



A project report on

SHOPFORHOME

Submitted in partial fulfillment of the requirements for the Velocity
Training of Wipro

JAVA & AWS C3 GROUP-6

By

Gorle Sirisha
Ganesh Telagamsetti
Rafiya Shaik
Nagasai Varaprasad Chikatla
Palleda Vijay Kumar

Under the guidance of

MR. PRAVEEN TEJ D S

Great Learning

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ABSTRACT

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing websites 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 an e-commerce toy store where products home décor items like sofas, chairs, mirrors, etc. can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with online shopping for toys.

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order.

ACKNOWLEDGEMENTS

We are profoundly grateful to **MR. PRAVEEN TEJ D S** expert guidance and encouragement throughout the project. We would like to extend our sincere thanks to our institution for providing us with this opportunity. We are highly indebted to our guide for his guidance and constant supervision as well as for providing necessary information regarding the project and also for his support in completing the project. The work is a team effort minus which the completion of this project was not possible.

Gorle Sirisha
Ganesh Telagamsetti
Rafiya Shaik
Nagasai Varaprasad Chikatla
Palleda Vijay Kumar

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1.0 INTRODUCTION:

ShopForHome is for shopping the home decor stuff. Due to Covid 19 all the offline shopping stopped. So, the store wants to move to the cloud platforms and wants their own web application. The overall idea behind this project is to allow users to buy home decor products online.

The application aims to provide a shopping system for users where the user can sign in, sign up and search all the home decor items available in the application. The user can add favorite items to the Wishlist and can add items to the cart by clicking on the get it button available.

In this way ShopforHome app enables users to purchase home decor items like chairs, mirrors, clocks, sofas, etc. with a single click.

Admin, on the other hand, can login, log out, and register into the application. Along with this admin will be able to upload the products in bulk amounts.

2.0 PROJECT OBJECTIVE:

ShopForHome is a popular Store in the market for shopping home decor stuff. Due to Covid 19, all offline shopping stopped. So, the store wants to move to the cloud platforms and wants its own web application.

3.0 STUDY OF THE SYSTEM:

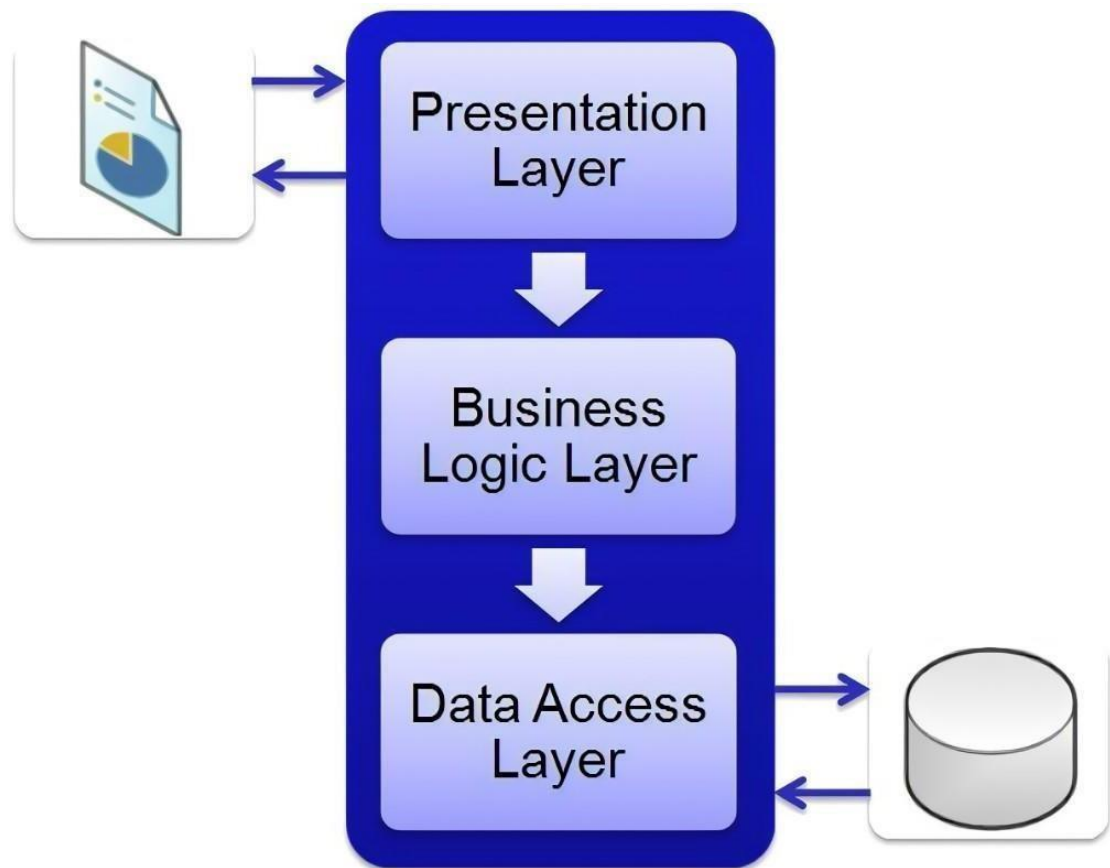
The major objective of this ShopForHome application was to provide a platform for users to buy home décor products from the website. The application consists of two types of users –

- **ADMIN** – A admin can log in to the application using a username and password. On successful login, the user will be redirected to the admin dashboard where the user will see an overall view of the application which includes all products and a list of products to shop for. Admin is able to log in, Logout, and Register into the application. Admin is able to perform CRUD on Users. Admin is able to perform CRUD on the products. Admin is able to get bulk upload option to upload a csv for product details. Admin is able to get the stocks. Admin is able to mail if any stock is less than 10. Admin is able to get the sales report of a specific duration. Admin is able to set the discount coupons for a specific set of users.

- **USER** – Users can register themselves on the platform by signup from the registration page. For registration, the user will need to provide the username, email address, password, phone number, and address. The user is able to log in, Logout, and Register into the application. User is able to see the products in different categories. The user is able to sort the products. The user is able to add the products to the shopping cart. The user is able to increase or decrease the quantity added to the cart. The user is able to add “n” number of products in the cart. The user is able to get the Wishlist option where I can add those products which I want but don’t want to order now. Users can get different discount coupons.

4.0 Project Detail:

1. Attach the database in your "MYSQL".
2. Run the application on Microsoft Visual Studio as web site.
3. Locate the database.



4.1 project detail

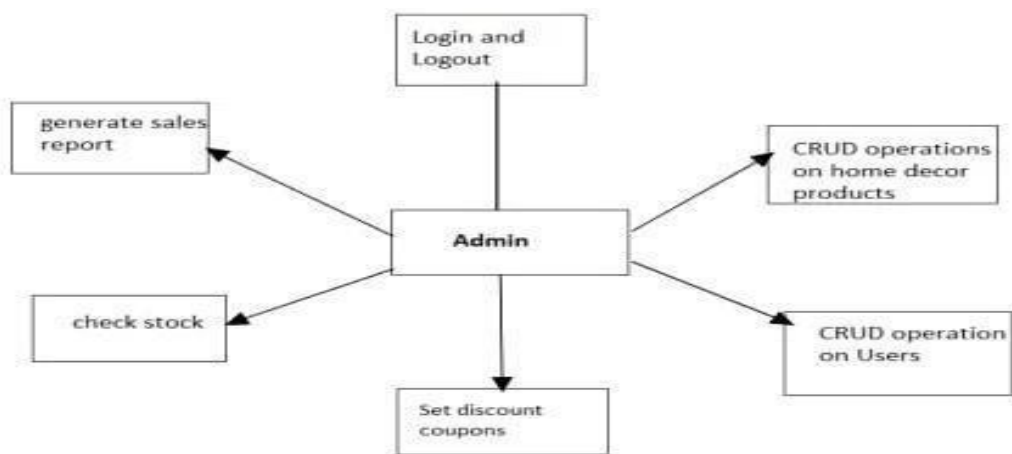
5.0 Web Pages details:

Home Page
Login Page
Sign Up Page
Products Page
Sales and reports page
Wish-list page
Cart page
Discount Coupon
Offer Cart

6.0 MODULES:

1. Admin
2. User

6.1 ADMIN MODULE:



➤ Admin Login

This feature helps the admin to login to system. A admin must login with his user name and password to the system after registration. If they are invalid, the user not allowed to enter the system.

➤ Curd Operations

Admin is able to perform different Curd operations on User and Products.

➤ Bulk Upload

This feature help admin to upload the products in the bulk amount.

➤ Stocks

Admin gets the products in the stock and mail if any stock is less than 10.

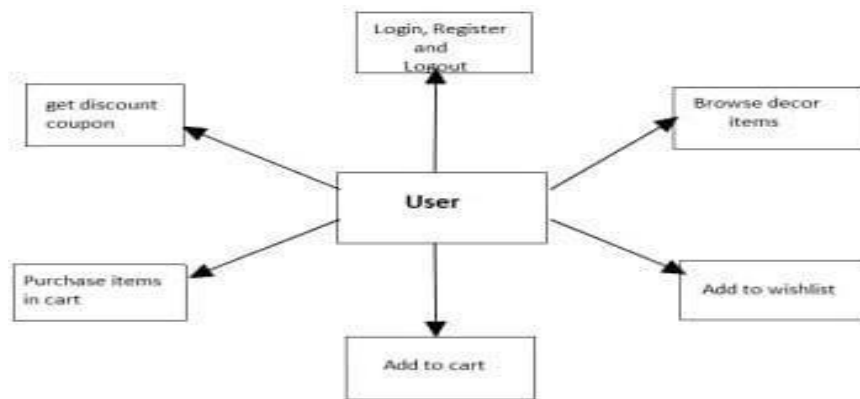
➤ Sales and reports

Admin gets the sales report of particular duration.

➤ Discount coupons

Admin sets the discount coupons for the specific set of users.

6.2 USER MODULE:



➤ User Login

This feature helps the user to login to system. A user must login with his user name and password to the system after registration. If they are invalid, the user not allowed to enter the system.

➤ Product List

This feature helps the user to see the products in different categories.

➤ Cart

This feature helps the user to add the products into the shopping cart and user can increase or decrease the quantity added in the cart. User is able to add “n” number of products in the cart.

➤ Wish-list

This feature helps the user add the products to the Wishlist which the user doesn't want to order at that particular time.

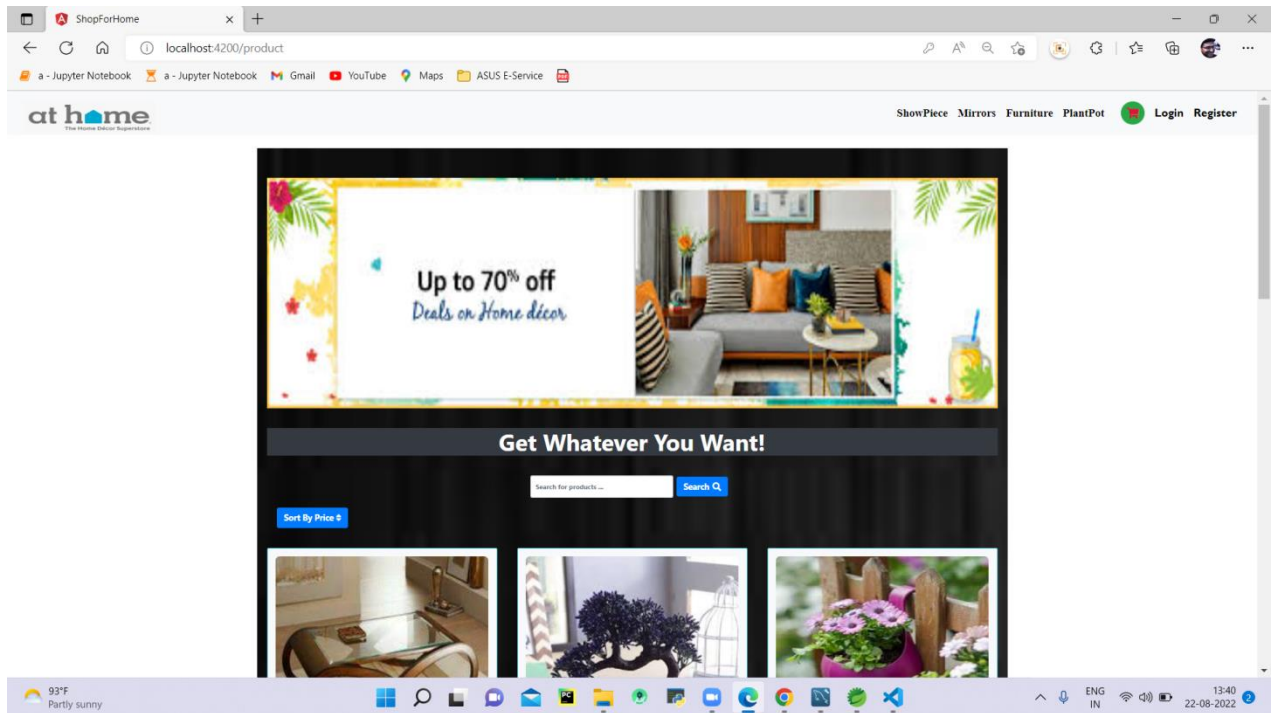
➤ Discount Coupon

User can get different discount coupons.

7.0 RESULTS

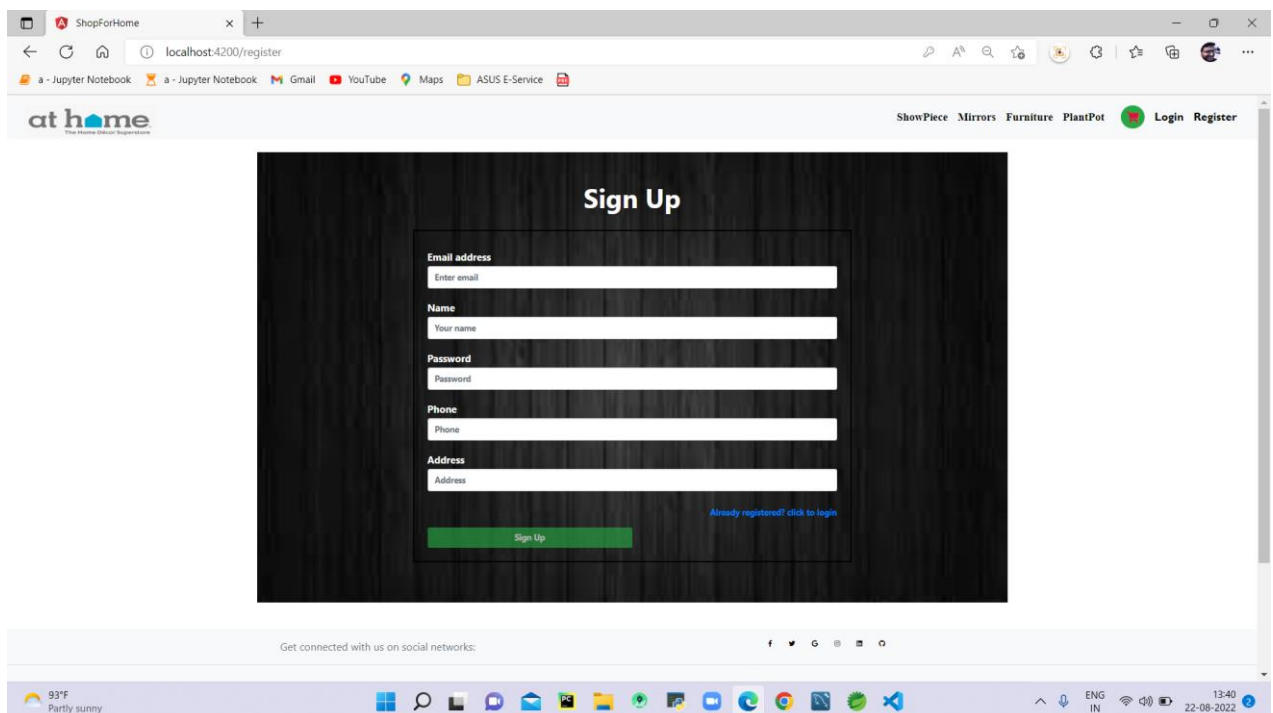
HOME PAGE:

The Home Screen will consist of screen where one can Login Into the application.



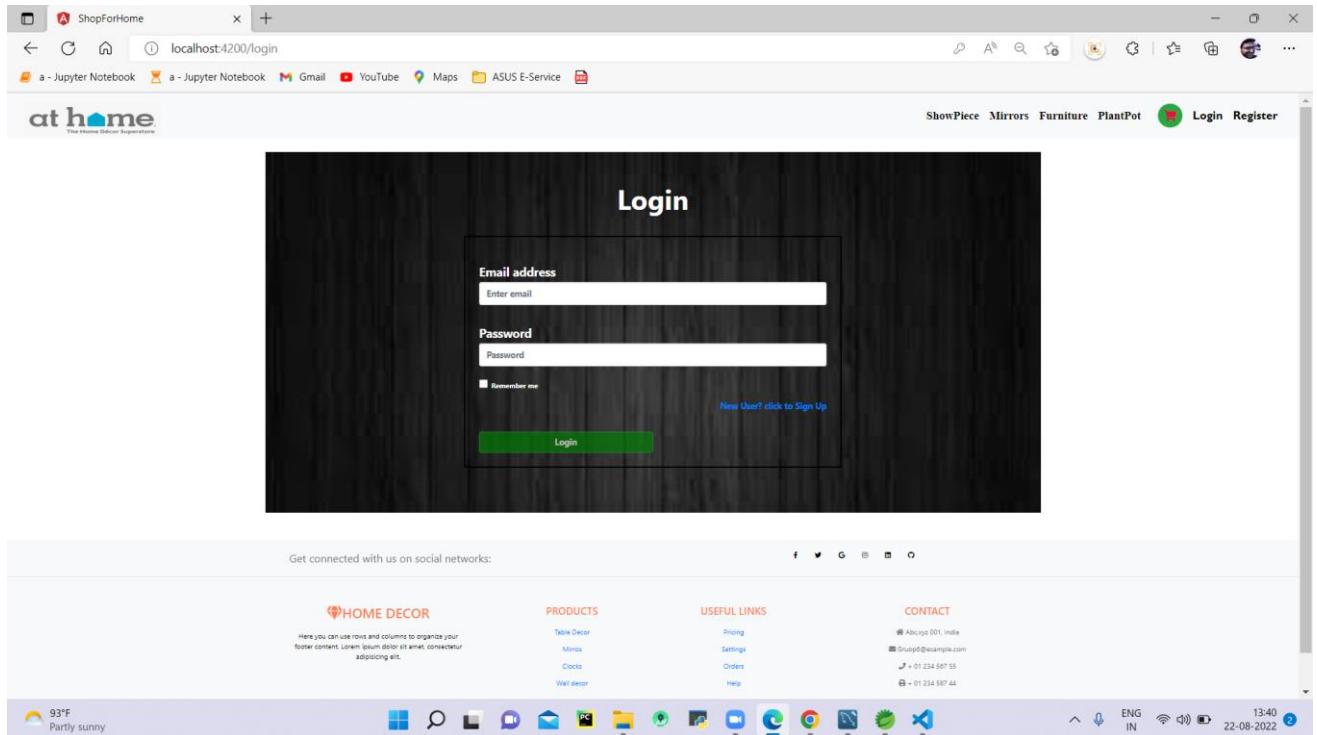
SIGNUP PAGE:

User is able to register into the Application



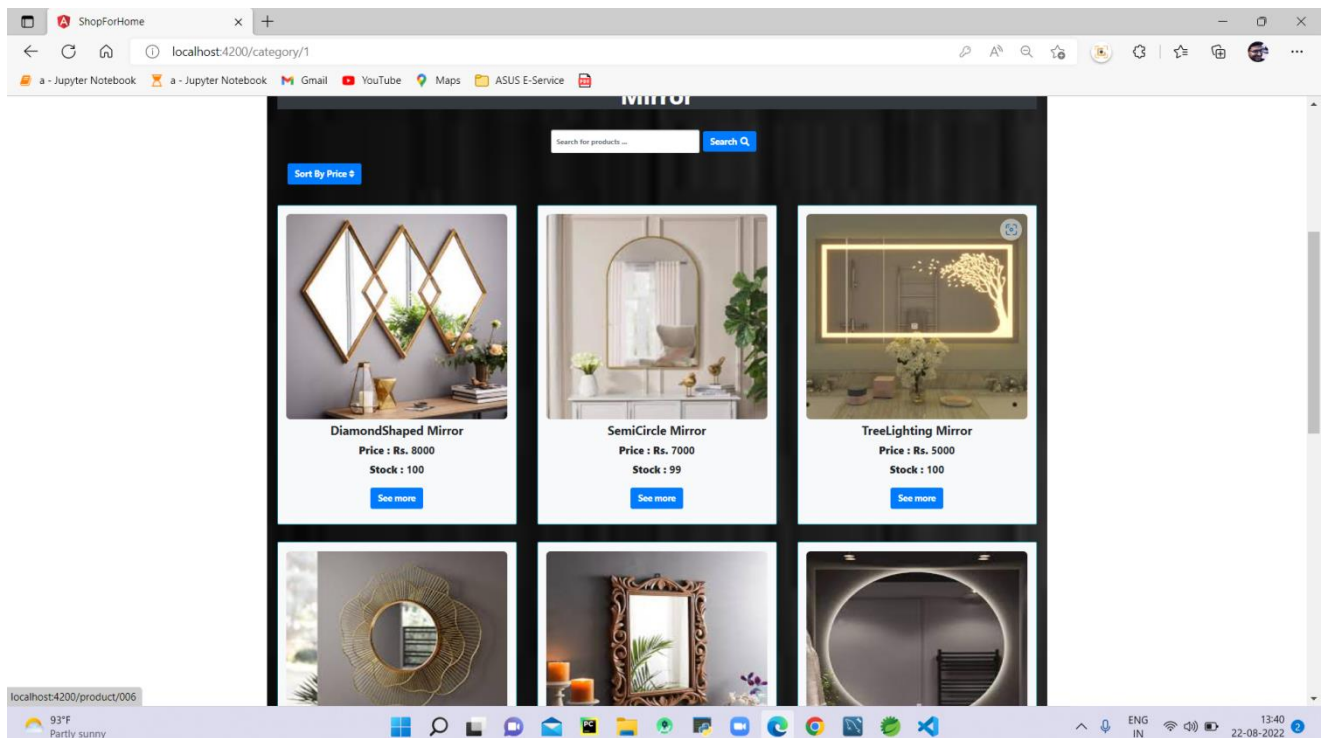
LOGIN PAGE:

User is able to login and logout into the Application



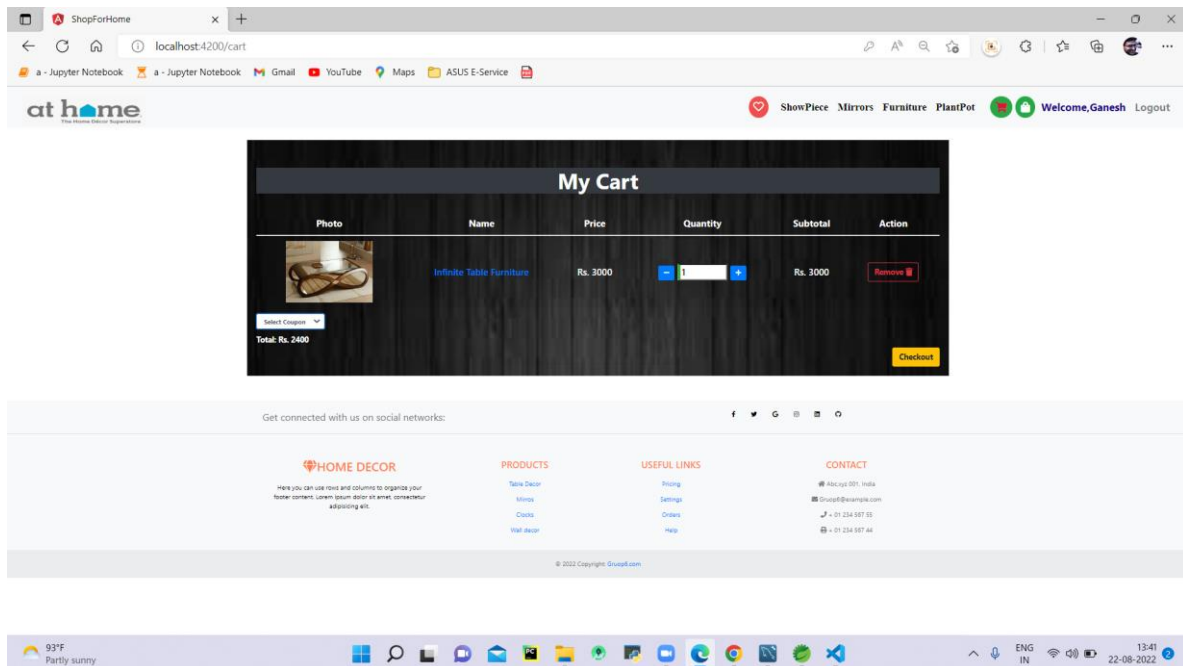
PRODUCT LIST:

User is able to see the products in different categories



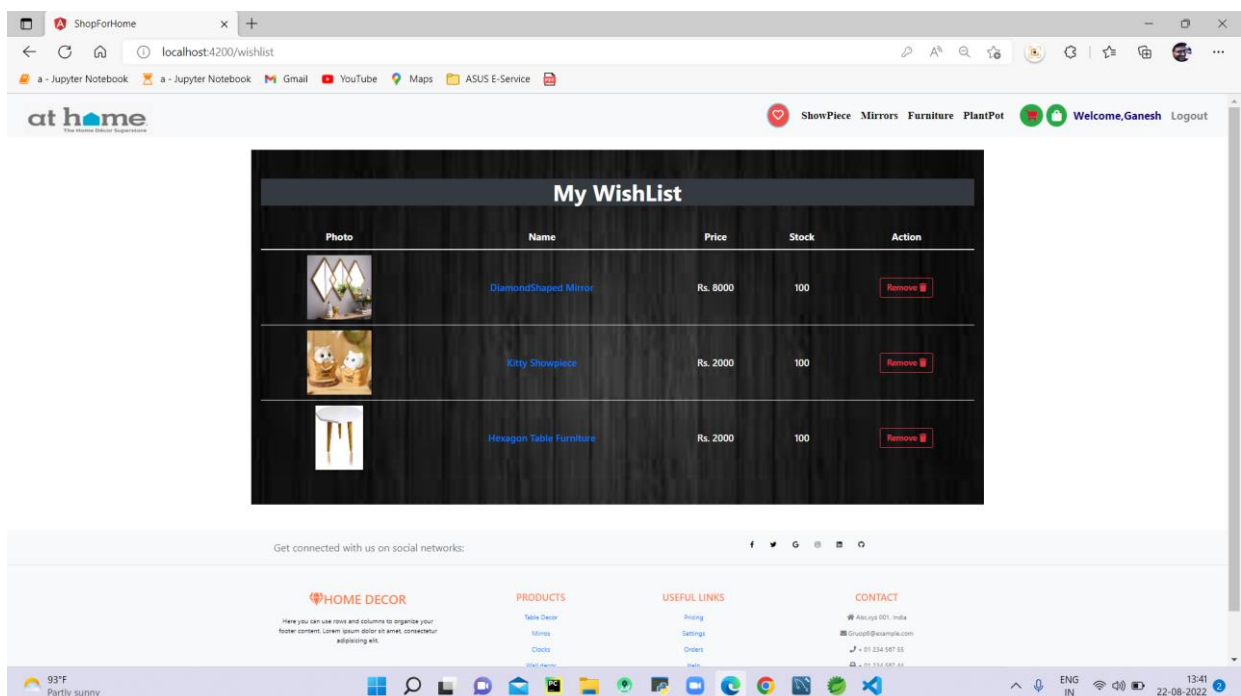
Discount Coupon

User can get discount on selected product items



WISHLIST:

- ☐ User is be able to get the Wish-list option to add those products which they but don't want to order now.



BULK UPLOAD:

The screenshot shows the 'Products' management page in the ShopForHome application. At the top, there's a header with 'at home' logo and user navigation links like '% Discount', 'User', 'Stock', and 'Welcome, Admin'. The main content area is titled 'Products' and features a 'Choose File' button for uploading products. Below this, there's a table with columns: Photo, Code, Name, Type, Description, Price, Stock, Status, Action, and Mail. The table lists three products: 'Table Plant Pot', 'Colourful Plant Pot', and 'WhiteFace Plant Pot'. Each product row has 'Edit', 'Remove', and 'Email' buttons. A search bar is also present above the table.

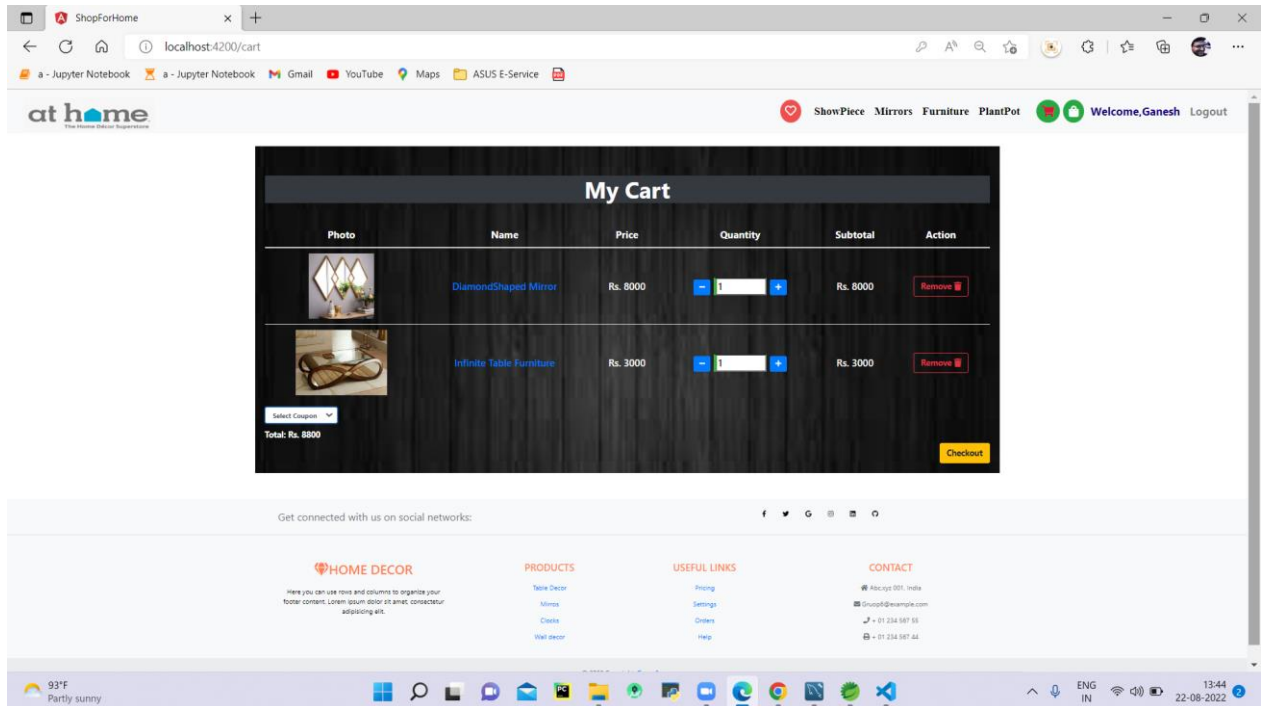
DISCOUNT OFFERS:

User is able to get Offers discount on products.

The screenshot shows the 'Discount Coupons' page in the ShopForHome application. The page has a search bar for coupons and an 'Add Coupon' button. Below the search bar, there's a table with columns for 'Couponcode' and 'Action'. The page also features a footer with social media links, a 'HOME DECOR' section, 'PRODUCTS' (Table Decor, Mirrors, Clocks, Wall decor), 'USEFUL LINKS' (Pricing, Settings, Orders, Help), and 'CONTACT' information (Address, Email, Phone numbers). The footer also includes a copyright notice: '© 2022 Copyright. Givex.com'.

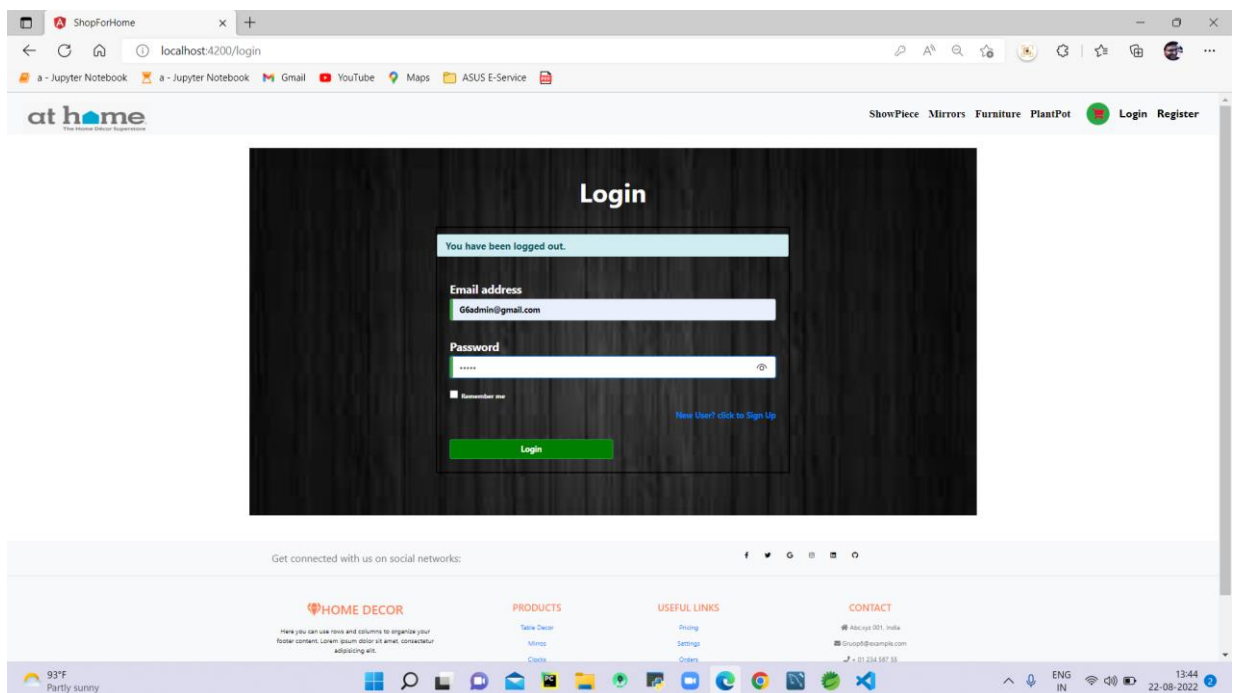
CART OPTION:

User is able to add the products into the shopping , to increase or decrease the quantity added in the cart and to add “n” number of products in to the cart.



Admin Login and Signup:

Admin is able to login with authentication user id password.



Admin Console:

Admin is able to see all the products and user login details and also do CRUD operation

The screenshot shows the 'Products' page in the Admin Console. The page has a dark theme and a sidebar with navigation links. The main content area displays a table of products. The table has the following columns: Photo, Code, Name, Type, Description, Price, Stock, Status, Action, and Mail. There are three products listed:

Photo	Code	Name	Type	Description	Price	Stock	Status	Action	Mail
	00001	Table Plant Pot	Luggage Tags	Lorem ipsum dolor sit amet consectetur adipiscing elit. maxime laudantium quas vel.	Rs. 4000	100	Available	Edit Remove	Email
	00002	Colourful Plant Pot	Luggage Tags	Lorem ipsum dolor sit amet consectetur adipiscing elit. maxime laudantium quas vel.	Rs. 1000	100	Available	Edit Remove	Email
	00003	WhiteFace Plant Pot	Luggage Tags	Lorem ipsum dolor sit amet consectetur adipiscing elit. maxime laudantium quas vel.	Rs. 3000	100	Available	Edit Remove	Email

The page also includes a search bar, a file upload button, and a download report button.

The screenshot shows the 'Users' page in the Admin Console. The page has a dark theme and a sidebar with navigation links. The main content area displays a table of users. The table has the following columns: Email, Name, Phone, Role, and Action. There are two users listed:

Email	Name	Phone	Role	Action
ganesh@gmail.com	Ganesh	1234567890	ROLE_CUSTOMER	Add Admin Remove User
G6admin@gmail.com	Admin	1234567890	ROLE_MANAGER	Remove Admin

The page also includes a search bar and a 'Previous' button.

Frontend code:

```

1 <!doctype html>
2 <html lang="en">
3
4 <head>
5   <meta charset="utf-8">
6   <title>ShopForHome</title>
7   <base href="/">
8
9   <meta name="viewport" content="width=device-width, initial-scale=1">
10  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.6.3/css/all.css"
11      integrity="sha384-UhrtZ11+pbxHCHp177B114Z1qirQ80K428NTSRyMA2F-d33n5dQ81W4E00s/" crossorigin="anonymous">
12  <link rel="icon" type="image/x-icon" href="favicon.ico">
13  <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.2/css/all.min.css"
14      integrity="sha512-HC5Fg8L8/xu6dm/11374xh1l5uyzgT9tuc/h5rtw6uz30vgr2a9jyxx1e1y+8+xAmJKV51bPM/CuL7qx08u=="
15      crossorigin="anonymous" referrerpolicy="no-referrer" />
16  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.min.css">
17  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.0.0/dist/css/bootstrap.min.css"
18      integrity="sha384-Gn5384xqQ1a0N4A+6588XpXpGf541W1NH0E263Xmf-cJLSAwIGfAm/dA1S6JXm" crossorigin="anonymous" />
19 </head>
20
21 <body>
22   <app-root></app-root>
23 </body>
24
25
26

```

Problems OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Date: 2022-08-22T03:22:39.407Z
Hash: 0bbef9e36f821deb158e
Time: 16196ms

chunk (main) main.js, main.js.map (main) 196 kB [initial] [rendered]
chunk (polyfills) polyfills.js, polyfills.js.map (polyfills) 223 kB [initial] [rendered]
chunk (runtime) runtime.js, runtime.js.map (runtime) 6.88 kB [entry] [rendered]
chunk (scripts) scripts.js, scripts.js.map (scripts) 133 kB [rendered]
chunk (styles) styles.js, styles.js.map (styles) 833 kB [initial] [rendered]
chunk (vendor) vendor.js, vendor.js.map (vendor) 4.91 MB [initial] [rendered]
[vdom]: Compiled successfully.

Backend code:

```

4
5 spring.datasource.driver-class-name=com.mysql.cj.jdbc.Driver
6 spring.datasource.url=jdbc:mysql://localhost:3306/ShopForHome
7 spring.datasource.username=root
8 spring.datasource.password=root
9
10 spring.mail.default-encoding=UTF-8
11 spring.mail.protocol=smtp
12 spring.mail.test-connection=false
13 spring.mail.host=smtp.gmail.com
14 spring.mail.username=paneshetla@gmail.com
15 spring.mail.password=jdzumayvkh2bcm
16 spring.mail.port=587
17 spring.mail.properties.mail.smtp.auth=true
18 spring.mail.properties.mail.smtp.starttls.enable=true
19
20 spring.jpa.show-sql=false
21 spring.jpa.hibernate.ddl-auto=none
22 spring.jpa.database=mysql
23 spring.jpa.properties.hibernate.temp.use_jdbc_metadata_defaults=false

```

shop-for-home-discount-service - ShopForHomeDiscountServiceApplication [Spring Boot App] C:\Program Files\Java\jdk-11.0.15\bin\java.exe (22-Aug-2022, 8:50:03 am) [pid: 10264]

2022-08-22 12:20:10.547 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:20:10.559 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:30:10.574 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:35:10.585 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:40:10.591 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:45:10.597 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:50:10.608 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 12:55:10.609 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:00:10.610 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:05:10.616 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:10:10.632 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:15:10.645 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:20:10.655 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

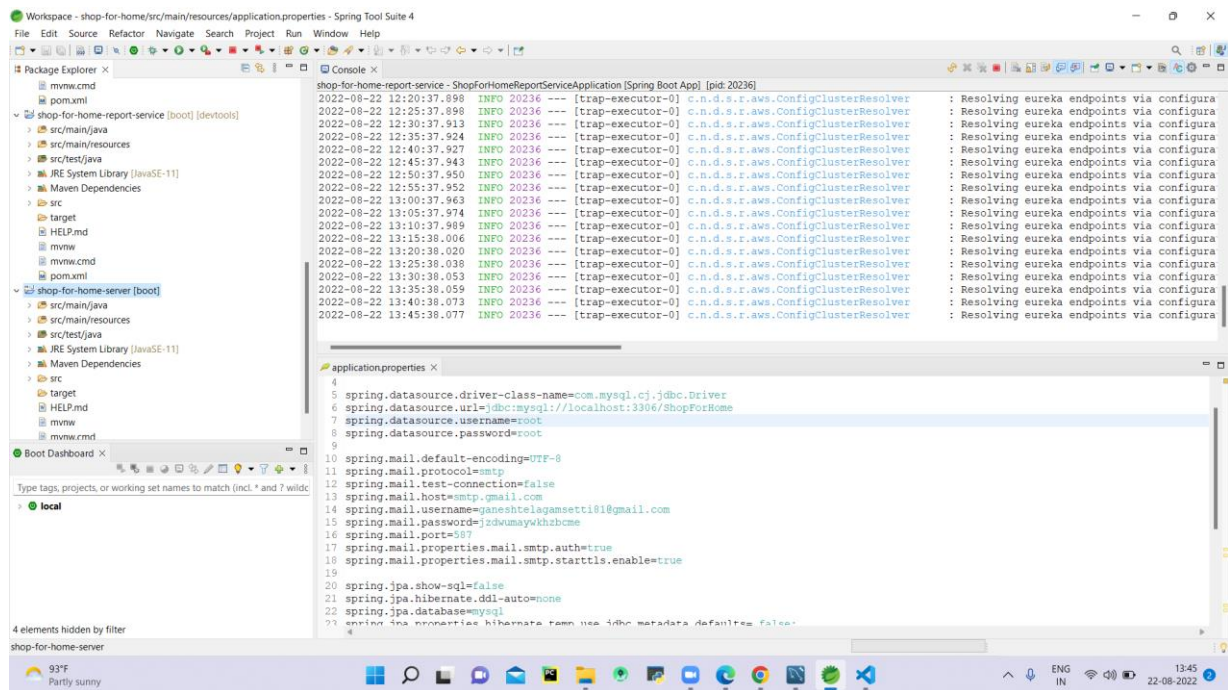
2022-08-22 13:25:10.669 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:30:10.673 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

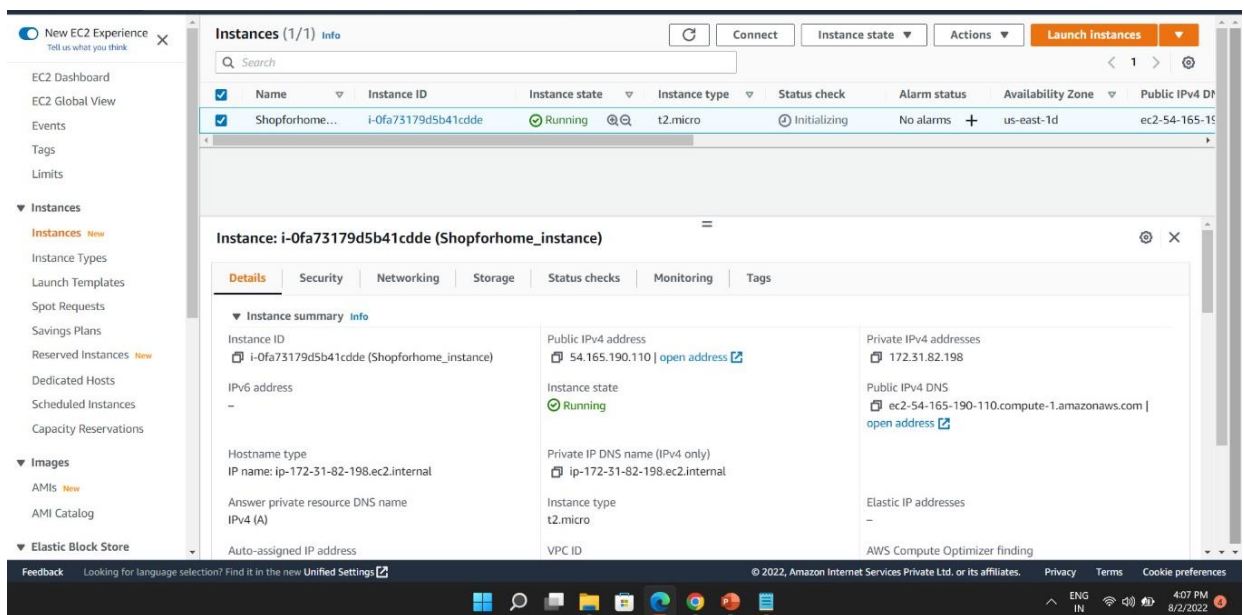
2022-08-22 13:35:10.689 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:40:10.703 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura

2022-08-22 13:45:10.718 INFO 10264 --- [trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver : Resolving eureka endpoints via configura



DEPLOYING EC2 INSTANCES:



RDS Database

The screenshot shows the Amazon RDS console for the 'capstone-database' instance. The left sidebar contains navigation links: Dashboard, Databases, Query Editor, Performance insights, Snapshots, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, Events, Event subscriptions, Recommendations, and Certificate update. The main content area displays the instance details under the 'Summary' tab. The instance is a MySQL Community engine, db.t3.micro class, in the us-east-1b region. It is currently backing up and has 0 connections. The 'Connectivity & security' tab is selected, showing the endpoint 'capstone-database.cp5fqvrhjzy.us-east-1.rds.amazonaws.com' on port 3306, in the us-east-1b availability zone, with VPC 'vpc-010ed6990f8b324ea'. The security group is 'default (sg-0fa774dd3c71e5425)' and is active. The instance is publicly accessible.

Summary			
DB identifier capstone-database	CPU -	Status ⌚ Backing-up	Class db.t3.micro
Role	Current activity	Engine MySQL Community	Region & AZ us-east-1b
Instance	0 Connections		

Connectivity & security		
Endpoint & port Endpoint capstone-database.cp5fqvrhjzy.us-east-1.rds.amazonaws.com Port 3306	Networking Availability Zone us-east-1b VPC vpc-010ed6990f8b324ea	Security VPC security groups default (sg-0fa774dd3c71e5425) Active Publicly accessible Yes

Security Group

The screenshot shows the Amazon EC2 console for the security group 'sg-066ee122af4b5f78a - Capstoneserver'. The left sidebar contains navigation links: EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area displays the security group details under the 'Details' tab. The security group is named 'Capstoneserver', has ID 'sg-066ee122af4b5f78a', and is owned by '882799898880'. It has 2 inbound rules and 1 outbound rule. The 'Inbound rules (2)' tab is selected, showing a table with 2 rules. A green banner at the top indicates that the security group was created successfully.

Details			
Security group name Capstoneserver	Security group ID sg-066ee122af4b5f78a	Description allow all traffic	VPC ID vpc-010ed6990f8b324ea
Owner 882799898880	Inbound rules count 2 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules (2)						
Name	Security group rule...	IP version	Type	Protocol	Port range	

Target Group

Successfully created target group: Capstone-shop

EC2 > Target groups

Target groups (1) [Info](#)

Search or filter target groups

Name	ARN	Port	Protocol	Target type	Load balancer
Capstone-shop	arn:aws:elasticloadbalancing:us-east-1:1173515098:targetgroup/Capstone-shop/79b503323773238	80	HTTP	Instance	None associated

0 target groups selected

Select a target group above.

Load Balancer:

Create Load Balancer Actions

search: Castone-lb Add filter

Name	DNS name	State	VPC ID	Availability Zones	Type	Created
Castone-lb	Castone-lb-1173515098.us-east-1.elb.amazonaws.com	Provisioning	vpc-010ed690f6b324ea	us-east-1a, us-east-1c, ...	application	August 2, 2022

Load balancer: Castone-lb

Description Listeners Monitoring Integrated services Tags

Basic Configuration

Name	Castone-lb
ARN	arn:aws:elasticloadbalancing:us-east-1:1173515098:loadbalancer/app/Castone-lb/79b503323773238
DNS name	Castone-lb-1173515098.us-east-1.elb.amazonaws.com (A Record)
State	Provisioning
Type	application
Scheme	internet-facing
IP address type	IPv4

S3 Bucket:

Amazon S3

Buckets

Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3

Storage Lens

Dashboards
AWS Organizations settings
Feature spotlight

Account snapshot
Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (1) Info
Buckets are containers for data stored in S3. [Learn more](#)

Find buckets by name

Name	AWS Region	Access	Creation date
capstone-shopforhome	US East (N. Virginia) us-east-1	Bucket and objects not public	August 2, 2022, 16:08:44 (UTC+05:30)

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

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ENG IN 4:09 PM 8/2/2022

JDK Installation:

```
ubuntu@ip-172-31-43-220:~$ sudo apt-get install openjdk-11-jdk
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java
  dconf-gsettings-backend dconf-service fontconfig-config fonts-dejavu-core
  fonts-dejavu-extra gsettings-desktop-schemas java-common libasound2
  libasound2-data libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data
  libavahi-common3 libcups2 libdconf1 libdrm-amdgpu libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libfontconfig1 libfontenc1 libgl1 libgl1-mesa-dri
  libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3
  libharfbuzz0b libice-dev libice6 libjpeg-turbo8 libjpeg8 liblcms2-2 liblvm13
  libpciaccess0 libpcsc-lite libpthread-stubs0-dev libsensors-config libsensors5
  libsm-dev libsm6 libvulkan1 libwayland-client0 libx11-dev libx11-xcb1 libxau-dev
  libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0
  libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1
  libxdmcp-dev libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4
  libxrandr2 librender1 libxshmfence1 libxt-dev libxt6 libxtst6 libxv1 libxxf86dga1
  libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless session-migration x11-common x11-utils x11proto-dev
  xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre libasound2-plugins alsa-utils cups-common libice-doc liblcm2-utils
  pcscd lm-sensors libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo
  openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho
  fonts-wqy-microhei | fonts-wqy-zenhei fonts-indic mesa-utils
The following NEW packages will be installed:
  alsa-topology-conf alsa-ucm-conf at-spi2-core ca-certificates-java
  dconf-gsettings-backend dconf-service fontconfig-config fonts-dejavu-core
  fonts-dejavu-extra gsettings-desktop-schemas java-common libasound2
  libasound2-data libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common-data
  libavahi-common3 libcups2 libdconf1 libdrm-amdgpu libdrm-intel1 libdrm-nouveau2
  libdrm-radeon1 libfontconfig1 libfontenc1 libgl1 libgl1-mesa-dri
  libgl1-mesa-dri libglapi-mesa libglvnd0 libglx-mesa0 libglx0 libgraphite2-3
  libharfbuzz0b libice-dev libice6 libjpeg-turbo8 libjpeg8 liblcms2-2 liblvm13
  libpciaccess0 libpcsc-lite libpthread-stubs0-dev libsensors-config libsensors5
  libsm-dev libsm6 libvulkan1 libwayland-client0 libx11-dev libx11-xcb1 libxau-dev
  libxaw7 libxcb-dri2-0 libxcb-dri3-0 libxcb-glx0 libxcb-present0 libxcb-randr0
  libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libxcomposite1
  libxdmcp-dev libxfixes3 libxft2 libxi6 libxinerama1 libxkbfile1 libxmu6 libxpm4
  libxrandr2 librender1 libxshmfence1 libxt-dev libxt6 libxtst6 libxv1 libxxf86dga1
  libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless session-migration x11-common x11-utils x11proto-dev
  xorg-sgml-doctools xtrans-dev
```

Starting the Application shop-for-home-1.0.0.jar:

```

Select ubuntu@ip-172-31-43-220:~
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/serialver to provide /usr/bin/serialver (serialver) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jaotc to provide /usr/bin/jaotc (jaotc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jhsdb to provide /usr/bin/jhsdb (jhsdb) in auto mode
Setting up openjdk-11-jdk-amd64 (11.0.15+10-Ubuntu0.22.04.1) ...
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jconsole to provide /usr/bin/jconsole (jconsole) in auto mode
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-43-220:~$ java -version
openjdk version "11.0.15" 2022-04-19
OpenJDK Runtime Environment (build 11.0.15+10-Ubuntu0.22.04.1)
OpenJDK 64-Bit Server VM (build 11.0.15+10-Ubuntu0.22.04.1, mixed mode, sharing)
ubuntu@ip-172-31-43-220:~$ cd ubuntu/home
-bash: cd: ubuntu/home: No such file or directory
ubuntu@ip-172-31-43-220:~$ cd home/ubuntu
-bash: cd: home/ubuntu: No such file or directory
ubuntu@ip-172-31-43-220:~$ java -jar
.cache/          .ssh/          shop-for-home-1.0.0.jar
ubuntu@ip-172-31-43-220:~$ java -jar
.cache/          .ssh/          shop-for-home-1.0.0.jar
ubuntu@ip-172-31-43-220:~$ java -jar shop-for-home-1.0.0.jar

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:: Spring Boot ::
(v2.7.1)

2022-07-12 13:14:09.588 INFO 5138 --- [main] c.i.shopforhome.ShopForHomeApplication : Starting ShopForHomeApplication v1.0.0 using Java 11.0.15 on ip-172-31-43-220 with PID 5138 (/home/ubuntu/shop-for-home-1.0.0.jar started by ubuntu in /home/ubuntu)
2022-07-12 13:14:09.596 INFO 5138 --- [main] c.i.shopforhome.ShopForHomeApplication : No active profile set, falling back to 1 default profile: "default"
2022-07-12 13:14:11.691 INFO 5138 --- [main] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2022-07-12 13:14:11.895 INFO 5138 --- [main] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 183 ms. Found 8 JPA repository interfaces.
2022-07-12 13:14:13.601 INFO 5138 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http)
2022-07-12 13:14:13.626 INFO 5138 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-07-12 13:14:13.627 INFO 5138 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.64]
2022-07-12 13:14:13.847 INFO 5138 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/api] : Initializing Spring embedded WebApplicationContext
2022-07-12 13:14:13.847 INFO 5138 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 4130 ms
2022-07-12 13:14:14.397 INFO 5138 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH0000204: Processing PersistenceUnitInfo [name: default]

```

8.0 CONCLUSION:

Hence, we created an e-commerce application successfully with all the requirements mentioned in the objective

