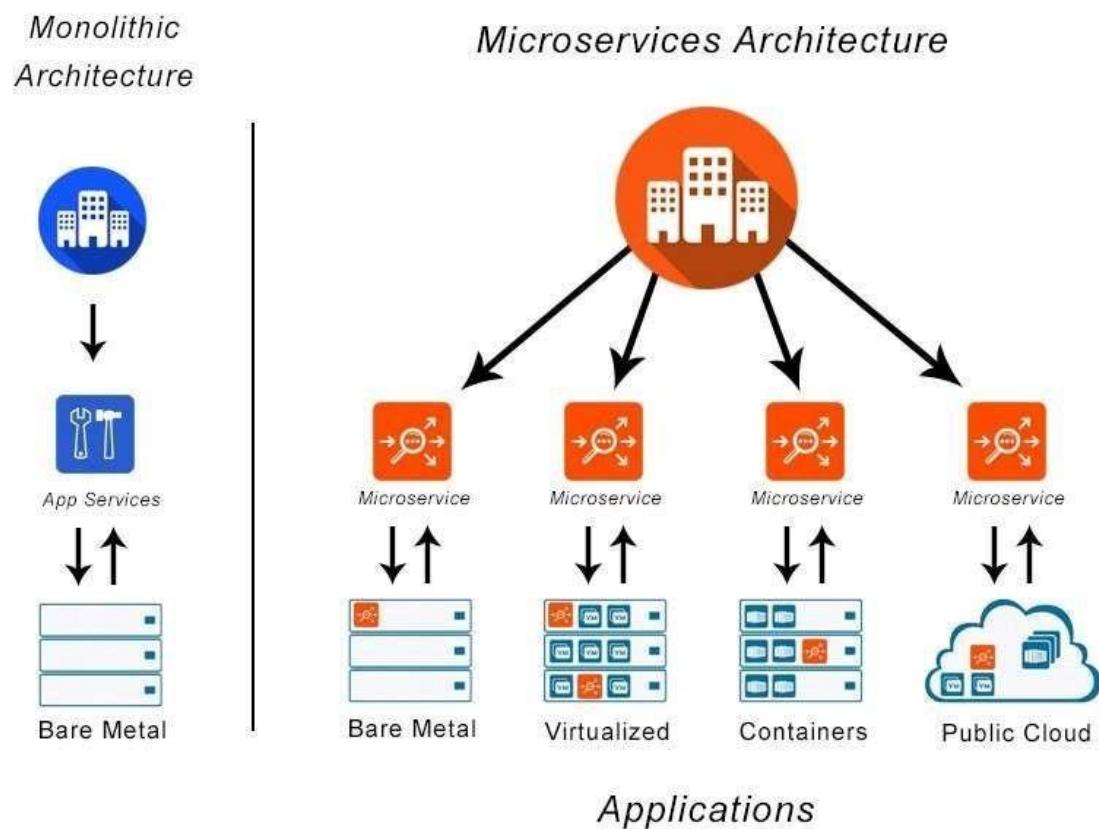


**Fig. 2.2 Spring Boot Architecture**

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

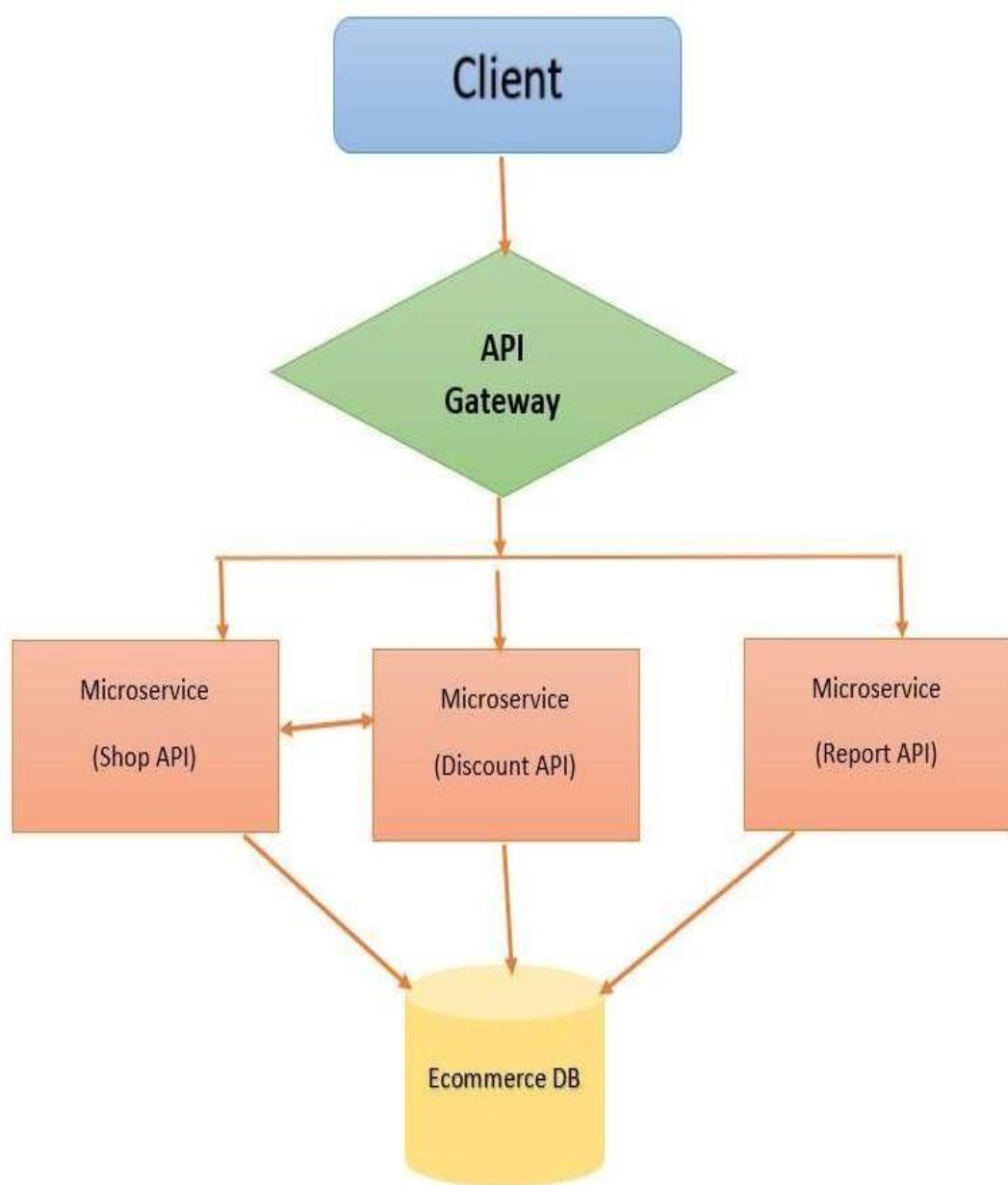
## Micro Services Architecture



**Fig 2.3 Microservices Architecture**

Typically, microservices are used to speed up application development. Microservices architectures built using Java are common, especially Spring Boot ones. It's also common to compare microservices versus service-oriented architecture. Both have the same objective, which is to break up monolithic applications into smaller components, but they have different approaches.

## Project Architecture



**Fig 3.4 Project Architecture**

## **API Gateway**

The API gateway is the entry point for clients. Instead of calling services directly, clients call the API gateway, which forwards the call to the appropriate services on the back end.

Advantages of using an API gateway include:

- It decouples clients from services. Services can be versioned or refactored without needing to update all of the clients.
- Services can use messaging protocols that are not web friendly, such as AMQP.
- The API Gateway can perform other cross-cutting functions such as authentication, logging, SSL termination, and load balancing.
- Out-of-the-box policies, like for throttling, caching, transformation, or validation.

## **Shop Microservice**

Shop Microservice contains business logic and functionalities related to product view page, Cart, Checkout and User login Features. It connects to ecommerce DB (MySQL). This service runs with port number 8080 in this application.

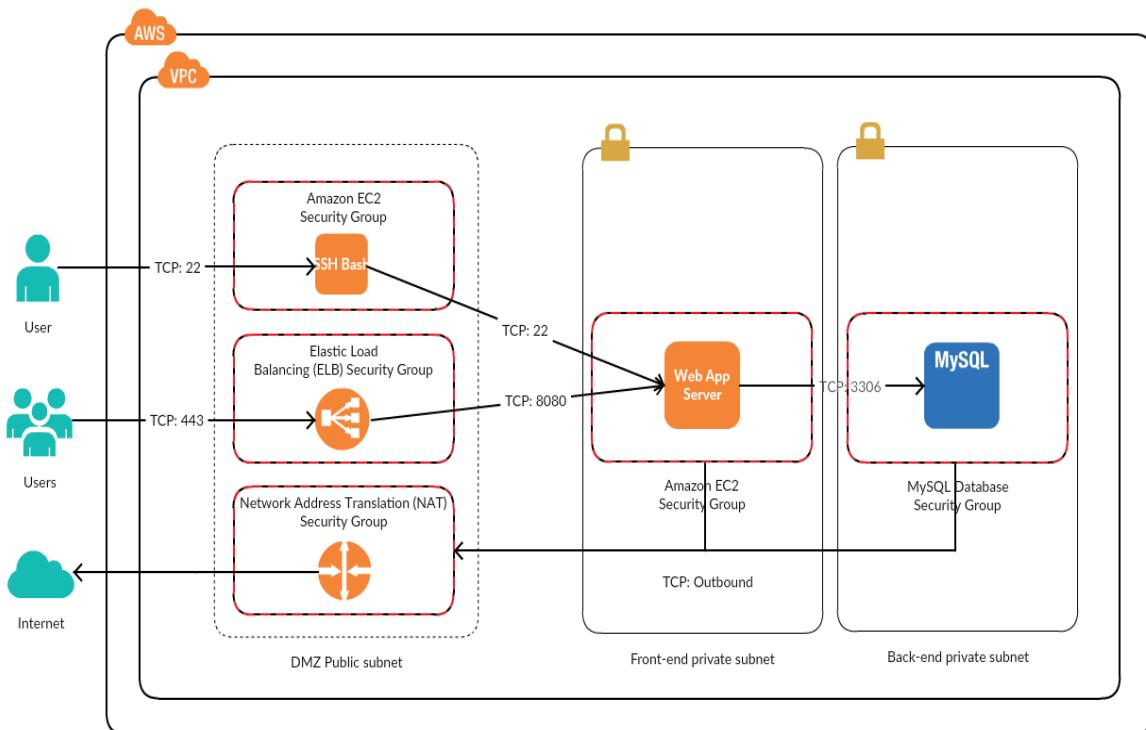
## **Discount Microservice**

Discount Microservice contains business logic and functionalities for discount and coupon list Features. Admin can add and delete coupons from Discount UI from Admin module. It connects to ecommerce DB (MySQL). This service configured with application properties which runs the service in port number 8081 in this application.

## Report Microservice

Report Microservice contains business logic and functionalities for report download option. Admin can download the stocks report as an excel file from Admin module. It connects to ecommerce DB (MySQL). This service configured with application properties which runs the service in port number 8082 in this application.

## AWS ARCHITECTURE

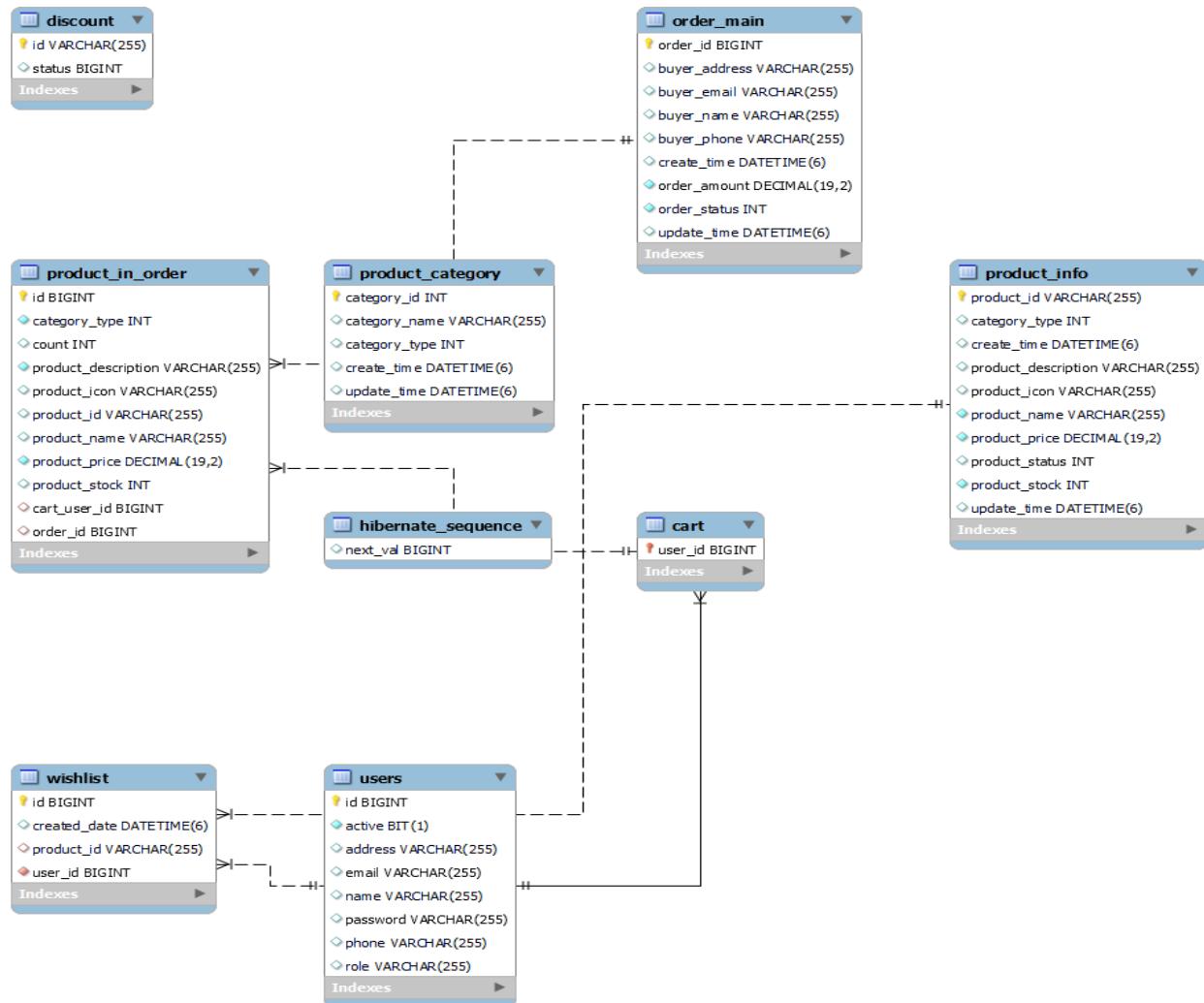


Reference: [https://cdn.amazonblogs.com/security\\_awsblog](https://cdn.amazonblogs.com/security_awsblog)

[online diagramming & design]  [creately.com](#)

AWS architecture diagram that shows the basic structure of Amazon Web Services architecture. It shows the basic AWS services, such as Route 53, Elastic Load Balancer, EC2, security groups, CloudFront, Amazon S3 bucket, etc. By using S3 (Simple Storage Service), companies can easily store and retrieve data of various types using Application Programming Interface calls.

# 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 business, the website of your business should be easy to use for even a non-technical user. Do you know that a general user takes just 0.05 seconds to figure out whether the website is worth its time or not? Thus you have to give special attention to the design of your homepage, CTAs, and easy checkout to get past those milliseconds of doom. The usability of a website is also defined 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:**

Security comes with utmost importance if your site is dealing with monetary transactions, users' financial and sensitive data. Using an SSL certificate and data privacy policy will create trust among the users for your website and convert the customers into brand advocates. It is also considered for the different admin roles by which you can control who can create, see, copy, change or delete information.

Depending upon the location of your business, security also refers to compliance with customer data protection rules such as GDPR in Europe.

### **2.3.3. Performance:**

For increasing the traffic on your website, you have to give special attention to the performance in the non-functional requirements documentation. The focus should be on loading the e-commerce store as fast as possible regardless of the number of integrations and traffic on your website. You can set up the speed benchmark, maximum SKUs which you want to add, or any other performance indicator best for your business. Don't consider the 3rd party system delivery time because the developers will not have control over the 3rd party API calls.

### **2.3.4. Maintainability:**

The operational costs for maintenance are the tricky part of planning a business budget. Thriving the website maintenance from the initial development means cutting the time & cost to determine and resolve the faults of the system in the future. Well, it sounds sad but there is no way to avoid issues in the future and you have to look for a website development company that can maintain your website.

### **2.3.5. Scalability:**

Last but not the least, you have to look for a future-proof solution considering the scalability. It will define how the website can grow and increase its features and functionality without impacting the performance of your website. You must be able to add more memory, servers, or disc space for making more transactions on your website. On the server side, while entering new markets you may need to add localization features. Overall, this NFR accounts for painless business expansion and has both hardware and software implications

# **CHAPTER-3**

## **Installation and Instructions**

### **3.1 Installation Steps:**

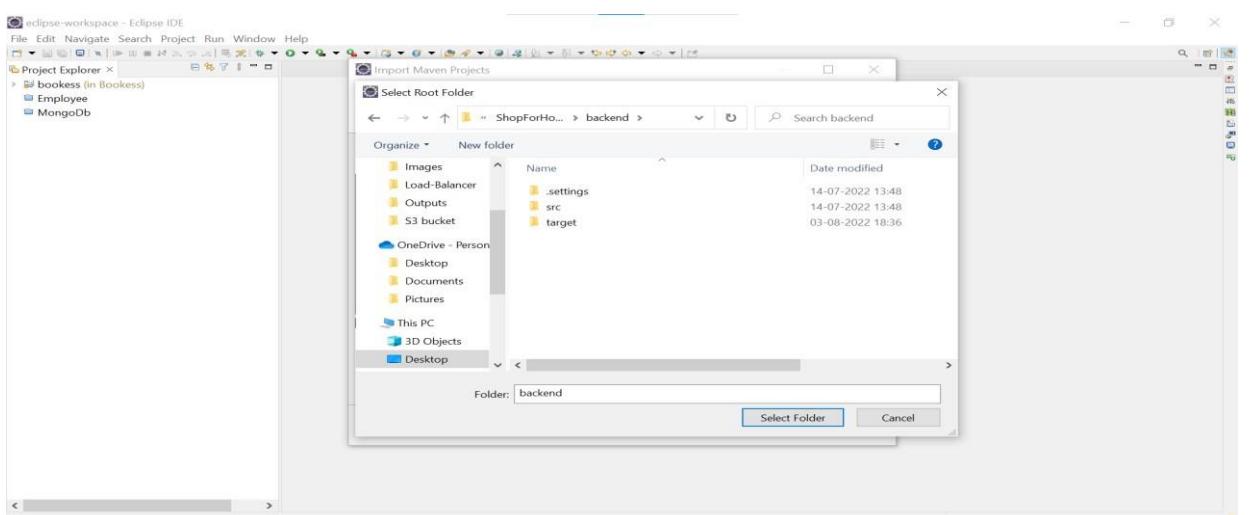
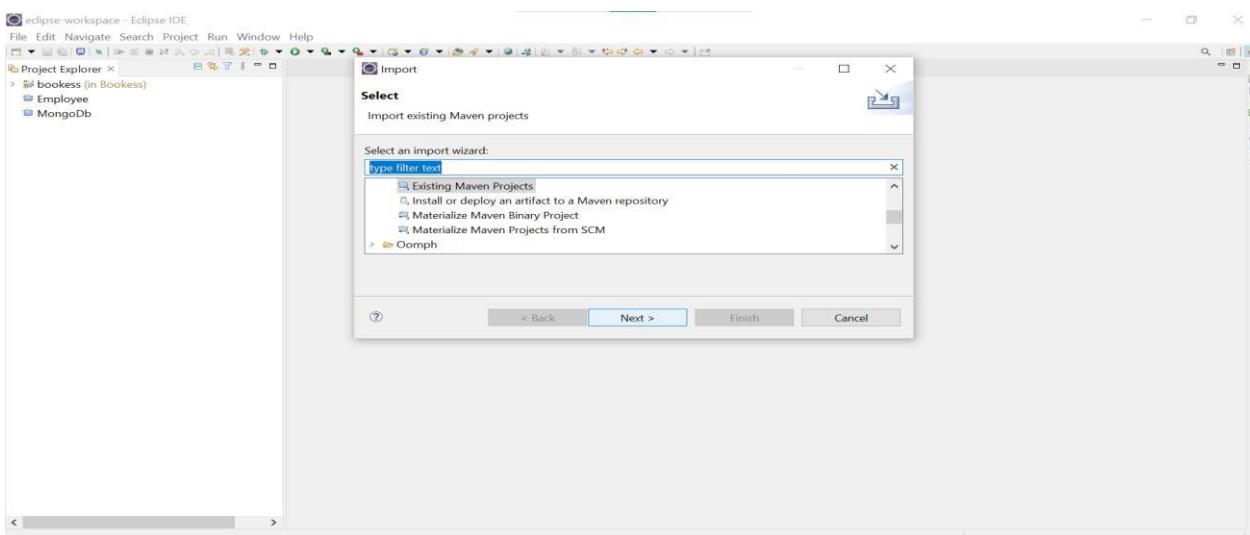
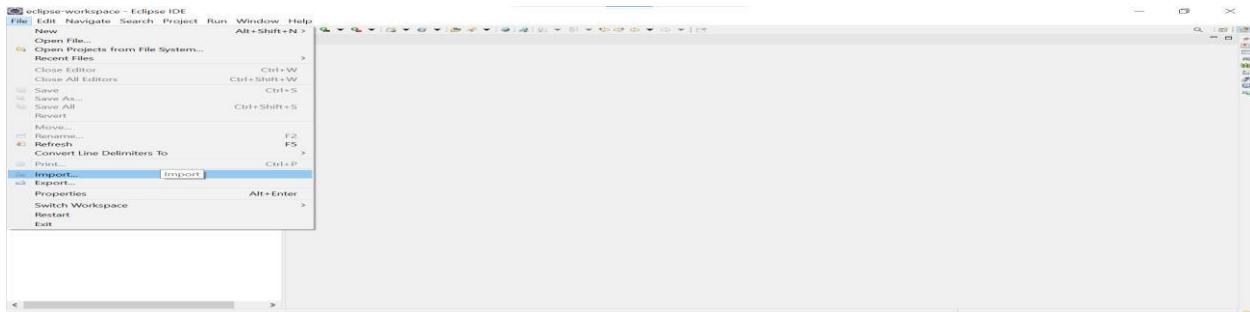
1. Java 11 jdk -> double click -> proceed with default settings
2. MySQL -> double click -> proceed with default settings  
Search -> MySQL workbench after MySQL installation completes
3. Vscode -> double click -> proceed with default settings
4. Eclipse -> extract zip file -> run

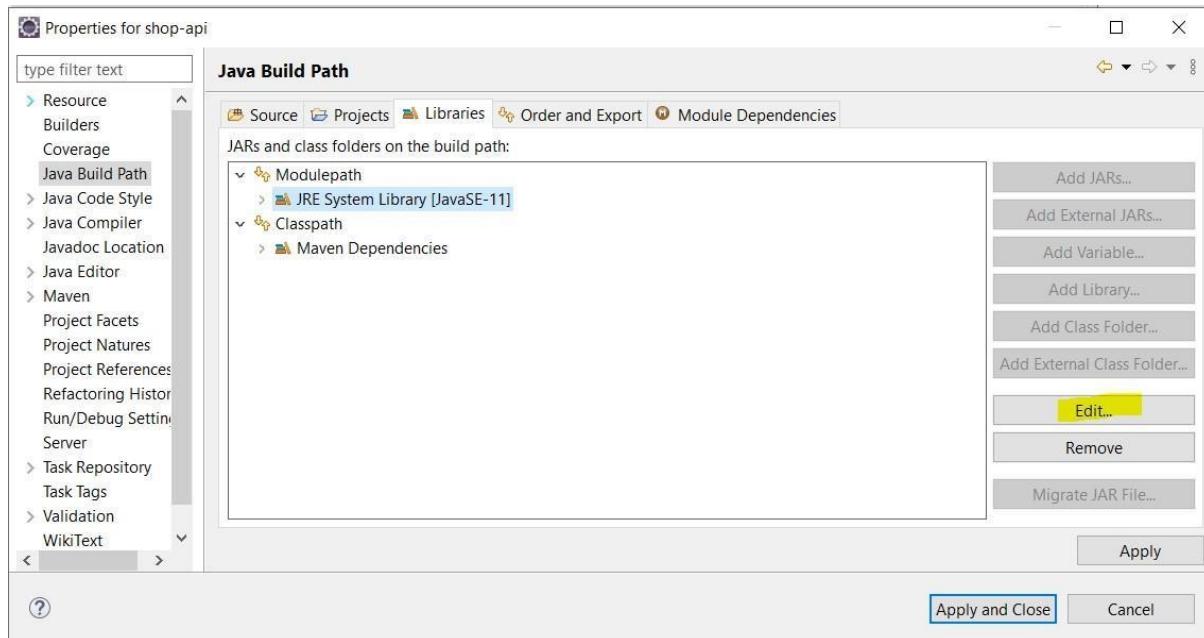
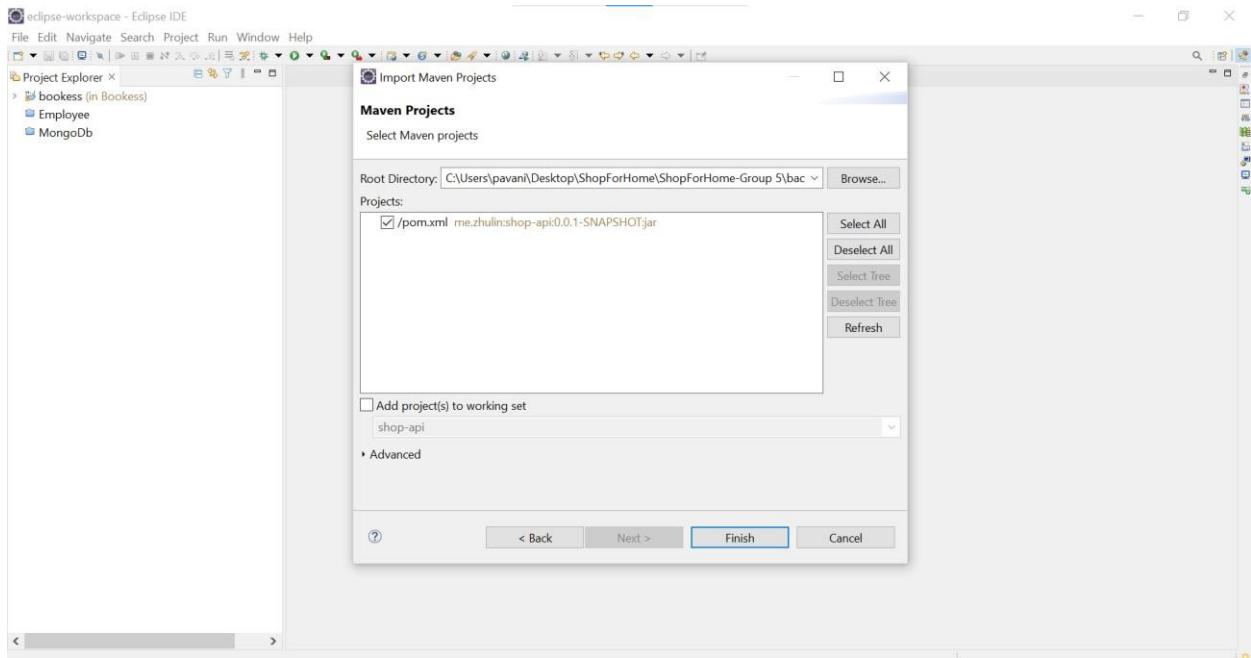
PC > Downloads > capstone project > eclipse			
Name	Date modified	Type	Size
configuration	20-06-2022 09:06	File folder	
dropins	02-12-2021 17:17	File folder	
features	02-12-2021 17:17	File folder	
p2	25-06-2022 07:18	File folder	
plugins	02-12-2021 17:17	File folder	
readme	02-12-2021 17:17	File folder	
.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





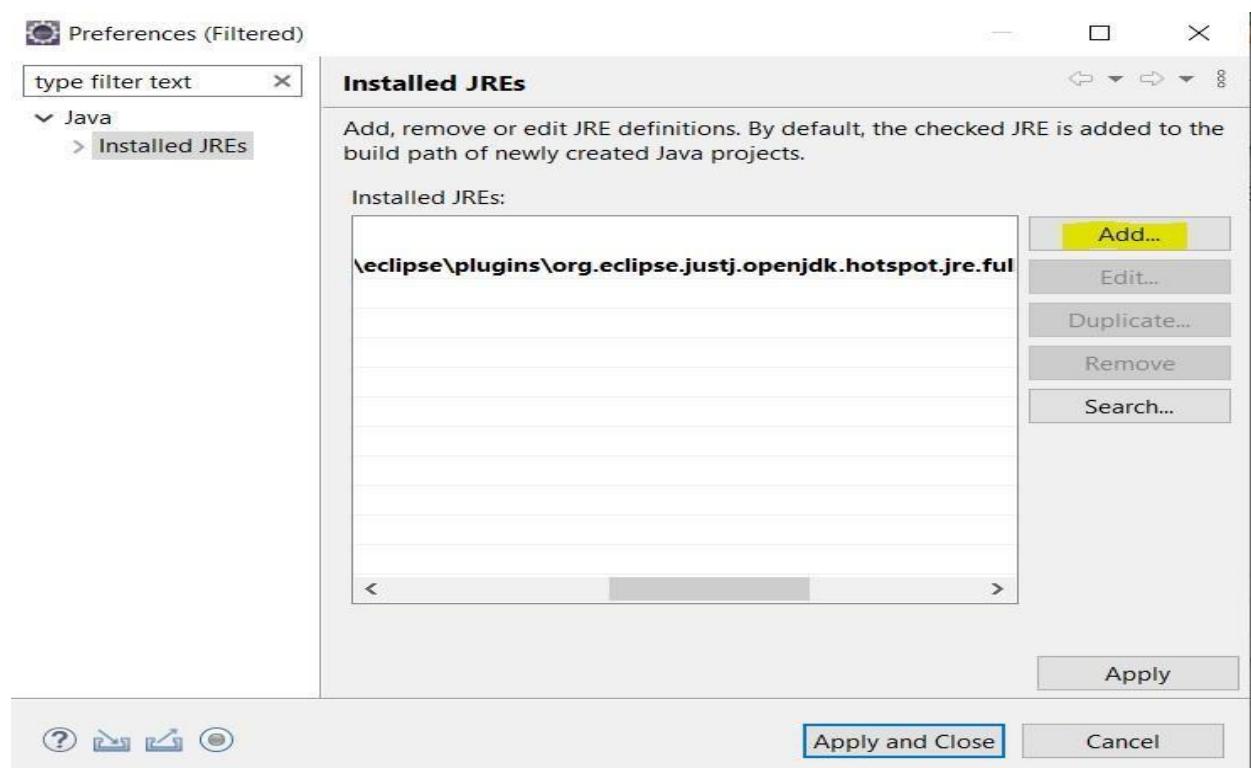
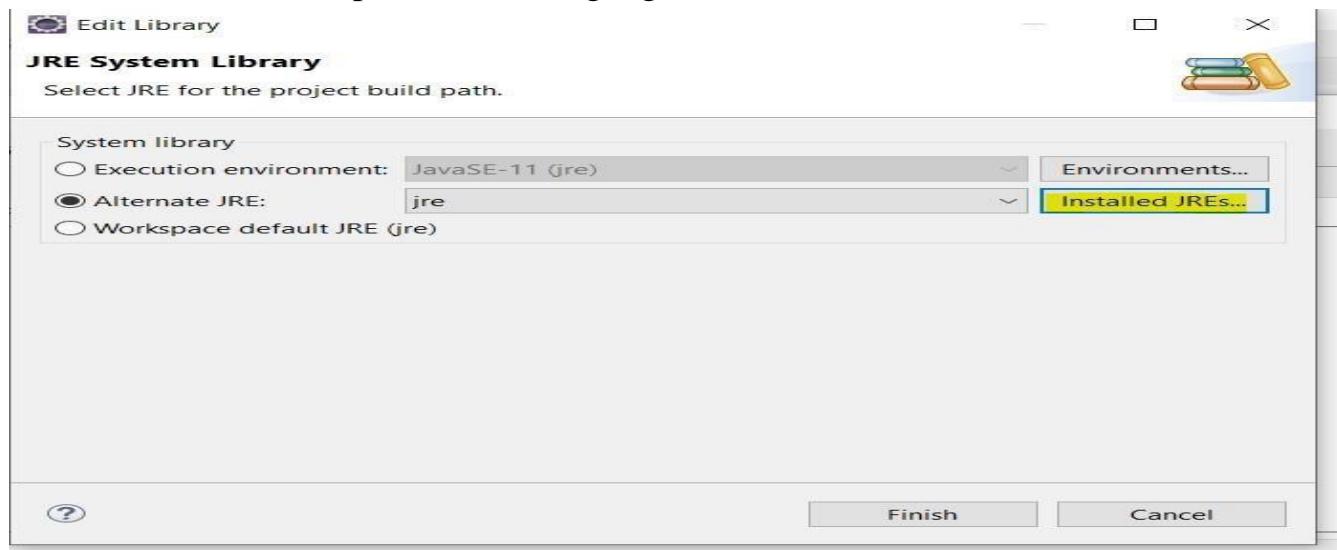
## 3.4 Frontend

From your local FrontEnd code path -> open cmd

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

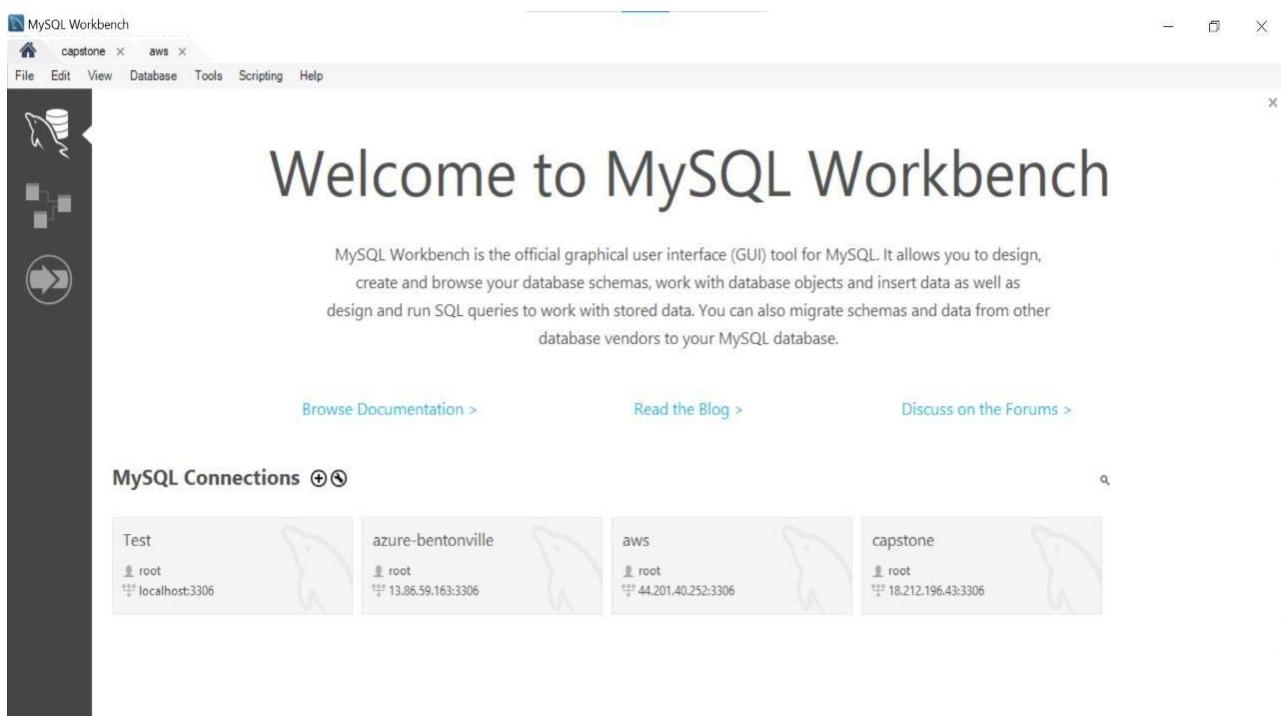
- Run this command -- **code** .
- Run **Npm install** from vs code terminal

- 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 Spring Tool Suite 4 interface. The central area displays the `CartController.java` file:

```

1 package shopforhome.api;
2
3 import org.springframework.beans.factory.annotation.Autowired;
4
5 @CrossOrigin
6 @RestController
7 @RequestMapping("/cart")
8 public class CartController {
9     @Autowired
10    CartService cartService;
11
12    @Autowired
13    UserService userService;
14
15    @Autowired
16    ProductService productService;
17
18    @Autowired
19    ProductInOrderService productInOrderService;
20
21    @Autowired
22    ProductInOrderRepository productInOrderRepository;
23
24    @PostMapping("")
25    public ResponseEntity<Cart> mergeCart(@RequestBody Collection<ProductInOrder> productInOrders, Principal principal) {
26        User user = userService.findOne(principal.getName());
27        try {
28            cartService.mergeLocalCart(productInOrders, user);
29        } catch (Exception e) {
30            return ResponseEntity.badRequest().body("Merge Cart Failed");
31        }
32        return ResponseEntity.ok(cartService.getCart(user));
33    }
34}

```

The right-hand side shows the `Outline` view with a tree structure of the project's classes and methods. Below the code editor is a `Run As` dropdown menu where `2 Java Application` is selected. The bottom status bar shows the date and time as 23-08-2022.

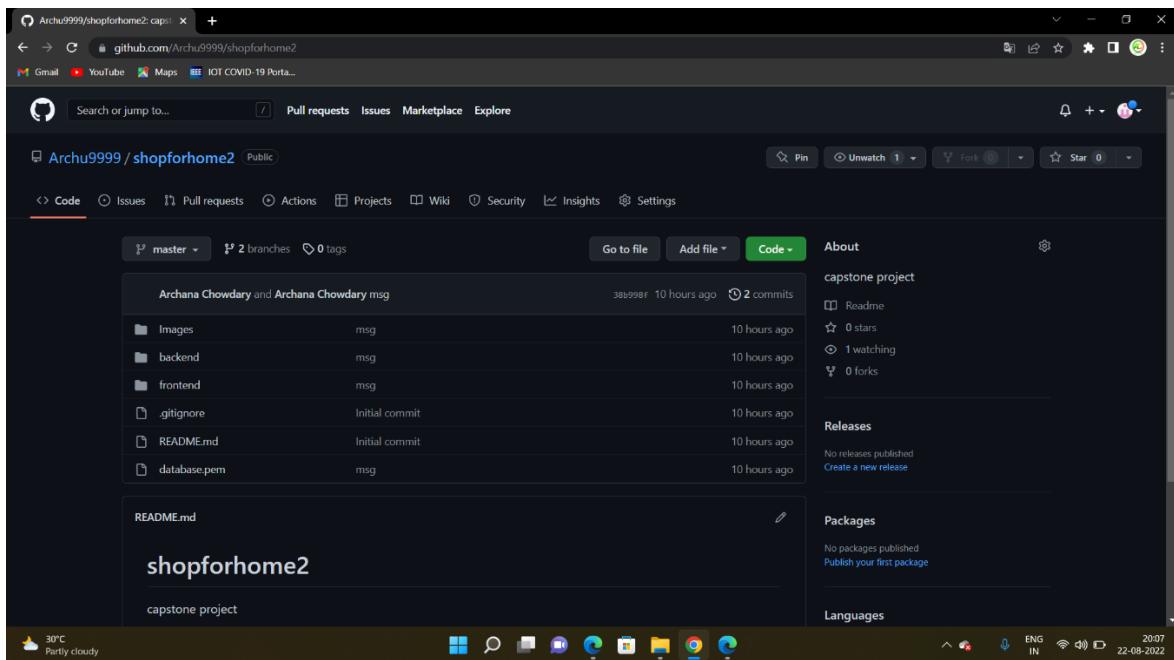
This screenshot shows the same workspace as above, but the `Problems` view is open at the bottom. It displays several Hibernate SQL queries generated by the application:

- Hibernate: select user0\_.id as id1\_4\_, user0\_.active as active2\_4\_, user0\_.address as address3\_4\_, user0\_.email as email4\_4\_, user0\_.name as name5\_4\_ from user user0\_ where user0\_.id=?
- Hibernate: select cart0\_.user\_id as user\_id0\_0\_ from cart cart0\_ where cart0\_.user\_id=?
- Hibernate: select ordermain0\_.order\_id as order\_id1\_2\_, ordermain0\_.buyer\_address as buyer\_ad2\_2\_, ordermain0\_.buyer\_email as buyer\_em3\_2\_ , o
- Hibernate: select products0\_.order\_id as order\_id1\_5\_0\_, products0\_.id as id1\_5\_1\_ , products0\_.cart\_user\_id as car
- Hibernate: select user0\_.id as id1\_6\_ , user0\_.active as active2\_6\_ , user0\_.address as address3\_6\_ , user0\_.email as email4\_6\_ , user0\_.name as name5\_6\_ from user user0\_ where user0\_.id=?
- Hibernate: select ordermain0\_.order\_id as order\_id1\_5\_0\_ , products0\_.id as id1\_5\_1\_ , products0\_.cart\_user\_id as car
- Hibernate: select cart0\_.user\_id as user\_id0\_0\_ from cart cart0\_ where cart0\_.user\_id=?

The bottom status bar shows the date and time as 23-Aug-2022, 11:00:47 am.

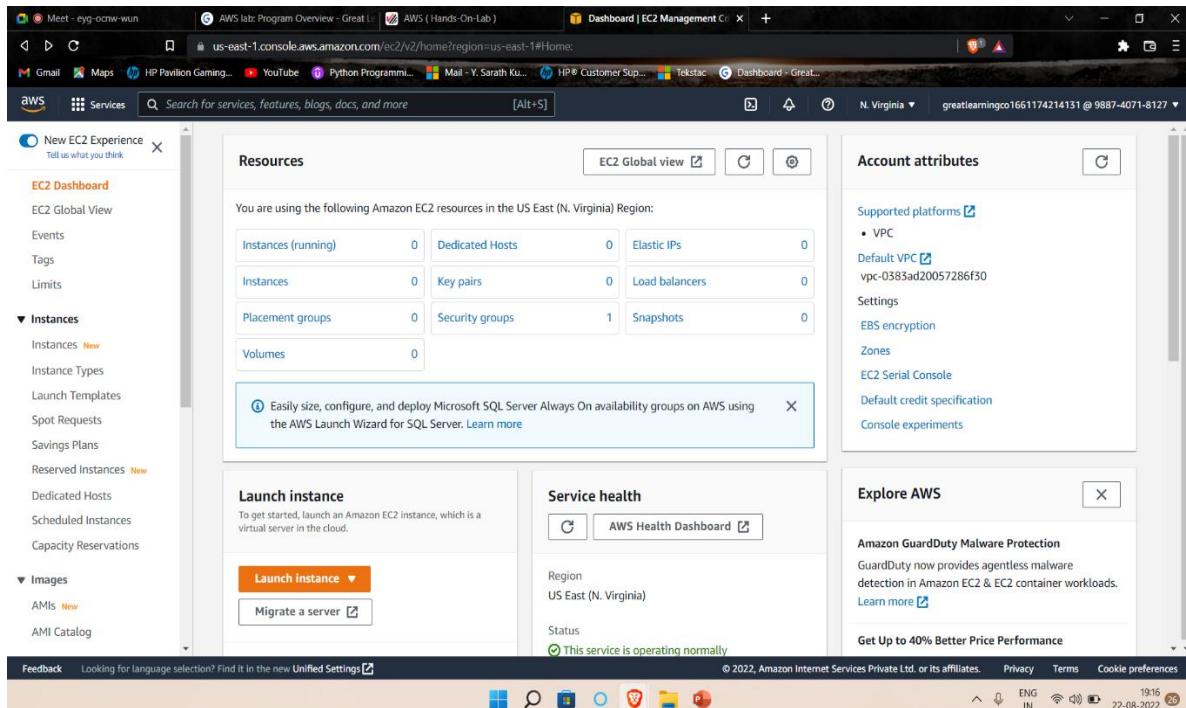
# CHAPTER - 5

## GITHUB REPOSITORY



## CREATION OF EC2 INSTANCES

Click on Launch Instance



## MySQL Instance:

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a sidebar with navigation links like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, and Images (AMIs, Catalog). The main area displays a table titled 'Instances (1/1) Info' with one row for a MySQL instance. The instance details are as follows:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
MySQL	i-06cac4ce012948338	Pending	t2.micro	-	No alarms	us-east-1e	ec2-54-152-55-117.compute-1.amazonaws.com

Below the table, a detailed view for the instance i-06cac4ce012948338 (MySQL) is shown. The 'Details' tab is selected, displaying information such as Public IPv4 address (54.152.55.117), Instance state (Pending), and Private IP DNS name (ip-172-31-50-178.ec2.internal).

## SSH to MySQL Instance

### 1. sudo apt update

```
ubuntu@ip-172-31-20-185:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packages [8628 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-en [5124 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f Metadata [265 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [144 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translation-en [104 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n-f Metadata [9136 B]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2092 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [360 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [15.6 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [1187 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [169 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 c-n-f Metadata [584 B]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [934 kB]
Get:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [209 kB]
Get:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [21.0 kB]
Get:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [24.4 kB]
Get:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7336 B]
Get:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [588 B]
Get:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [45.6 kB]
Get:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [16.3 kB]
Get:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [1420 B]
Get:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [24.0 kB]
Get:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [16.0 kB]
Get:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [860 B]
Get:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-security/main amd64 Packages [1637 kB]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [116 B]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [278 kB]
```

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### 2.sudo apt install mysql-server -y

```

34.229.167.180 (ubuntu)
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
2: 34.229.167.180 (ubuntu) x 4: 3.86.60.19 (ubuntu)
ubuntu@ip-172-31-20-185:~$ sudo apt install mysql-server -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libcgifast-perl libcgipm-perl libencode-locale-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
  liblwp-mediatypes-perl libmecab2 libtmeate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-utils mysql-client-8.0
  mysql-client-core-8.0 mysql-common mysql-server-8.0 mysql-server-core-8.0
Suggested packages:
  libdata-dump-perl libipc-sharedcache-perl libwww-perl mailx tinyca
The following NEW packages will be installed:
  libcgifast-perl libcgipm-perl libencode-locale-perl libevent-core-2.1-7 libevent-pthreads-2.1-7 libfcgi-perl
  libhtml-parser-perl libhtml-tagset-perl libhtml-template-perl libhttp-date-perl libhttp-message-perl libio-html-perl
  liblwp-mediatypes-perl libmecab2 libtmeate-perl liburi-perl mecab-ipadic mecab-ipadic-utf8 mecab-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 50 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.com/ubuntu focal/main amd64 mysql-common all 5.8+1.0.5ubuntu2 [7496 B]
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-core-8.0 amd64 8.0.30-0ubuntu0.20.0
4.2 [4521 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-client-8.0 amd64 8.0.30-0ubuntu0.20.04.2 [22.0 kB]
Get:4 http://us-east-1.ec2.archive.ubuntu.com/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.com/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.com/ubuntu focal/main amd64 libmecab2 amd64 0.996-10build1 [233 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server-8.0 amd64 8.0.30-0ubuntu0.20.0
4.2 [18.6 MB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 mysql-server-8.0 amd64 8.0.30-0ubuntu0.20.04.2 [1292 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 libhtml-tagset-perl all 3.20-4 [12.5 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 liburi-perl all 1.76-2 [77.5 kB]

```

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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

The screenshot shows a terminal window titled '34.229.167.180 (ubuntu)' running on MobaXterm. The user is connected to a MySQL monitor on port 3306. The session output is as follows:

```

ubuntu@ip-172-31-20-185:~$ sudo mysql
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.30-0ubuntu0.20.04.2 (Ubuntu)

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Oracle is a registered trademark of Oracle Corporation and/or its
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 (0.02 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-172-31-20-185:~$ sed "s/bind-address/#bind-address/" /etc/mysql/mysql.conf.d/mysqld.cnf > mysqld.cnf
ubuntu@ip-172-31-20-185:~$ sudo mv mysqld.cnf /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-172-31-20-185:~$ cd /etc/mysql/mysql.conf.d/
ubuntu@ip-172-31-20-185:/etc/mysql/mysql.conf.d$ vi mysqld.cnf
ubuntu@ip-172-31-20-185:/etc/mysql/mysql.conf.d$ cd ~
ubuntu@ip-172-31-20-185:~$ sudo /etc/init.d/mysql restart
Restarting mysql (via systemctl): mysql.service.
ubuntu@ip-172-31-20-185:~$ sudo /etc/init.d/mysql restart
Restarting mysql (via systemctl): mysql.service.

```

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## Creation Of Application-Backend Instance

Assign the public IP of MySQL Instance in application.properties

The screenshot shows a GitHub repository page for 'Archu9999/shopforhome2'. The 'application.properties' file is being edited. The code in the file is as follows:

```

spring.datasource.url=jdbc:mysql://54.152.55.117:3326/ecommerce?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
server.port=8080
spring.datasource.username=root
spring.datasource.password=Archana@29
spring.datasource.driver-class-name=com.mysql.jdbc.Driver
spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL57Dialect
#spring.jpa.hibernate.ddl-auto=create-drop
spring.jpa.hibernate.ddl-auto=update
spring.jpa.show-sql=true
#server.servlet.contextPath=/api
#spring.security.user.name=user
#spring.security.user.password=password
#Spring Mail Config
spring.mail.host = smtp.gmail.com
spring.mail.port = 25
spring.mail.username = archana@gmail.com
spring.mail.password = ghsyzjshympruz
spring.mail.properties.mail.smtp.auth = true
spring.mail.properties.mail.smtp.starttls.enable = true
#spring.queries.roles-query-select email, role from users where email=?

```

## Open EC2 Dashboard and Launch the Backend Instance.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances>. The page displays the 'Launch an instance' wizard. The 'Name and tags' section has 'backend' entered in the Name field. The 'Application and OS Images (Amazon Machine Image)' section shows a search bar and a 'Quick Start' tab selected. On the right, the 'Summary' panel shows 1 instance, an Amazon Linux 2 AMI, t2.micro instance type, a new security group, and 1 volume (8 GiB). A 'Launch instance' button is visible at the bottom right of the summary panel.

This screenshot shows the same EC2 Management Console interface, but with a different AMI selected in the 'Application and OS Images (Amazon Machine Image)' section. The 'Quick Start' tab is still selected. The 'Summary' panel now lists Canonical, Ubuntu 20.04 LTS as the AMI. The rest of the configuration (instance type, security group, storage) remains the same, with the 'Launch instance' button still present.

## User Data

```
#! /bin/bash
```

```
sudo apt install openjdk-11-jre-headless -y
```

```
sudo apt update sudo apt install maven -y
```

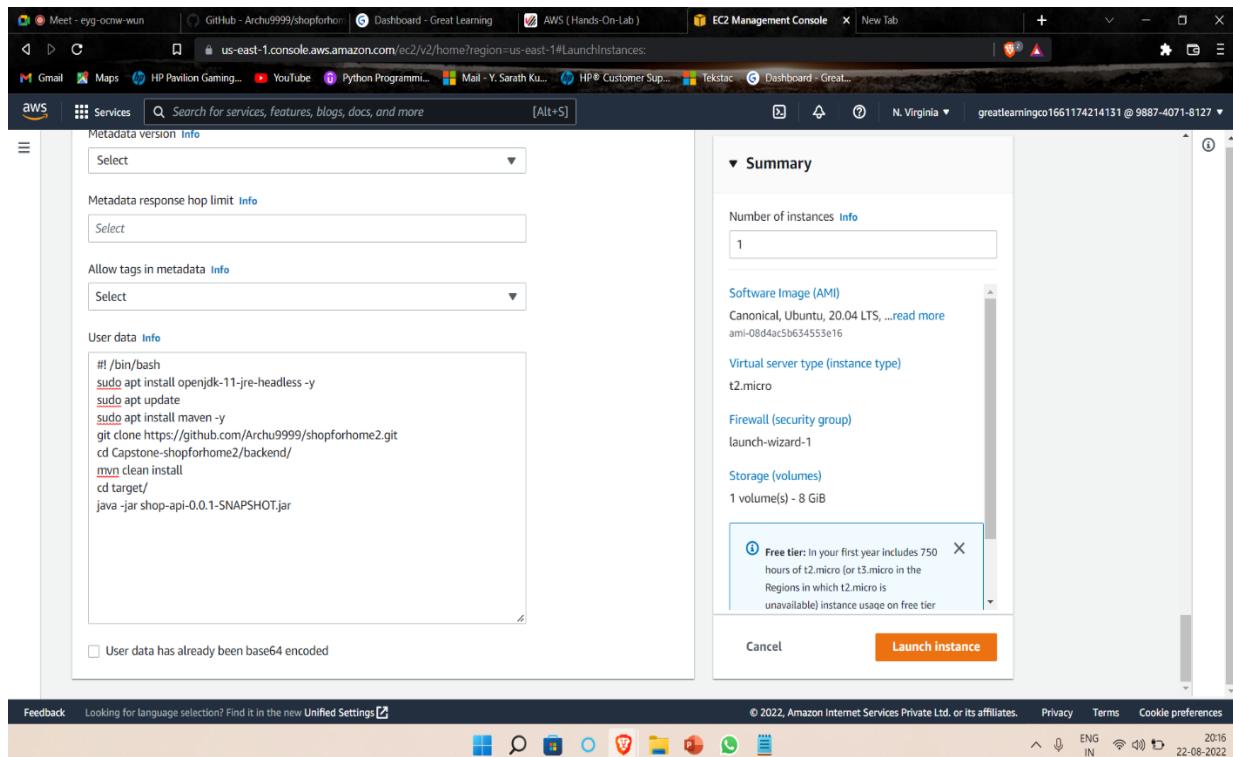
```
git clone https://github.com/Archu9999/shopfprhome2.git
```

```
cd Capstone-shopfprhome2/backend/
```

```
mvn clean install
```

```
cd target/
```

```
java -jar shop-api-0.0.1-SNAPSHOT.jar
```



The screenshot shows the AWS EC2 Management console. On the left, a sidebar lists various services like EC2 Dashboard, Instances, and Images. The main area displays a table of instances. One instance, named 'backend' with Instance ID i-0b81e83d1096380cc, is selected and shown in a detailed view on the right. The instance status is 'Pending'. The detailed view includes tabs for Details, Security, Networking, Storage, Status checks, Monitoring, and Tags. Under the Details tab, the instance summary shows the instance ID, public IPv4 address (54.242.115.81), private IPv4 address (172.31.34.183), and public IPv4 DNS name (ec2-54-242-115-81.compute-1.amazonaws.com). The status bar at the bottom indicates the browser is waiting for us-east-1.console.aws.amazon.com.

Successfully created Backend Instance.

This screenshot is identical to the one above, showing the AWS EC2 Management console with the 'backend' instance still in a 'Pending' state. The detailed view on the right shows the same instance summary information: instance ID i-0b81e83d1096380cc, public IPv4 address 54.242.115.81, private IPv4 address 172.31.34.183, and public IPv4 DNS name ec2-54-242-115-81.compute-1.amazonaws.com. The status bar at the bottom indicates the browser is waiting for us-east-1.console.aws.amazon.com.

After running the backend instance, tables are created in the database ecommerce. Now inserting data into the database tables.

```

use ecommerce;
INSERT INTO `product_category` (`category_id`, `category_name`, `category_type`, `create_time`, `update_time`)
VALUES ('1001', 'Shop Living Room', 0, '2022-03-09 23:03:26', '2022-03-10 00:15:27'),
       ('1002', 'Shop Bed Room', 1, '2022-03-10 00:26:05', '2022-03-10 00:26:05'),
       ('1003', 'Shop Dining Room', 2, '2022-03-10 00:15:02', '2022-03-10 00:15:21'),
       ('1004', 'Shop Study Room', 3, '2022-03-10 01:01:09', '2022-03-10 01:01:09'),
       ('1005', 'Home Electronics', 4, '2022-03-10 00:26:05', '2022-03-10 00:26:05');

INSERT INTO `product_info` (`product_id`, `category_type`, `create_time`, `product_description`, `product_name`, `product_status`, `product_stock`, `product_update_time`)
VALUES ('SLR01', 0, '2022-03-10 10:37:39', 'Cherish each moment in comfort', 'https://www.ikea.com/global/assets/SLR01.jpg', 1, 200, '2022-03-10 10:37:39'),
       ('SLR02', 0, '2022-03-10 12:12:48', 'Tables That Do More Than Serve!', 'https://www.ikea.com/in/en/navigation/SLR02.jpg', 1, 200, '2022-03-10 12:12:48'),
       ('SLR03', 0, '2022-03-10 06:51:03', 'Bring the cinema home', 'https://www.ikea.com/in/en/images/products/SLR03.jpg', 1, 200, '2022-03-10 06:51:03'),
       ('SLR04', 0, '2022-03-10 10:35:49', 'Curtains to help you sleep better', 'https://www.ikea.com/in/en/images/products/SLR04.jpg', 1, 200, '2022-03-10 10:35:49'),
       ('SLR05', 0, '2022-03-10 12:09:41', 'Decorative lighting', 'https://www.ikea.com/in/en/images/products/SLR05.jpg', 1, 200, '2022-03-10 12:09:41');

INSERT INTO `users` (`id`, `active`, `address`, `email`, `name`, `password`, `phone`, `role`, `update_time`)
VALUES ('1', 1, '123 Main St', 'john.doe@example.com', 'John Doe', '$2y$10$uXfZQzPQW...', '555-1234', 'admin', '2022-03-10 10:37:39');

```

Output

#	Time	Action	Message	Duration /Fetch
2	16:10:56	INSERT INTO `product_category` (`category_id`, `category_name`, `category_type`, `create_time`, `update_time`)	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0	0.329 sec
3	16:10:56	INSERT INTO `product_info` (`product_id`, `category_type`, `create_time`, `product_des...	18 row(s) affected Records: 18 Duplicates: 0 Warnings: 0	0.484 sec
4	16:10:57	INSERT INTO `users`(`id`, `active`, `address`, `email`, `name`, `password`, `phone`, `role`, `update_time`)	1 row(s) affected	0.312 sec
5	16:10:57			0.212 sec

Copy the public IP of backend instance and paste it in new tab with

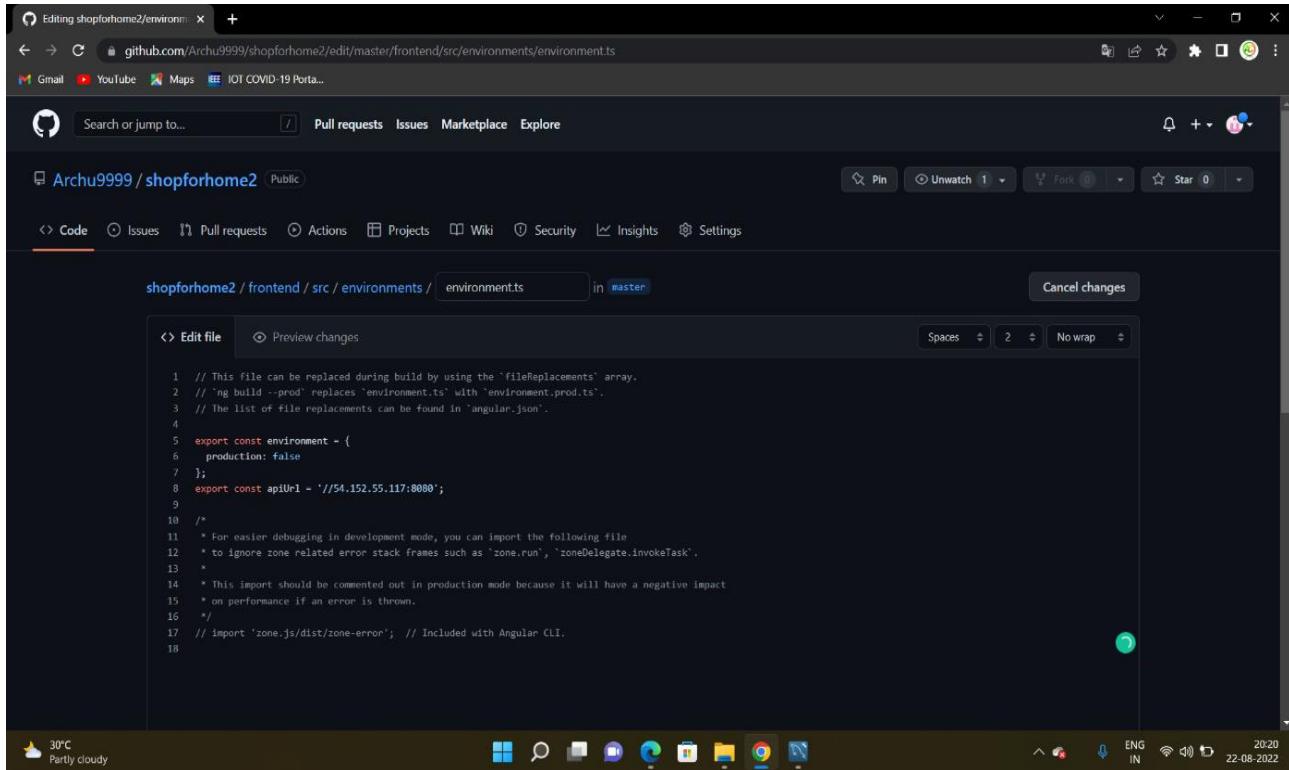
:8080/productall

Then it displays all the products lists.

```
{"productList":[{"productId": "HE01", "productName": "Fan", "productPrice": 1299.00, "productStock": 200, "productDescription": "Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM", "productIcon": "https://images-eu.ssl-images-amazon.com/images/I/511Xl6tJ0yL_AC_.SR360_460.jpg", "productStatus": 1, "categoryType": 4, "createTime": "2022-03-10T10:37:39.000+0000", "updateTime": "2022-03-10T19:42:02.000+0000"}, {"productId": "HE02", "productName": "Fridge", "productPrice": 122500.00, "productStock": 200, "productDescription": "Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257COES", "productIcon": "https://cdn.vox-cdn.com/thumbor/Atvpj5tuIgls5pPrG2-A-MHFs8/0x389:8426x7181/1200x800/Filters:focal(3671x2467:5117x3913)/cdn.vox-cdn.com/uploads/chorus_image/image/62795169/samsung_fridge.0.jpg", "productStatus": 1, "categoryType": 4, "createTime": "2022-03-10T10:37:39.000+0000", "updateTime": "2022-03-10T19:42:02.000+0000"}, {"productId": "HE03", "productName": "Washing machine", "productPrice": 41000.00, "productStock": 200, "productDescription": "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™", "productIcon": "https://www.lgnewsroom.com/wp-content/uploads/2013/09/LG_12KG_WASHING_MACHINE_021.jpg", "productStatus": 1, "categoryType": 4, "createTime": "2022-03-10T10:37:39.000+0000", "updateTime": "2022-03-10T19:42:02.000+0000"}, {"productId": "BD01", "productName": "Bed", "productPrice": 12000.00, "productStock": 108, "productDescription": "Adolph Bed With Side Storage", "productIcon": "https://media-amazon.com/images/I/41tCT+QZpIL.jpg", "productStatus": 1, "categoryType": 4, "createTime": "2022-03-10T10:37:39.000+0000", "updateTime": "2022-07-09T14:36:20.000+0000"}, {"productId": "SB02", "productName": "Mattress", "productPrice": 9999.00, "productStock": 6, "productDescription": "Wakefit Orthopaedic Memory Foam Mattress (78*72*6inch) / (198.1*182.9*15.2cm)", "productIcon": "https://thumbs.dreamstime.com/b/bed-mattress-pad-37693273.jpg", "productStatus": 0, "categoryType": 1, "createTime": "2022-03-10T06:44:25.000+0000", "updateTime": "2022-07-10T13:43:23.000+0000"}, {"productId": "SB03", "productName": "Bed Sheets", "productPrice": 999.00, "productStock": 199, "productDescription": "cotton check silk bedsheet ,6ft x 6ft", "productIcon": "https://5.imimg.com/data5/TU/MN/I2/SELLER-96789932/cotton-check-bedsheet-500x500.png", "productStatus": 0, "categoryType": 1, "createTime": "2022-03-10T10:39:29.000+0000", "updateTime": "2022-03-10T10:39:32.000+0000"}, {"productId": "SDR01", "productName": "Dining table", "productPrice": 899.00, "productStock": 199, "productDescription": "Wooden table 3/4", "productIcon": "https://www.bassettfurniture.com/dining/harvest_tables.jpg", "productStatus": 0, "categoryType": 2, "createTime": "2022-03-10T10:40:35.000+0000", "updateTime": "2022-03-10T10:40:35.000+0000"}, {"productId": "SDR02", "productName": "Table cloth", "productPrice": 560.00, "productStock": 200, "productDescription": "floral printed cloth", "productIcon": "https://5.imimg.com/data5/PV/FB/MY-32572973/dining-table-cloth-500x500.jpg", "productStatus": 0, "categoryType": 2, "createTime": "2022-03-10T10:40:35.000+0000", "updateTime": "2022-03-10T10:40:35.000+0000"}, {"productId": "SDR03", "productName": "Dining table mat", "productPrice": 399.00, "productStock": 57, "productDescription": "2 inches thick mat with hot pot holder", "productIcon": "https://n2.sdlcdn.com/imgs/j/n/x/Sunju-Silicone-Hot-Pot-Holder-SDL849435794-1-e8a72.jpg", "productStatus": 0, "categoryType": 2, "createTime": "2022-03-10T12:15:05.000+0000", "updateTime": "2022-03-10T12:15:10.000+0000"}, {"productId": "SLR01", "productName": "Two-seat sofas", "productPrice": 20000.00, "productStock": 200, "productDescription": "Cherish every moment in comfort", "productIcon": "https://www.ikea.com/global/assets/navigation/images/two-seat-sofas-10668.jpeg?imwidth=500", "productStatus": 1, "categoryType": 0, "createTime": "2022-03-10T10:37:39.000+0000", "updateTime": "2022-03-10T19:42:02.000+0000"}, {"productId": "SLR02", "productName": "Coffee tables", "productPrice": 5000.00, "productStock": 300, "productDescription": "Tables That Do More Than Serve!", "productIcon": "https://www.ikea.com/in/en/navigation/images/coffee-tables-10716.jpeg?imwidth=400", "productStatus": 0, "categoryType": 0, "createTime": "2022-03-10T12:12:46.000+0000", "updateTime": "2022-03-10T12:12:46.000+0000"}, {"productId": "SLR03", "productName": "TV & media storage", "productPrice": 15000.00, "productStock": 100, "productDescription": "Bring the cinema home", "productIcon": "https://www.ikea.com/in/en/images/products/brimnes-tv-storage-combination-black_0464267_pe609346_s5.jpg?fx=xs", "productStatus": 0, "categoryType": 0, "createTime": "2022-03-10T06:51:03.000+0000", "updateTime": "2018-03-10T12:04:13.000+0000"}, {"productId": "SLR04", "productName": "Curtains", "productPrice": 2000.00, "productStock": 194, "productDescription": "Curtains to help you sleep better", "productIcon": "https://www.ikea.com/in/en/images/products/hilja-curtains-1-pair-grey_0889629_pe671128_s5.jpg?fx=xs", "productStatus": 0, "categoryType": 0, "createTime": "2022-03-10T06:51:03.000+0000", "updateTime": "2022-03-10T13:50:11.000+0000"}, {"productId": "SLR05", "productName": "LED lanterns", "productPrice": 10.00, "productStock": 109, "productDescription": "Decorative lighting", "productIcon": "https://www.ikea.com/in/en/images/products/storhaga-led-table-lamp-dimmable-outdoor-black_0763156_pe752472_s5.jpg?fx=xs", "productStatus": 0, "categoryType": 0, "createTime": "2022-03-10T12:09:41.000+0000", "updateTime": "2022-03-10T12:09:41.000+0000"}]
```

# Creation of Application-Frontend Instance

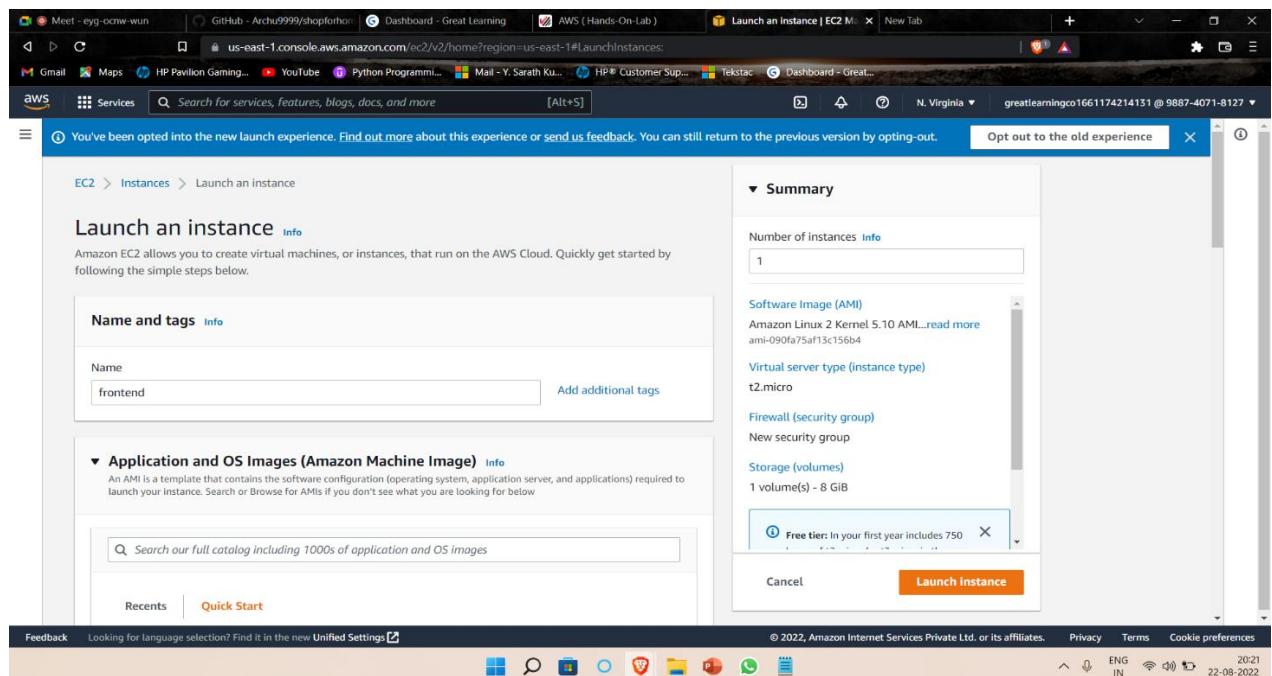
Add public IP of backend instance in environment.ts file.



```
// 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 = '//54.152.55.117:8080';

/*
 * 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'.
 *
 * This import should be commented out in production mode because it will have a negative impact
 * on performance if an error is thrown.
 */
// import 'zone.js/dist/zone-error'; // Included with Angular CLI.

```



You've been opted into the new launch experience. Find out more about this experience or send us feedback. You can still return to the previous version by opting-out. Opt out to the old experience

**Summary**

Number of instances: 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AML... [read more](#)

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GB

Free tier: In your first year includes 750

Cancel Launch Instance

The screenshot shows the AWS Lambda console interface. On the left, there's a sidebar with various configuration options like 'Metadata version', 'Metadata response hop limit', 'Allow tags in metadata', and 'User data'. The 'User data' section contains the following shell script:

```
#!/bin/bash
sudo apt install python-software-properties
curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
sudo apt-get install nodejs -y
sudo npm install -g @angular/cli
git clone https://github.com/Archu9999/shopforhome2.git
cd Capstone-shopforhome2/frontend/
sudo npm install
sudo ng serve --host 0.0.0.0
```

A tooltip for the 'Free tier' is displayed, stating: 'Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier'.

## User Data

```
#!/bin/bash
sudo apt install python-software-properties
curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
sudo apt-get install nodejs -y
sudo npm install -g @angular/cli
git clone https://github.com/Archu9999/shopforhome2.git
cd Capstone-shopforhome2/frontend/
sudo npm install
sudo ng serve --host 0.0.0.0
```

Instances (1/3) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
MySQL	i-06cac4ce012948338	<span>Running</span>	t2.micro	<span>2/2 checks passed</span>	No alarms	+ us-east-1e	ec2-54-152-55
backend	i-0b81e83d1096380cc	<span>Running</span>	t2.micro	<span>2/2 checks passed</span>	No alarms	+ us-east-1d	ec2-54-242-11
frontend	i-05b81404ccb192125	<span>Running</span>	t2.micro	<span>2/2 checks passed</span>	No alarms	+ us-east-1c	ec2-3-85-129-

Instance: i-05b81404ccb192125 (frontend)

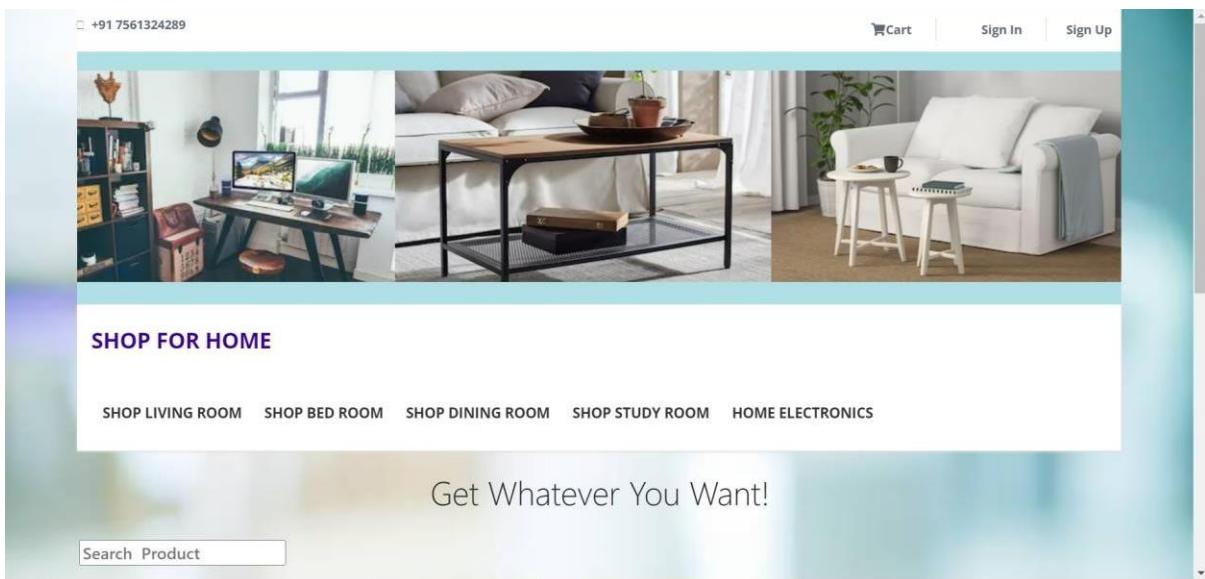
Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

Instance ID i-05b81404ccb192125 (frontend)	Public IPv4 address 3.85.129.186   <a href="#">open address</a>	Private IPv4 addresses 172.31.29.179
IPv6 address -	Instance state <span>Running</span>	Public IPv4 DNS ec2-3-85-129-186.compute-1.amazonaws.com   <a href="#">open address</a>
Hostname type IP name: ip-172-31-29-179.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-29-179.ec2.internal	

Successfully created Frontend Instance.

Copy the public IP of frontend instance and paste it in new tab with localhost:4200. Then our ShopForHome web application will be displayed.



## Created EC2 Instances

The screenshot shows the AWS EC2 Management console. On the left, a sidebar lists navigation options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), and Images. The main area displays a table of three EC2 instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
MySQL	i-05cac4ce012948338	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-54-152-55-119
backend	i-0b81e83d1096380cc	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-54-242-11-119
frontend	i-05b81404ccb192125	Running	t2.micro	2/2 checks passed	No alarms	us-east-1c	ec2-3-85-129-119

A modal window titled "Select an instance" is open at the bottom, showing the same three instances.

## Creation of S3 Buckets

The screenshot shows the AWS S3 bucket creation wizard. The top navigation bar includes tabs for Meet, GitHub, Dashboard - Great Learning, AWS (Hands-On-Lab), Instances | EC2 Management, and S3 bucket. The main content area is titled "Create bucket" with a sub-section "General configuration". It asks for a "Bucket name" (shopforhome-products) and "AWS Region" (US East (N. Virginia) us-east-1). A note says "Copy settings from existing bucket - optional". Below this are sections for "Object Ownership" and "Encryption".

**General configuration**

Bucket name: shopforhome-products  
Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming.

AWS Region: US East (N. Virginia) us-east-1

Copy settings from existing bucket - optional  
Only the bucket settings in the following configuration are copied.  
Choose bucket

**Object Ownership**

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

ACLs disabled (recommended)  
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

ACLs enabled  
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Get hands-on guidance on how to get started with S3 Intelligent-Tiering and experience automatic storage cost savings. [View tutorial](#)

Amazon S3 > Buckets > shopforhome-products

shopforhome-products [Info](#)

Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (0)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Actions](#) [Create folder](#) [Upload](#)

Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				
<a href="#">Upload</a>				

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

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ENG IN 18:53 22-08-2022 26

Meet - eyg-ocnw-wun AWS lab: Program Overview - Great AWS (Hands-On-Lab) s3.console.aws.amazon.com/s3/upload/shopforhome-products?region=us-east-1&prefix=products/

Gmail Maps HP Pavilion Gaming... YouTube Python Programmi... Mail - V. Sarah Ku... HP Customer Sup... Tekstac Dashboard - Great...

AWS Services [Search for services, features, blogs, docs, and more](#) [Alt+S] Global greatlearningco1661174214131 @ 9887-4071-8127

Amazon S3 > Buckets > shopforhome-products > products/ > Upload

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose Add files, or Add folders.

Files and folders (20 Total, 1.7 MB)

All files and folders in this table will be uploaded.

[Remove](#) [Add files](#) [Add folder](#)

Name	Folder	Type	Size
HE-1.jpg	Images/Images/	image/jpeg	7.9 KB
HE-2.jpg	Images/Images/	image/jpeg	42.7 KB
HE-3.jpg	Images/Images/	image/jpeg	192.8 KB
SBR-1.jpg	Images/Images/	image/jpeg	27.8 KB
SBR-2.jpg	Images/Images/	image/jpeg	54.3 KB
SBR-3.webp	Images/Images/	image/webp	25.6 KB
SBR-4.jpg	Images/Images/	image/jpeg	67.1 KB
SDR-1.webp	Images/Images/	image/webp	70.5 KB
SDR-2.jpg	Images/Images/	image/jpeg	44.5 KB
SDR-3.jpg	Images/Images/	image/jpeg	107.2 KB

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

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ENG IN 18:56 22-08-2022 26

# RESULTS

Get Whatever You Want!

Search Product

**Two-seat sofas**  
Description: Cherish each moment in comfort  
Price: \$20,000.00  
Stock: 200  
Unavailable

**Coffee tables**  
Description: Tables That Do More Than Serve!  
Price: \$5,000.00  
Stock: 300  
Get It!

**TV & media storage**  
Description: Bring the cinema home  
Price: \$15,000.00  
Stock: 100  
Get It!

## Home Page

+91 7561324289

Cart | Sign In | Sign Up

SHOP FOR HOME

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

Get Whatever You Want!

Search Product

# Product Categories

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

## Shop Living Room

Search Product

**Two-seat sofas**  
Description: Cherish each moment in comfort  
Price: \$20,000.00  
Stock: 300

**Coffee tables**  
Description: Tables That Do More Than Serve!  
Price: \$5,000.00  
Stock: 300

**TV & media storage**  
Description: Bring the cinema home  
Price: \$15,000.00  
Stock: 100

## Shop Bed Room

Search Product

**Bed**  
Description: Adolph Bed With Side Storage  
Price: \$12,000.00  
Stock: 108

**Mattress**  
Description: Wakefit Orthopaedic Memory Foam Mattress (78\*72\*6inch) / (198.1\*182.9\*15.2cm)  
Price: \$9,999.00  
Stock: 6

**Bed Sheets**  
Description: cotton check silk bedsheets ,6ft x 6ft  
Price: \$999.00  
Stock: 199

## Shop Dining Room

Search Product



Dining table

Description: Wooden table 3/4  
Price: \$899.00  
Stock: 199

Get It!



Table cloth

Description: floral printed cloth  
Price: \$566.00  
Stock: 200

Get It!



Dining table mat

Description: 2 inches thick mat with hot pot holder  
Price: \$399.00  
Stock: 57

Get It!

## Shop Study Room

Search Product



Laptop

Description: Acer Aspire 5 Thin & Light Laptop  
Intel Core i5 11th Gen (Windows 11 Home/MS Office /8GB/512GB SSD) A514-54 with 35.5cm (14") Full HD Display with Backlit Keyboard/1.45 kgs  
Price: \$52,999.00  
Stock: 22

Get It!



Study Table

Description: Twain Free Standing Engineered Wood Study Table In Cherry Melamine Finish  
Price: \$799.00  
Stock: 200

Unavailable



Study Chair

Description: Linsay Ergonomic Chair  
Price: \$20,099.00  
Stock: 200

Unavailable

## Home Electronics

Search Product



Fan

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



Fridge

Description: Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES

Price: \$122,500.00



Washing machine

Description: Big Capacity(12kg) Energy Efficiency (A+++~40%), 6 Motion Direct Drive, Inverter Direct Drive, (Less noise andvibration, 10-Year

Warranty)

## Search Functionality

Get Whatever You Want!

tables



Coffee tables

Description: Tables That Do More Than Serve!

Price: \$5,000.00

Stock: 300

Get It!

## Add to Cart

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

SHOPPING CART

IMAGE	DESCRIPTION	REF NO	QUANTITY	UNIT PRICE	TOTAL
	Coffee tables	SLR02	1	₹5,000.00	₹5,000.00

COUPON APPLIED :

TOTAL: ₹5,000.00

SUB TOTAL	₹5,000.00
SHIPPING COST	₹20.00
TOTAL	₹5,020.00

[CONTINUE SHOPPING](#) [CHECKOUT](#)

## User Sign Up

ShopForHome

localhost:4200/register

SHOP FOR HOME

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

Sign Up

Email address	<input type="text" value="Group3@gmail.com"/>
Name	<input type="text" value="Group3"/>
Password	<input type="password" value="*****"/>
Phone	<input type="text" value="9877966800"/>
Address	<input type="text" value="manali"/>

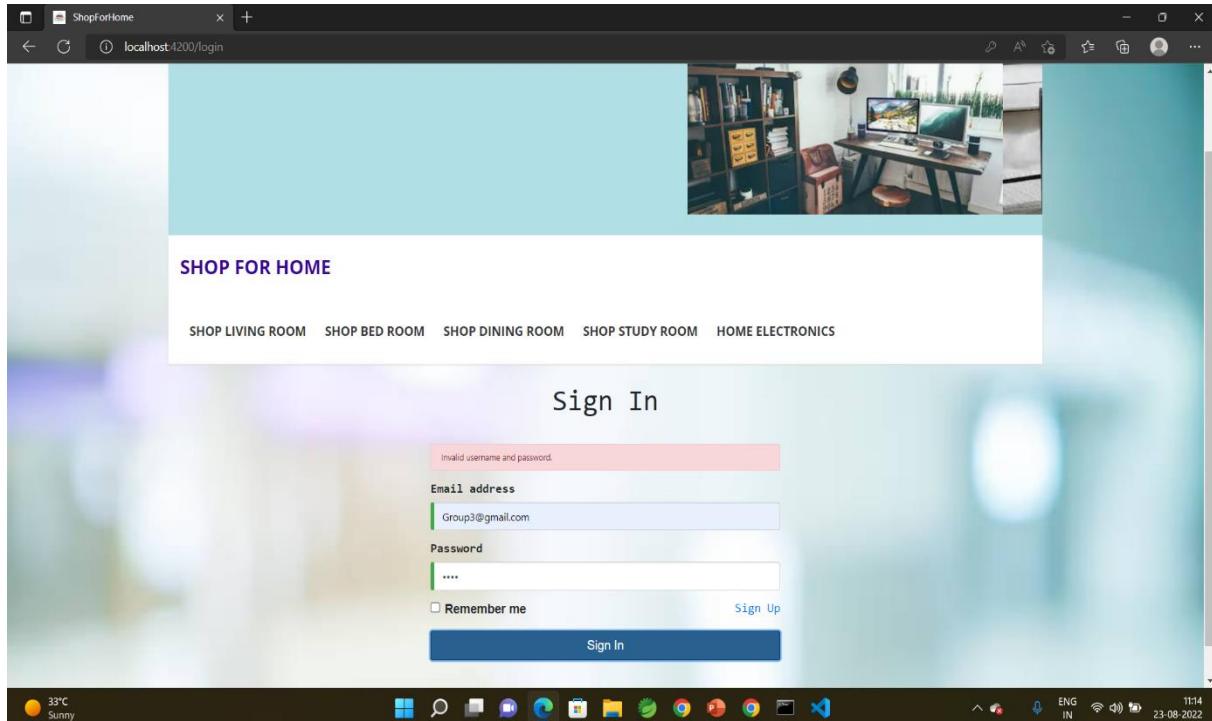
[Sign Up](#)

33°C Sunny

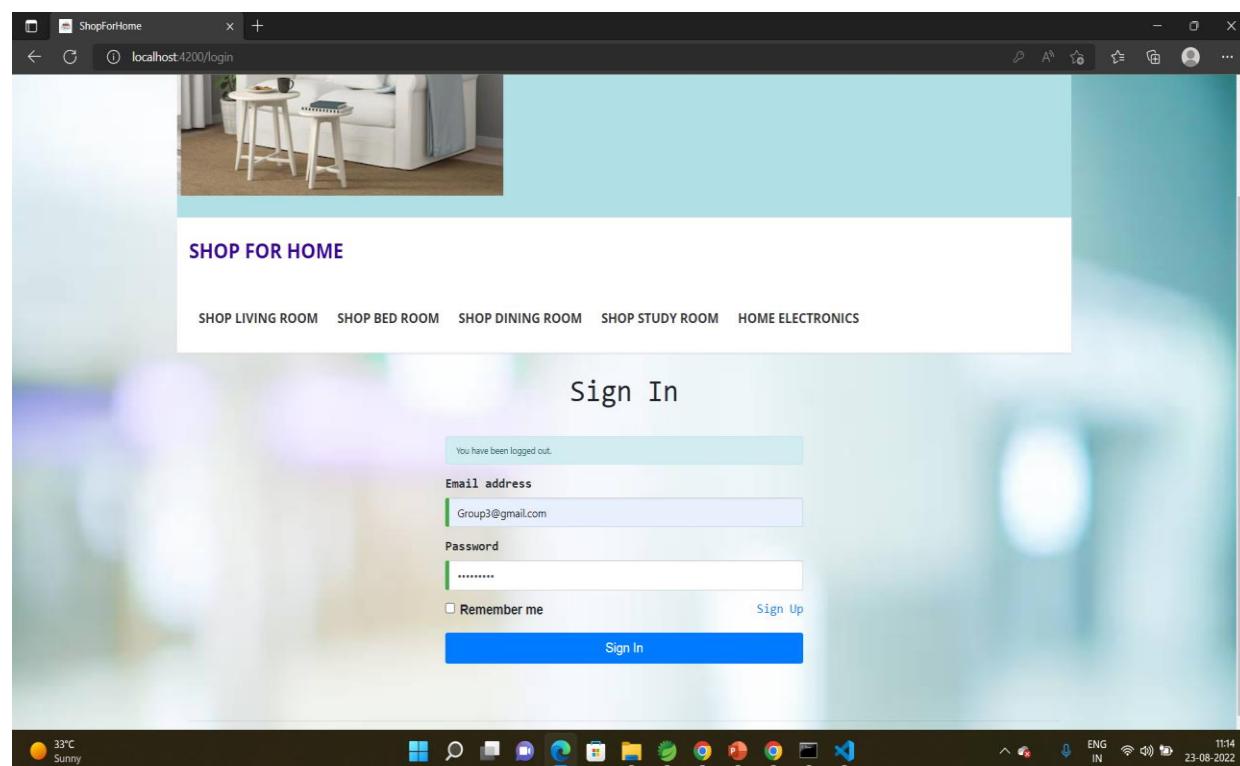
11:13

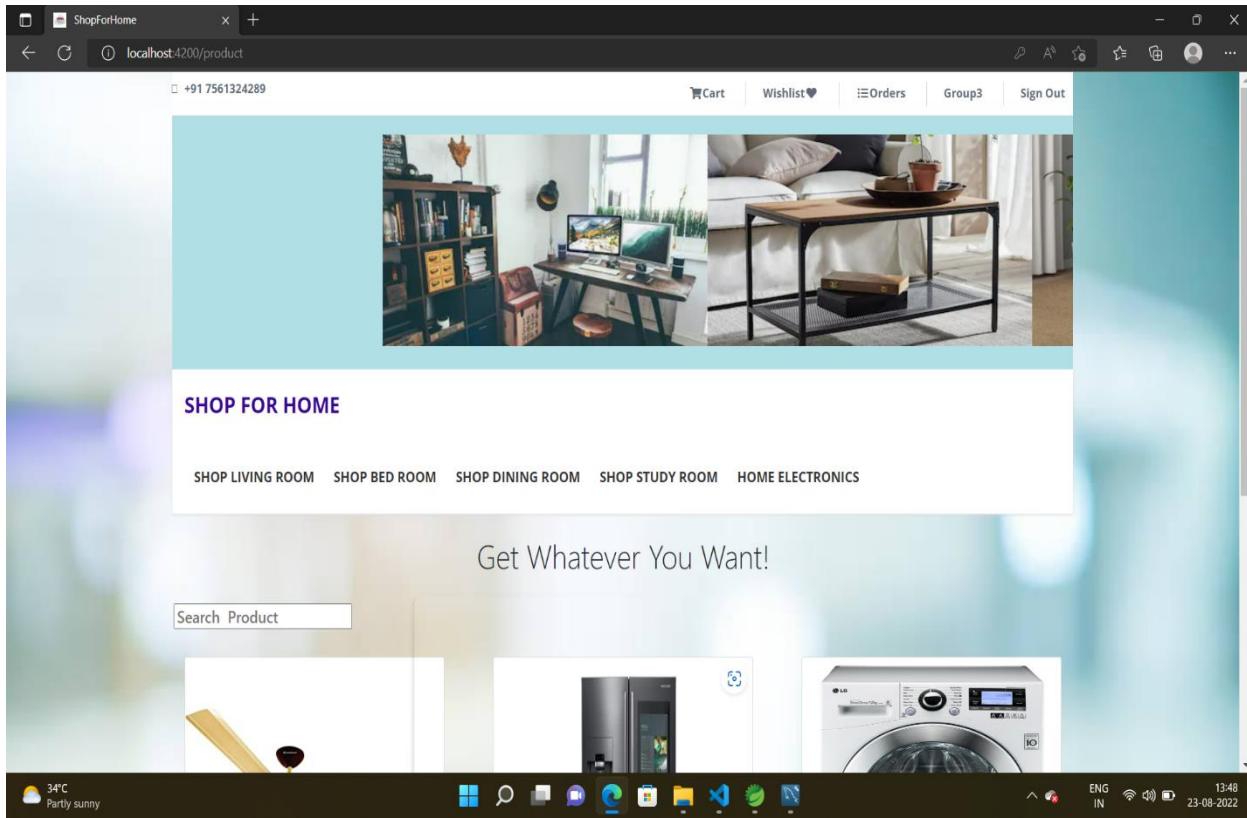
ENG IN 23-08-2022

## Invalid Credentials

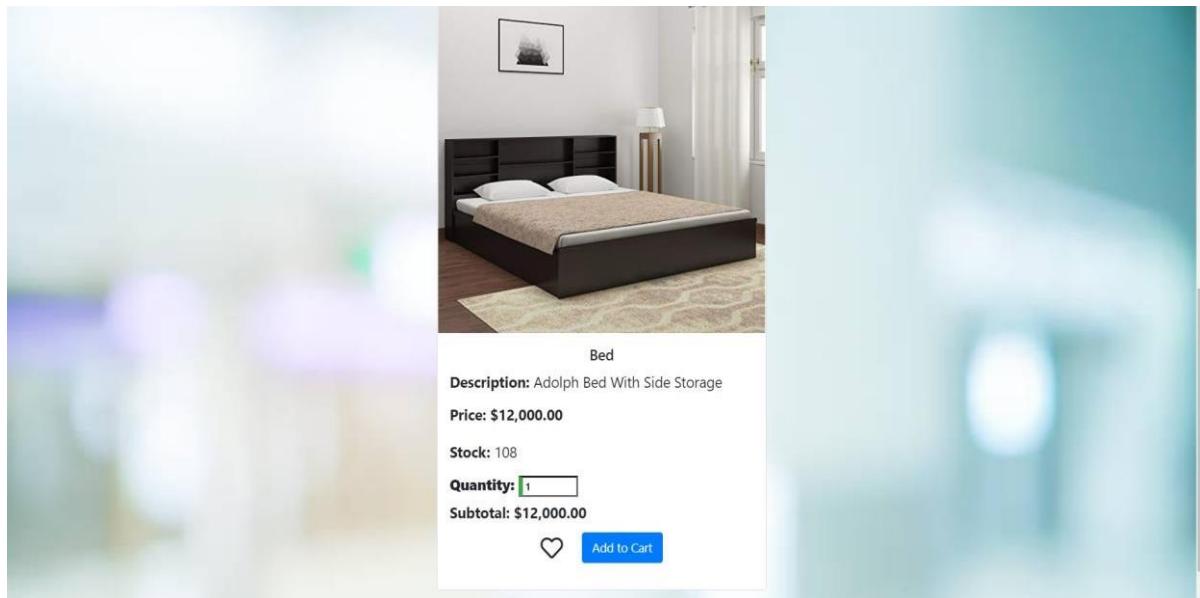


## Valid Credentials





## Quantity Increase or decrease



**Bed**

**Description:** Adolph Bed With Side Storage

**Price:** \$12,000.00

**Stock:** 108

**Quantity:**

**Subtotal:** \$36,000.00

[Add to Cart](#)

## Wishlist

**LED lanterns**

**Description:** Decorative lighting

**Price:** \$10.00

**Stock:** 109

**Quantity:**

**Subtotal:** \$10.00

[Add to Cart](#)

**SHOP FOR HOME**

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

**My Wishlist**

Photo	ID	Name	Price	Action
	SLR05	LED lanterns	\$10.00	<a href="#">Remove</a>

## View Order Details

**SHOP FOR HOME**

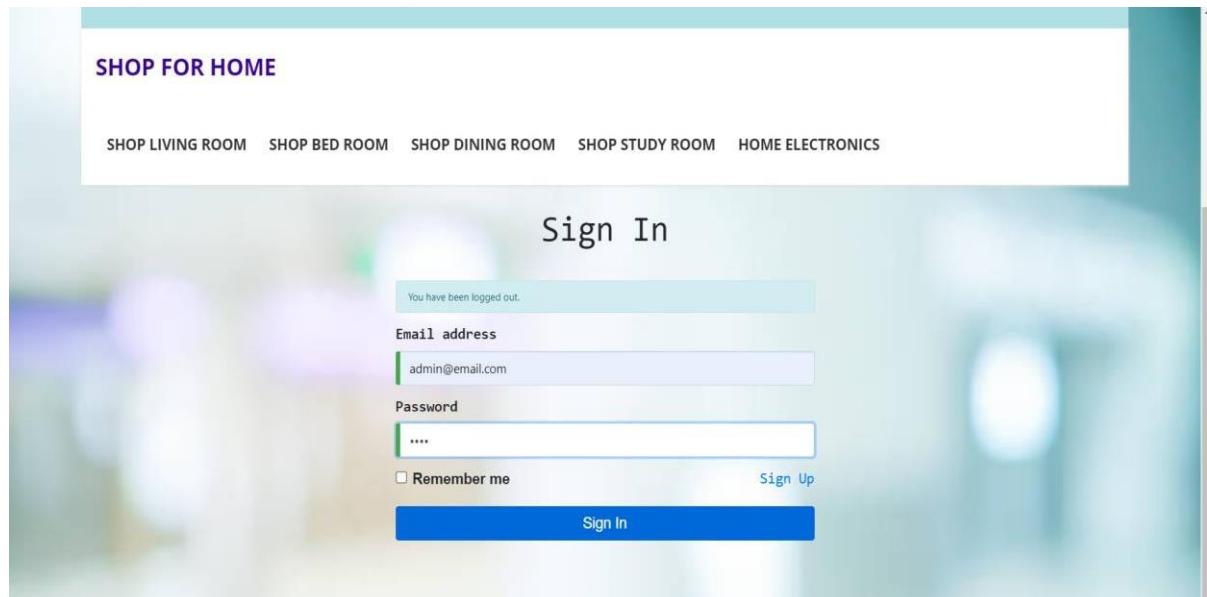
SHOP LIVING ROOM SHOP BED ROOM SHOP DINING ROOM SHOP STUDY ROOM HOME ELECTRONICS

**Order Detail**

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

Total: \$5,000.00

# Admin Login



The screenshot shows the Admin Dashboard. At the top, there are links for +91 7561324289, Discount, Users, Stocks, Orders, Admin, and Sign Out. Below these are three images of home furniture: a dark wooden desk setup, a black metal and wood coffee table, and a white sofa with a small white side table. A 'SHOP FOR HOME' section follows, containing a 'Products' heading and a file upload interface with a 'Choose File' button (No file chosen), an 'Upload' button, and a download icon.

## Edit Admin Profile

The screenshot shows a web browser window titled "ShopForHome" at "localhost:4200/profile". The page displays a collage of three images related to home decor. Below the images is a "SHOP FOR HOME" button. The main content area is titled "Edit Profiles" and contains a form with the following fields:

- Email address: admin@email.com
- Name: Admin-G3
- Password: (redacted)
- Phone: 9924493556
- Address: 62-1-2 Vizag

A blue "Update" button is located at the bottom of the form.

The screenshot shows a web browser window titled "ShopForHome" at "localhost:4200/seller/product". The top navigation bar includes links for "Discount", "Users", "Stocks", "Orders", "Admin-G3", and "Sign Out". The main content area features a collage of three images. Below the images is a "SHOP FOR HOME" button. The next section is titled "Products" and includes a file upload input field with the placeholder "Choose File | No file chosen" and a "Upload" button. To the right of the upload field is a download icon. A table titled "Table #01" is displayed, with columns labeled "Photo", "Code", "Name", "Type", "Description", "Price", and "Stock". The table has one row currently visible. At the bottom of the page is a Windows taskbar showing various application icons and system status.

## Products List

A screenshot of a web browser window titled "ShopForHome" displaying a table of products. The table has columns for Photo, Code, Name, Type, Description, Price, and Stock. The browser's address bar shows "localhost:4200/seller/product". The system tray at the bottom indicates it's 33°C and sunny, with other icons like battery level and network status.

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	196
	HE02	Fridge	Home Electronics	Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES	\$12,500.00	100
	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	107
	SBR02	Mattress	Shop Bed	Wakefit Orthopaedic Memory	\$9,999.00	10

## Edit Product

A screenshot of a "Edit Product" form. The form fields include:

- Code: HE01
- Photo Link: [https://images-eu.ssl-images-amazon.com/images/I/511Xl6tJyL.\\_AC\\_SR360](https://images-eu.ssl-images-amazon.com/images/I/511Xl6tJyL._AC_SR360)
- Name: Fan
- Category: Shop Living Room
- Description: Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM
- Price: 999
- Stock: 200
- Status: Available

A blue "Submit" button is at the bottom right of the form.

## Updated Product

Table #01

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 andvibration, 10-Year MotorWarranty, 22-Year VDE Certification) TrueSteam™ Smart	\$41,000.00	200	Unavailable

## Coupons page



SHOP FOR HOME

Coupons

Search: Enter Some Text To Search!

Enter coupon code

Add Coupon

Couponcode	Action
	Previous
	Next

## Add Coupons



SHOP FOR HOME

### Coupons

Search

Couponcode	Action
ShopForHome50	<button>Delete</button>
<a href="#">Add Coupon</a>	
sales400	<button>Delete</button>
ShopForHome50	<button>Delete</button>
welcome	<button>Delete</button>

## Delete Coupons



SHOP FOR HOME

### Coupons

Search

ShopForHome50

Couponcode	Action
<a href="#">Add Coupon</a>	
sales400	<button>Delete</button>
ShopForHome50	<button>Delete</button>

Previous 1 Next

## Remove User

SHOP FOR HOME

Users

Email	Name	Role	Action
archana@gmail.com	archana	ROLE_CUSTOMER	<button>Remove User</button>
pranjali@gmail.com	pranjali	ROLE_CUSTOMER	<button>Remove User</button>
sarath@gmail.com	sarath	ROLE_CUSTOMER	<button>Remove User</button>
bhargavi@gmail.com	bhargavi	ROLE_CUSTOMER	<button>Remove User</button>
swapnil@gmail.com	swapnil	ROLE_CUSTOMER	<button>Remove User</button>
kalambe@gmail.com	kalambe	ROLE_CUSTOMER	<button>Remove User</button>
mahesh@gmail.com	mahesh	ROLE_CUSTOMER	<button>Remove User</button>
kalpan@gmail.com	kalpan	ROLE_CUSTOMER	<button>Remove User</button>
praveen@gmail.com	praveen	ROLE_CUSTOMER	<button>Remove User</button>
Group3@gmail.com	Group3	ROLE_CUSTOMER	<button>Remove User</button>

Search

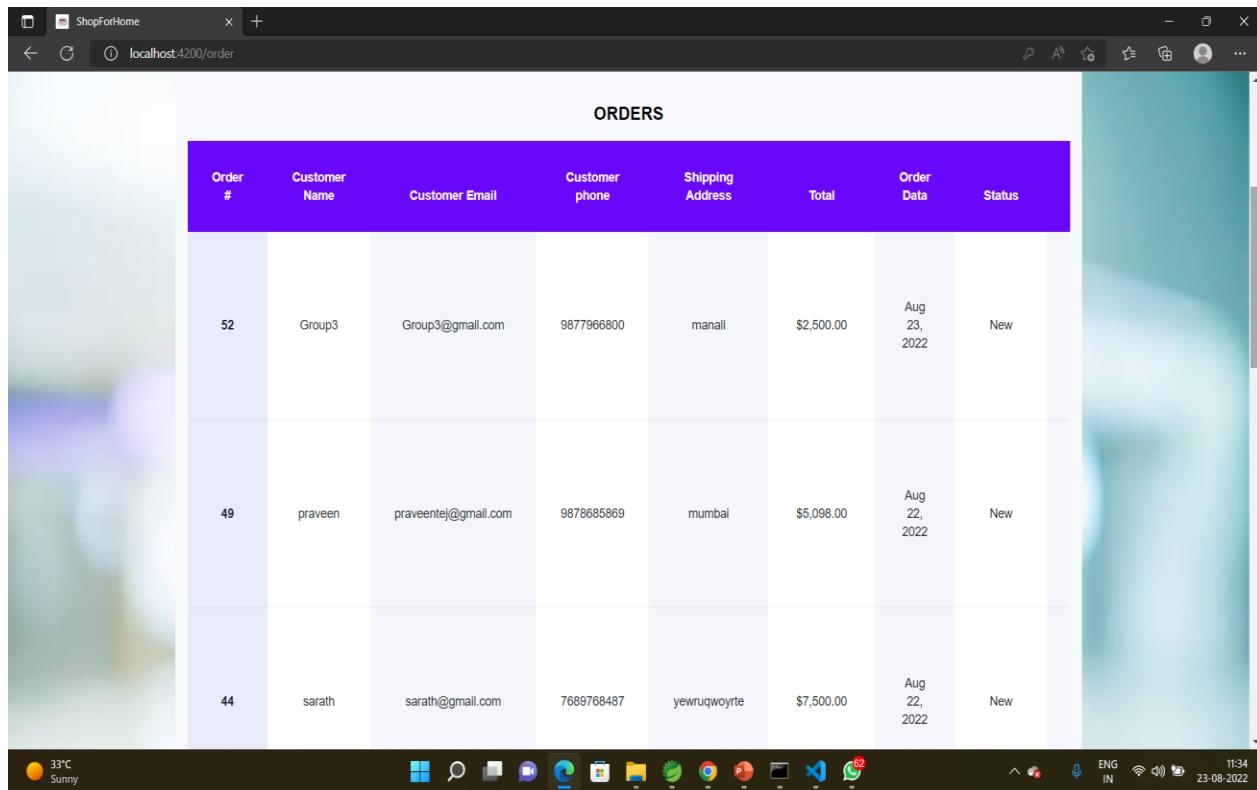
Previous 1 2 Next

33°C Sunny ENG IN 11:31 23-08-2022

## Stock Report

Fridge	Home Electronics	Samsungs new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES	\$122,500.00	200	Unavailable	<a href="#">Edit</a>	<button>email</button>
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	Unavailable	<a href="#">Edit</a>	<button>email</button>
Bed	Shop Bed Room	Adolph Bed With Side Storage	\$12,000.00	108	Available	<a href="#">Edit</a>	<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	<a href="#">Edit</a>	<button>email</button>

## Finish Order

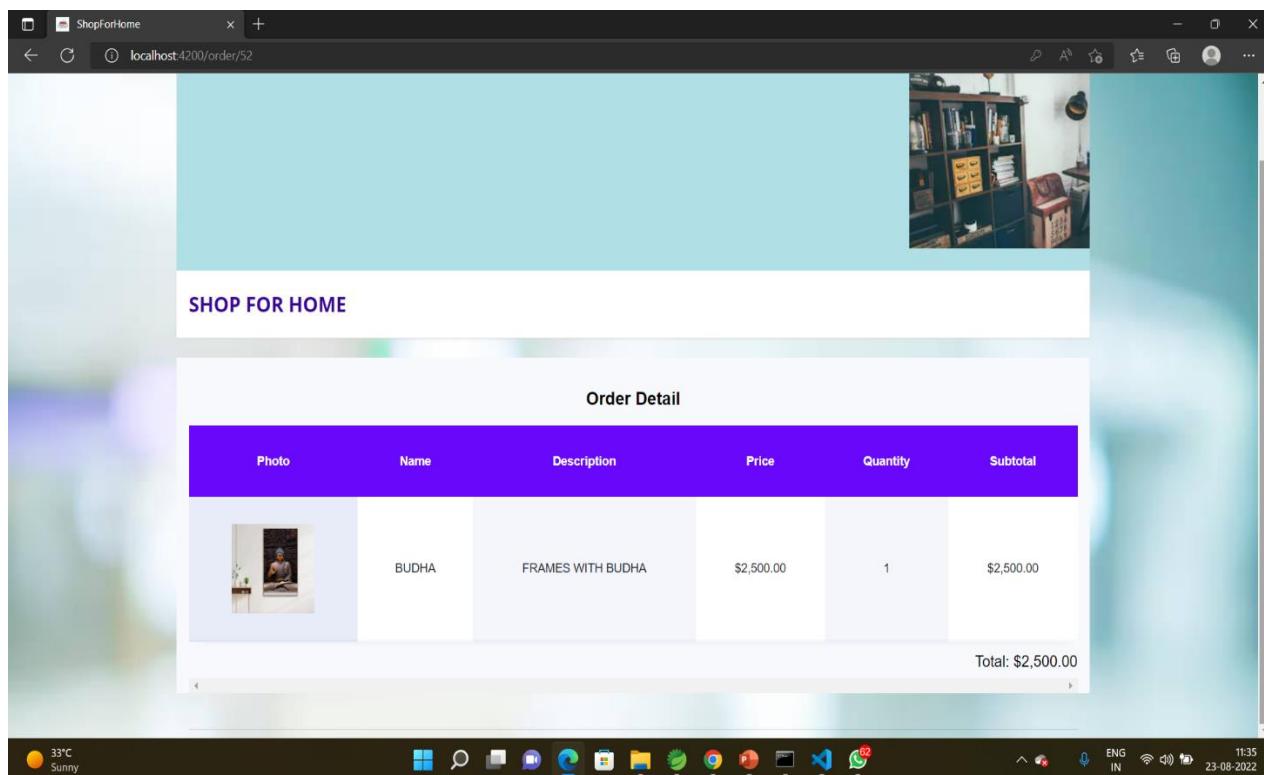


The screenshot shows a web browser window titled "ShopForHome" with the URL "localhost:4200/order". The page displays a table titled "ORDERS" with the following data:

Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Date	Status
52	Group3	Group3@gmail.com	9877966800	manali	\$2,500.00	Aug 23, 2022	New
49	praveen	praveentej@gmail.com	9876685869	mumbai	\$5,098.00	Aug 22, 2022	New
44	sarath	sarath@gmail.com	7689768487	yewruqwoytre	\$7,500.00	Aug 22, 2022	New

The browser's status bar at the bottom shows the weather as "33°C Sunny", the date and time as "23-08-2022 11:34", and system icons.

## View order details



The screenshot shows a web browser window titled "ShopForHome" with the URL "localhost:4200/order/52". The page displays the "Order Detail" for Order #52, which includes the following information:

Photo	Name	Description	Price	Quantity	Subtotal
	BUDHA	FRAMES WITH BUDHA	\$2,500.00	1	\$2,500.00

A total amount of "Total: \$2,500.00" is displayed at the bottom of the table. The browser's status bar at the bottom shows the weather as "33°C Sunny", the date and time as "23-08-2022 11:35", and system icons.

## 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 household items like decorating things and many other.
- We need 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

<https://www.eclipse.org/downloads/packages/installer>

<https://aws.amazon.com/>

<https://git-scm.com/downloads>

<https://dev.mysql.com/downloads/workbench/>

<https://mobaxterm.mobatek.net/download-home-edition.html>

<https://www.puttygen.com/>

<https://www.google.com/search?q=great+learning+olympus&oq=great+learning+&aqs=chrome.2.69i57j0i131i433i512l2j0i433i512j0i512j69i65j69i60l2.6693j0j7&sourceid=chrome&ie=UTF-8>

<https://docs.google.com/document/d/14FG9MenUdYwV4vwELMAnF5mBn9aUfvZc1HpMdtLADjE/edit>