

CAPSTONE PROJECT - “SHOP FOR HOME”

MENTOR
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BY
MEMBERS OF C4-GROUP2



TEAMMATES

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INTRODUCTION

- Online shopping is a form of electronic commerce which allows consumers to directly buy goods or services from a seller over the Internet using a web browser or a mobile app.

Shop For Home 

TECHNOLOGIES USED

- ① BACK-END : Spring Boot Framework
- ① FRONT-END : Angular Framework
- ① DATABASE : PostgreSQL
- ① DEPLOYMENT : Amazon Web Services

GIT REPOSITORY

The screenshot shows a web browser window displaying the GitHub repository page for 'VarshithaD / ShopForHome'. The browser has three tabs: 'localhost / 127.0.0.1 / ecommerce', 'Shop For Home', and 'VarshithaDShopForHome at br...'. The address bar shows 'github.com/VarshithaD/ShopForHome/tree/branch'. The repository page includes a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and a header for 'VarshithaD / ShopForHome' with options to Pin, Unwatch, Fork, and Star. Below the header, there are tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The main content area shows a message: 'branch had recent pushes less than a minute ago' with a 'Compare & pull request' button. It also displays '3 branches' and '0 tags'. A status message indicates 'This branch is 1 commit ahead, 1 commit behind main.' with a 'Contribute' button. A table lists the repository's files and their commit history:

File	Commit	Time
backend	first commit	4 minutes ago
frontend	first commit	4 minutes ago
Exported_ecommerce.sql	first commit	4 minutes ago
README.md	first commit	4 minutes ago
db_schema.png	first commit	4 minutes ago
ecommerce.sql	first commit	4 minutes ago
fileupload.csv	first commit	4 minutes ago

The right sidebar contains sections for 'About' (No description, website, or topics provided), 'Releases' (No releases published, Create a new release), and 'Packages' (No packages published, Publish your first package). The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying '23°C Partly cloudy', 'ENG IN', and the date '18:24 10-08-2022'.

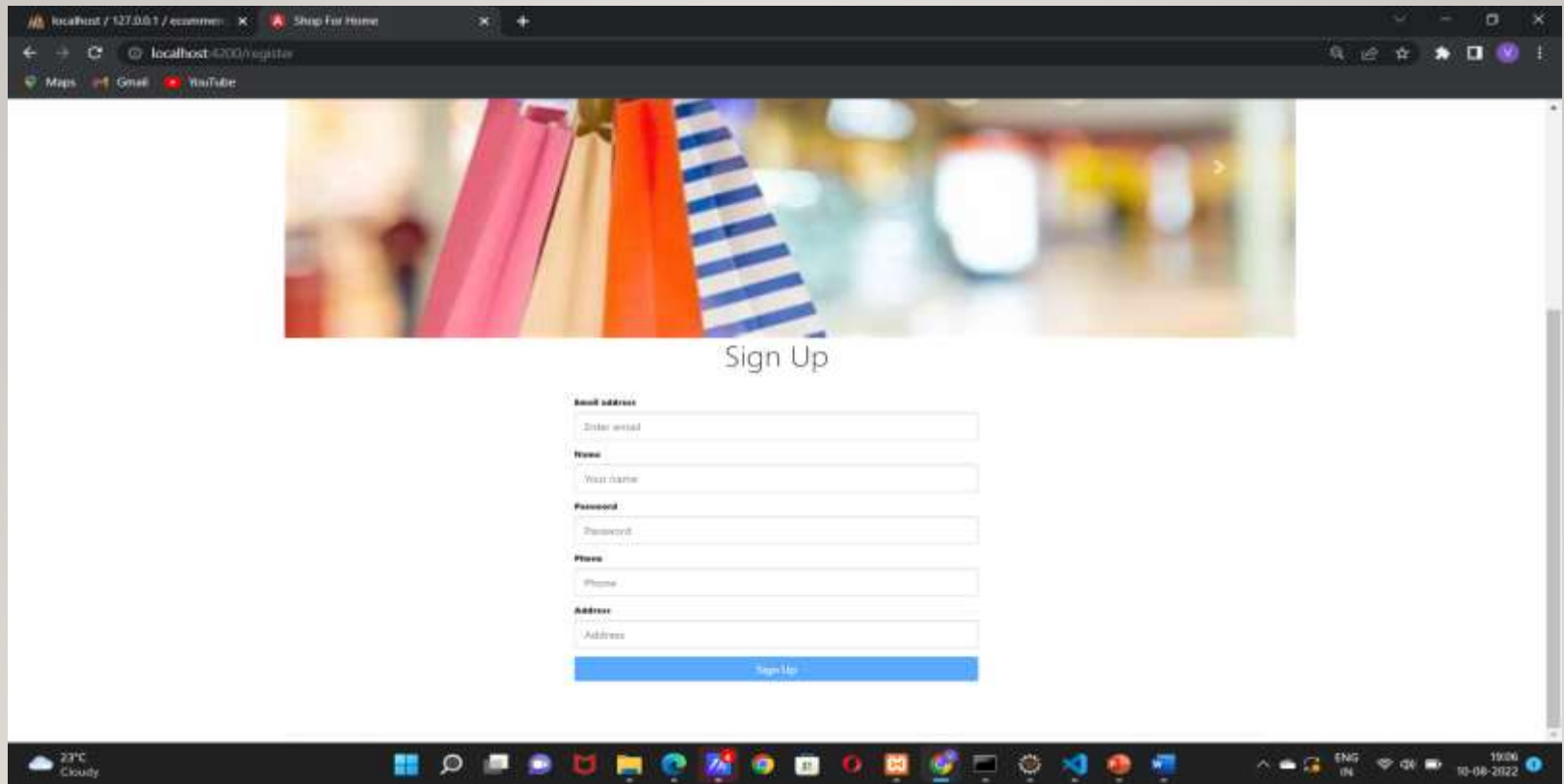
FRONTEND

User Functionalities

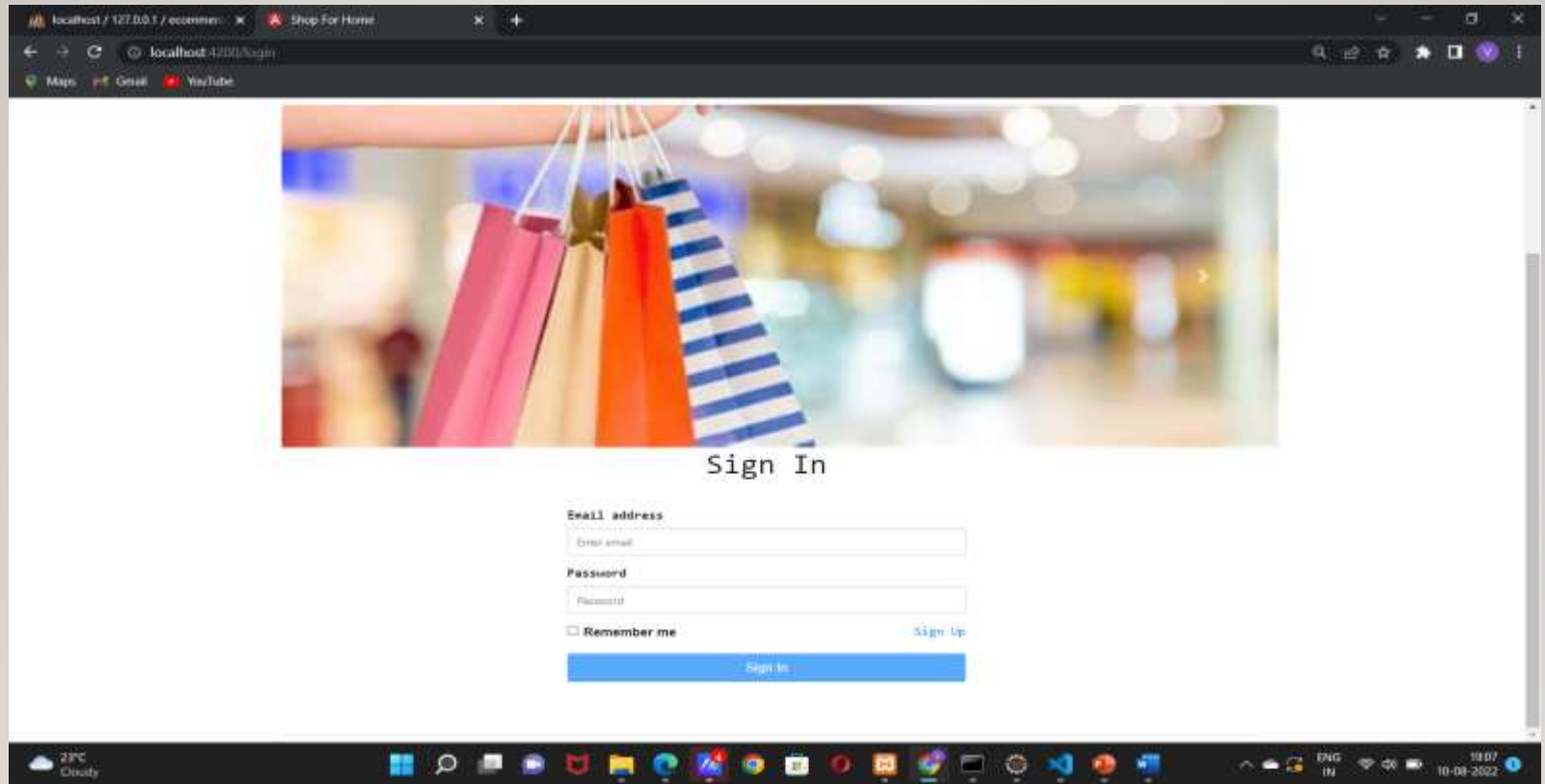
- ① User must be able to login, Logout and Register into the application.
- ① User must be able to see the products in different categories.
- ① User must be able to sort the products.
- ① User must be able to add the products into the shopping cart.
- ① User must be able to increase or decrease the quantity added in the cart.
- ① User must be able to add “n” number of products in the cart.
- ① User must be able to get the Wishlist option where I can add those products which I want but don't want to order now.
- ① User must get different discount coupons.



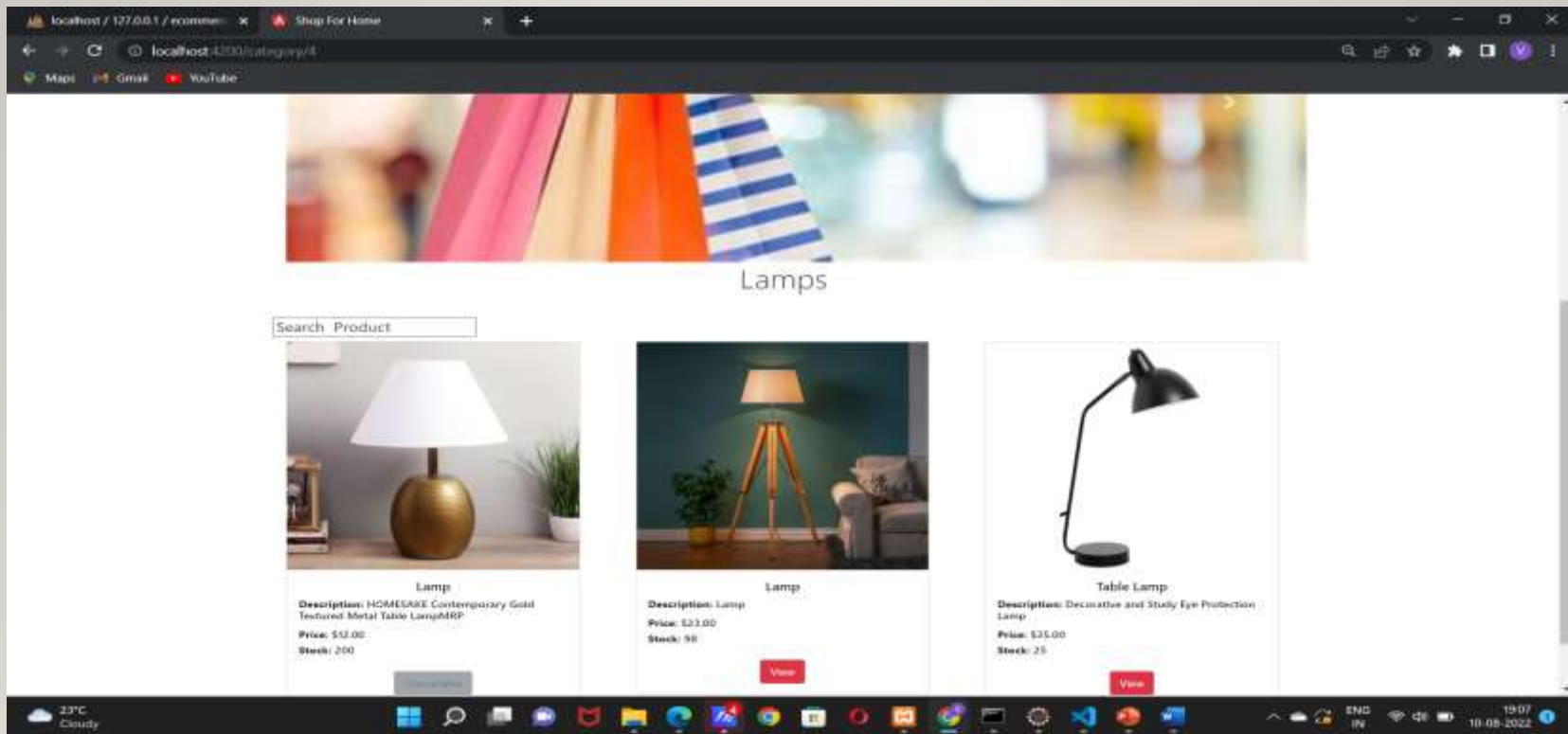
HOME PAGE



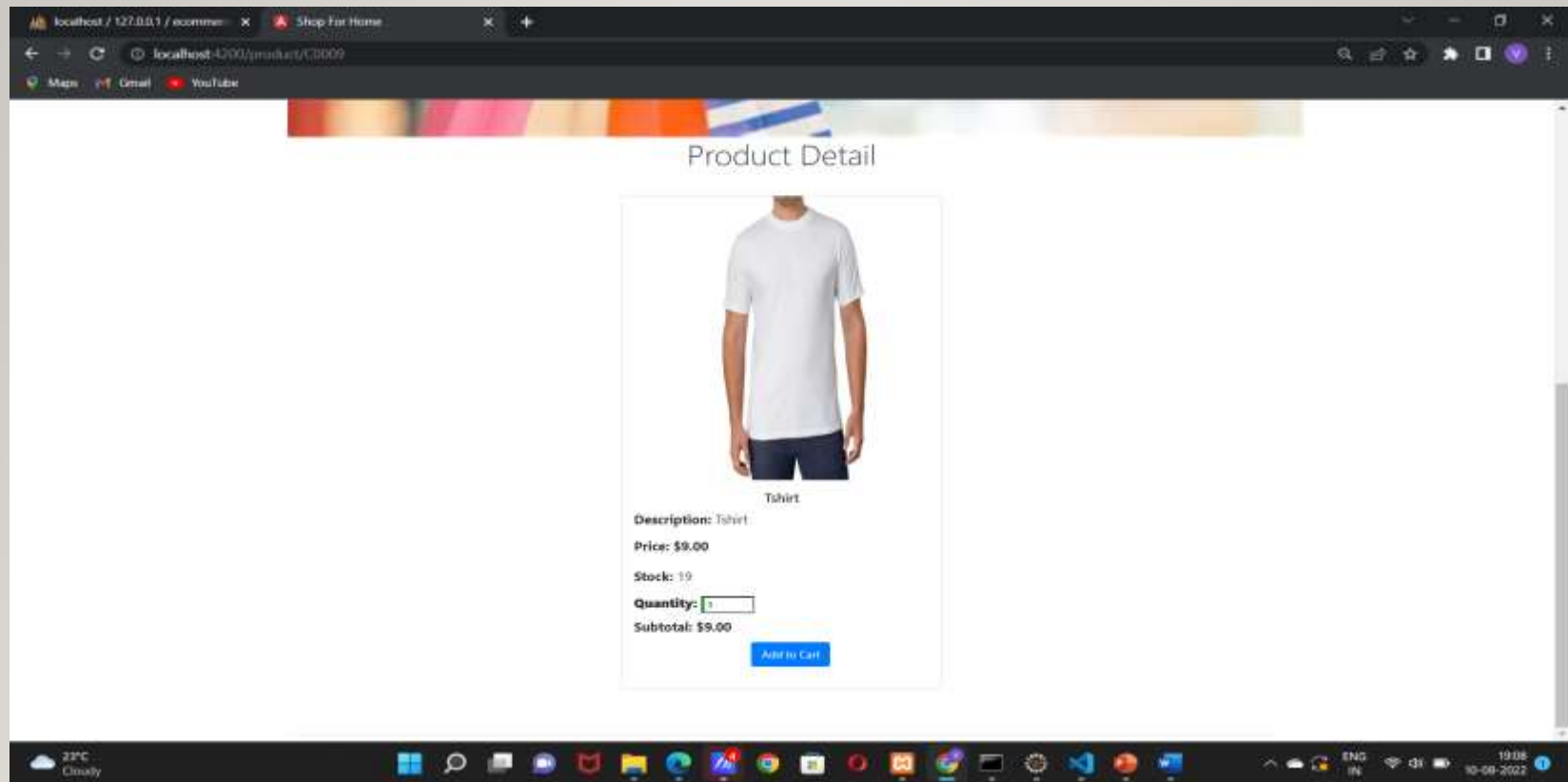
REGISTRATION PAGE



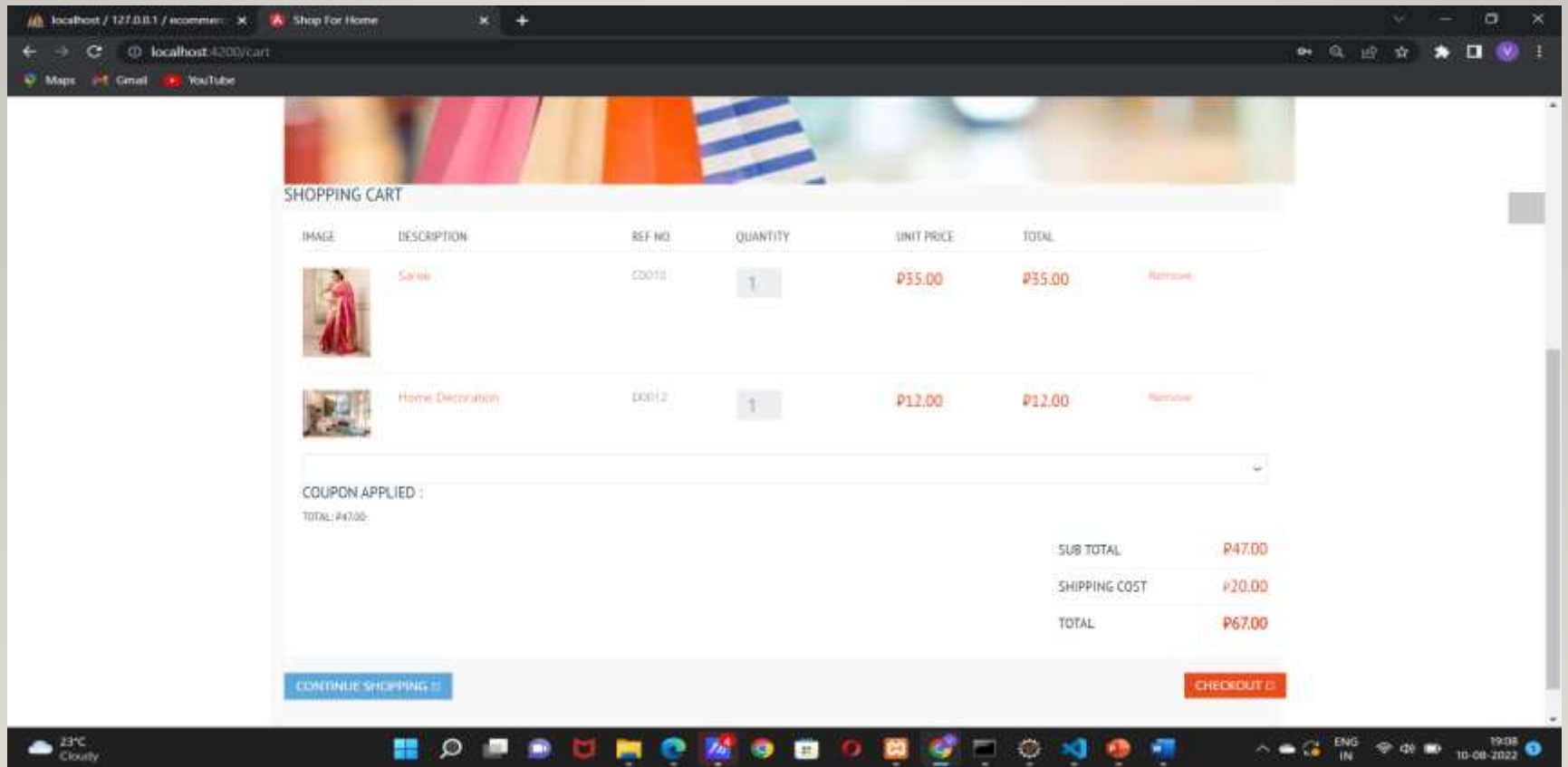
USER LOGIN PAGE



SORT BY CATEGORIES



PRODUCT DETAILS







CART

localhost / 127.0.0.1 / ecommerce: x Shop For Home x +

localhost:4200/wishlist

Maps Gmail YouTube

My Wishlist

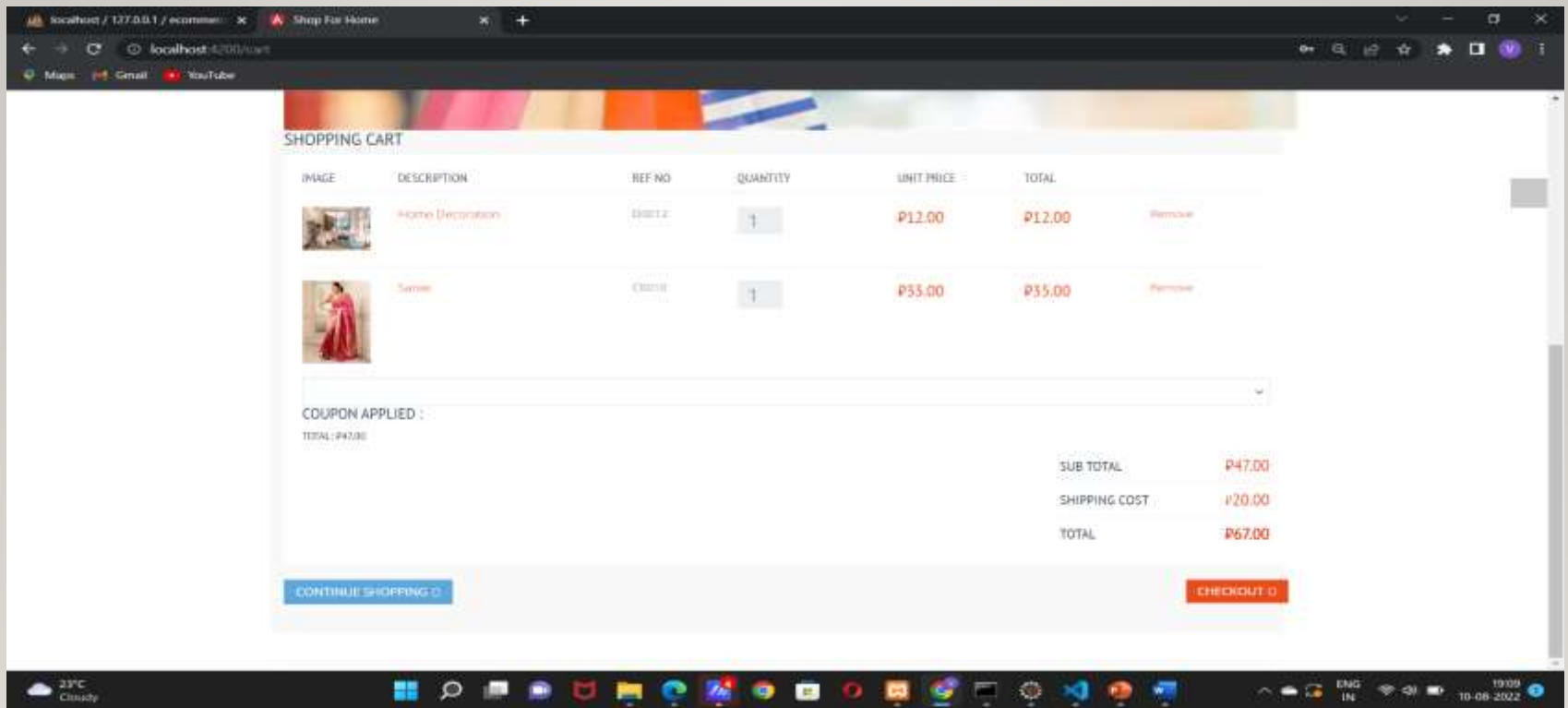
Photo	ID	Name	Price	Action
	C0009	Tshirt	\$0.00	Remove
	B008	Furniture	\$22.00	Remove
	E0003	Lamp	\$23.00	Remove
	D0012	Home Decoration	\$12.00	Remove

23°C Cloudy

Windows taskbar icons: File Explorer, Edge, Chrome, etc.

System tray: ENG IN, 19:09, 10-04-2023

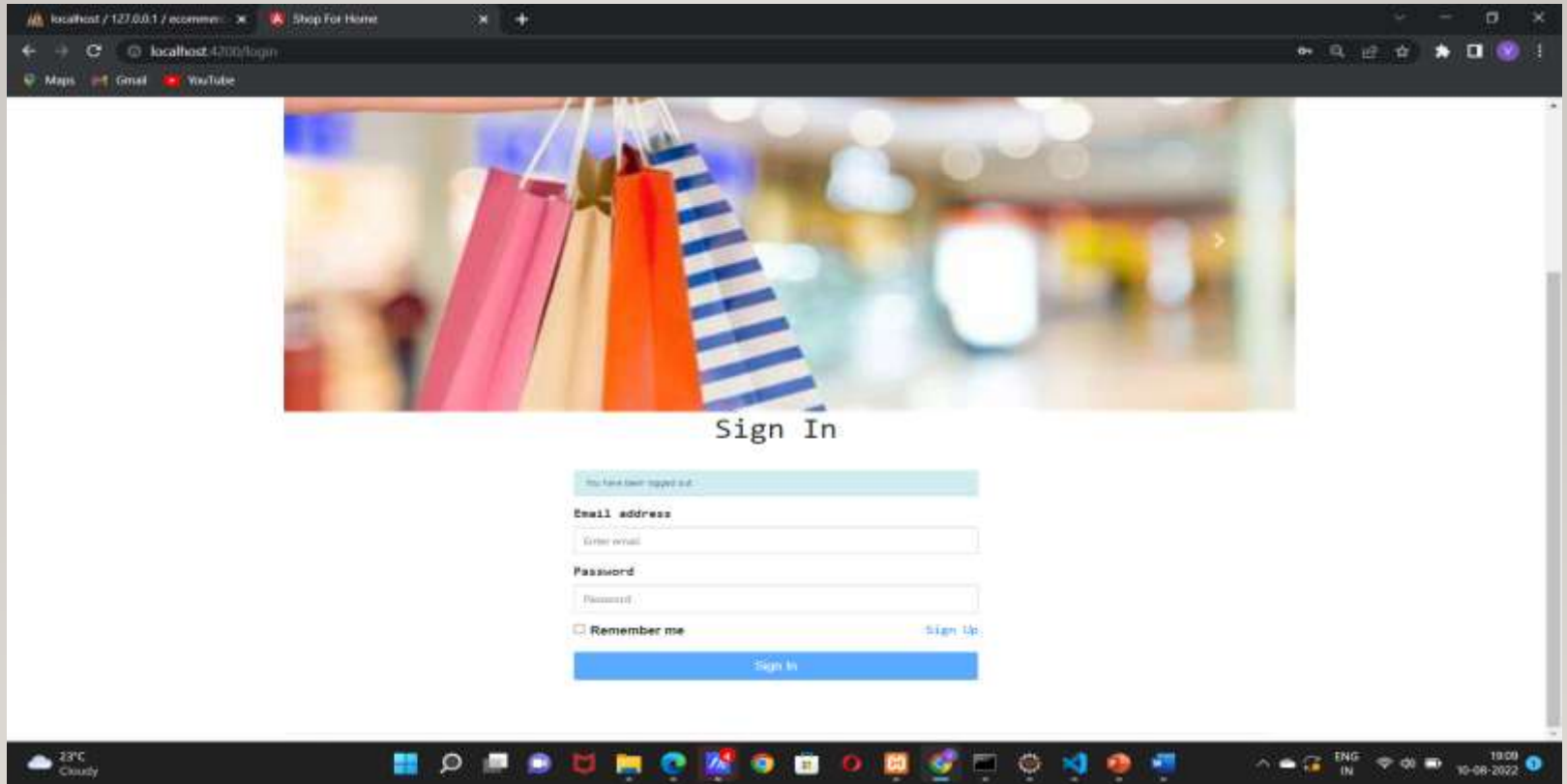
WISHLIST



DISCOUNT CUPON

Admin Functionalities

- Admin must be able to login, Logout and Register into the application.
- Admin must be able to perform CRUD on Users.
- Admin must be able to Perform CRUD on the products.
- Admin must be able to get bulk upload option to upload a csv for products details.
- Admin must be able to get the stocks.
- Admin must be able to mail if any stock is less than 10.
- Admin must be able to get the sales report of a specific duration.
- Admin must be able to set the discount coupons for the specific set of users



ADMIN LOGIN PAGE

localhost / 127.0.0.1 / ecommerce Shop For Home




localhost:4200/seller/product

Products

Choose File No file chosen

Upload

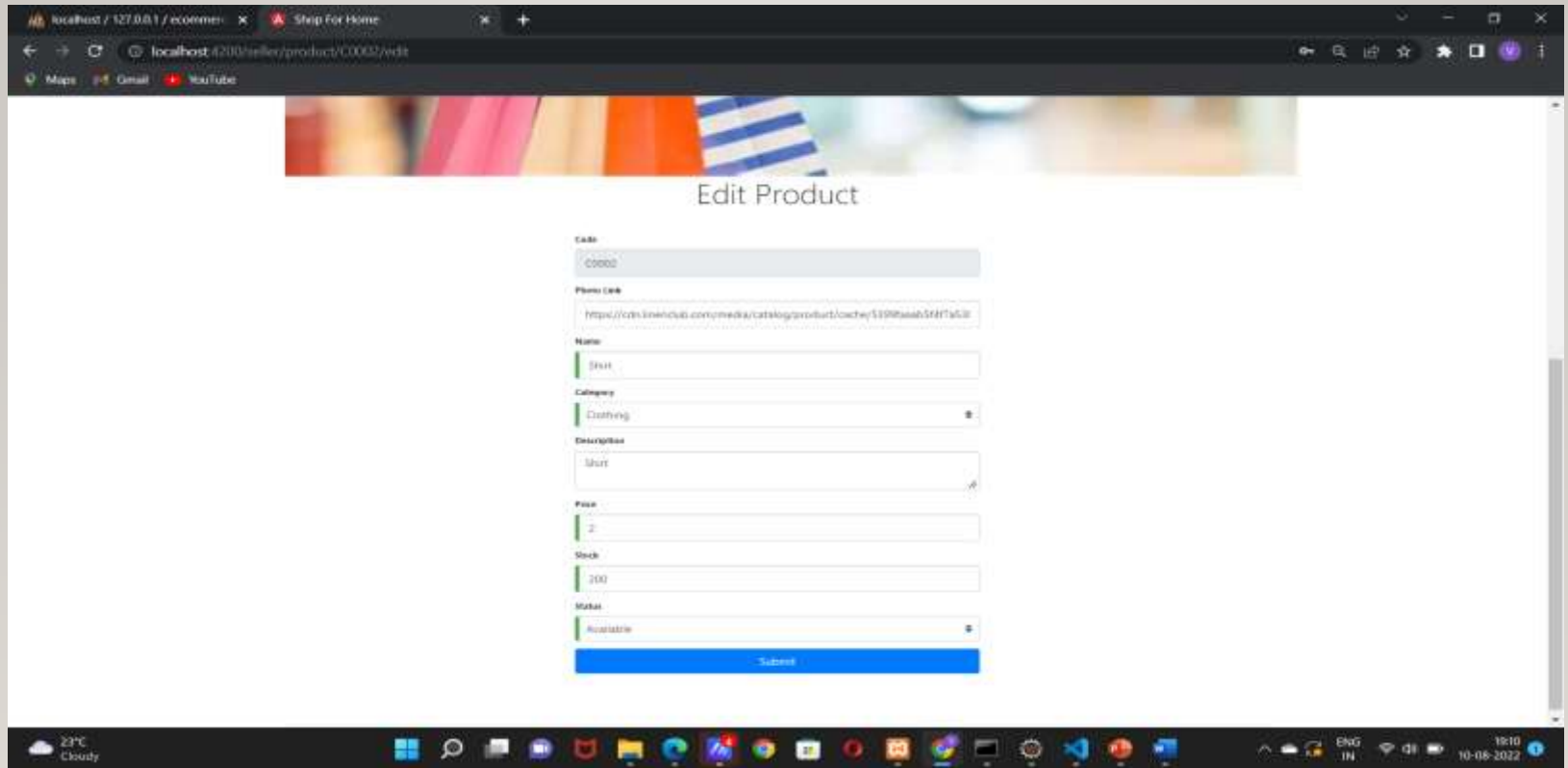
Table of Products

Photo	Code	Name	Type	Description	Price	Stock	Status	Action
	B0001	Chair	Furniture	Wooden chair	\$45.00	3	Available	Edit
	B0002	Table	Furniture	Family Dining Table	\$30.00	199	Unavailable	Edit
	B0003	Furniture	Furniture	Study Table	\$22.00	45	Available	Edit

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ENG IN 19:10 10-08-2022

PRODUCT DETAILS



EDIT PRODUCT

localhost / 127.0.0.1 / ecommerce Shop for Home




localhost:4200/seller/products

Products

Choose file No file chosen

Upload

Table of Products

Photo	Code	Name	Type	Description	Price	Stock	Status	Action
	B0001	Chair	Furniture	Wooden chair	\$45.00	3	Available	Edit
	B0002	Table	Furniture	Family Dining Table	\$30.00	100	Unavailable	Edit
	B0003	Furniture	Furniture	Study Table	\$22.00	45	Available	Edit

23°C Cloudy



10/10 10-08-2022

BULK UPLOAD OPTION

localhost / 127.0.0.1 / ecommerce Shop For Home

localhost:4200/seller/product

Table of Products

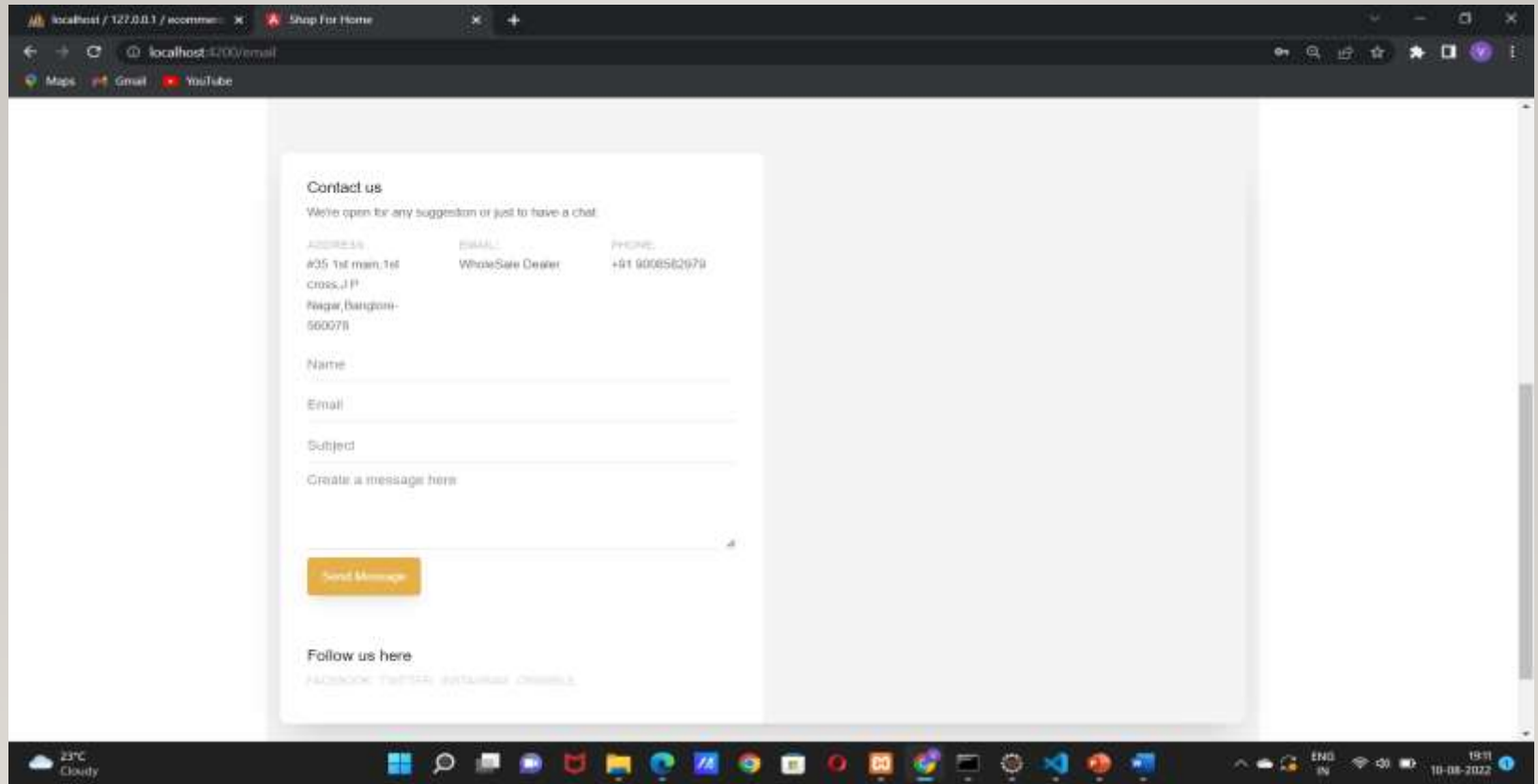
Code	Name	Type	Description	Price	Stock	Status	Action	Mail
B0001	Chair	Furniture	Wooden chair	\$45.00	3	Available	Edit	Email
	B0002	Table	Family Dining Table	\$30.00	100	Unavailable	Edit	Email
	B0008	Furniture	Study Table	\$22.00	45	Available	Edit	Email
C0002	Shirt	Clothing	Shirt	\$2.00	200	Available	Edit	Email
C0009	T-shirt	Clothing	T-shirt	\$9.00	10	Available	Edit	Email

23°C Cloudy

Windows Taskbar: File Explorer, Edge, Chrome, Mail, etc.

System Tray: ENG IN, 19:11, 10-08-2022

E-MAIL FUNCTION




E-MAIL TEMPLATE

localhost / 127.0.0.1 / ecommerce Shop For Home

localhost:4200/admin/user

Maps Gmail YouTube



USERS

Search

EmailID	Name of Users	Position	Command
shakun@gmail.com	Shakun	ROLE_CUSTOMER	Remove User
abc@gmail.com	abc	ROLE_CUSTOMER	Remove User
xyz@gmail.com	xyz	ROLE_CUSTOMER	Remove User
atg@gmail.com	atg	ROLE_MANAGER	

Previous 1 Next

23°C Cloudy

Windows taskbar icons: File Explorer, Edge, Chrome, etc.

ENG IN 10:11 10-08-2022

USER CRUD OPERATIONS BY ADMIN

localhost / 127.0.0.1 / ecommerce Shop For Home

localhost:4200/order

Maps Gmail YouTube

ORDERS

Order #	Customer Name	Customer Email	Customer phone	Shipping Address	Total	Order Date	Status	Action
59	xyz	xyz@gmail.com	8869532326	Banglore	\$110.00	Aug 9, 2022	New	Show Cancel Finish
57	abc	abc@gmail.com	4636353536	Mysore	\$9.00	Aug 9, 2022	New	Show Cancel Finish
62	xyz	xyz@gmail.com	8869532326	Banglore	\$40.00	Aug 9, 2022	Finished	Show

23°C Cloudy

Windows taskbar icons: File Explorer, Microsoft Edge, Google Chrome, etc.


System tray: ENG IN, 10:11, 10-09-2022

CUSTOMER ORDERS

localhost / 127.0.0.1 / ecomm... x Shop For Home

localhost:4200/discount

Maps Gmail YouTube



Coupons

Search

[Add Coupon](#)

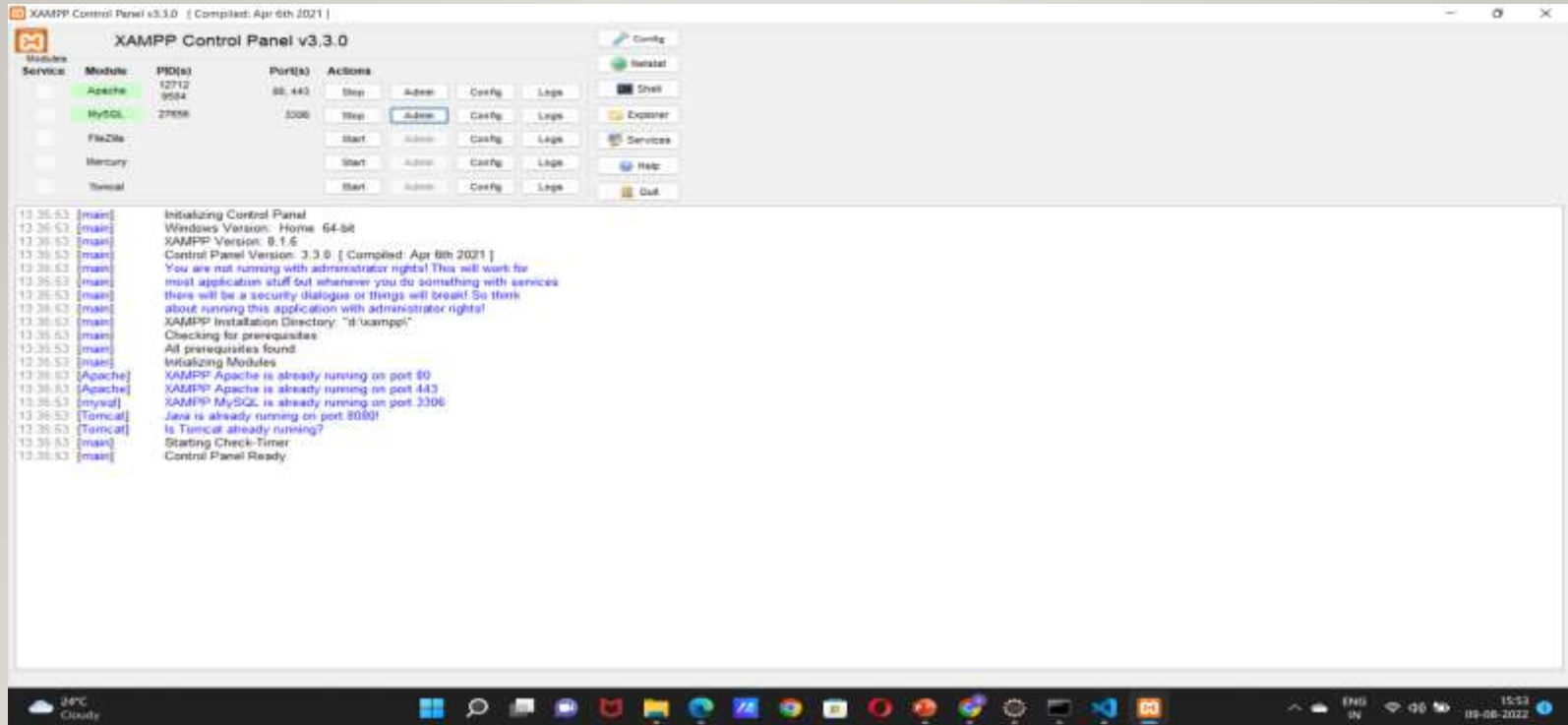
Couponcode	Action
80250	Delete
1232	Delete
0000	Delete
12345	Delete
88456	Delete

[Previous](#) [Next](#)

23°C Cloudy 19:12 10-08-2022

CUPON FUNCTION

DATABASE



XAMPP CONTROL PANEL

Shop For Home | localhost / 127.0.0.1 / ecommerce

localhost/phpmyadmin/index.php?route=/database/structure&db=ecommerce

phpMyAdmin

Recent - Favorites

- New
- ecommerce
 - New
 - cart
 - discount
 - hibernate_sequence
 - order_main
 - product_category
 - product_info
 - product_in_order
 - users
 - wishlist
- information_schema
- mysql
- performance_schema
- phpmyadmin
- test

Structure | SQL | Search | Query | Export | Import | Operations | Privileges | Routines | Events | Triggers | Designer

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> cart		8	MyISAM	latin1_swedish_ci	2.1 KIB	-
<input type="checkbox"/> discount		5	MyISAM	latin1_swedish_ci	6.1 KIB	-
<input type="checkbox"/> hibernate_sequence		9	MyISAM	latin1_swedish_ci	1.0 KIB	-
<input type="checkbox"/> order_main		8	MyISAM	latin1_swedish_ci	2.7 KIB	-
<input type="checkbox"/> product_category		7	MyISAM	latin1_swedish_ci	3.2 KIB	-
<input type="checkbox"/> product_info		10	MyISAM	latin1_swedish_ci	7.2 KIB	20 B
<input type="checkbox"/> product_in_order		10	MyISAM	latin1_swedish_ci	5.8 KIB	-
<input type="checkbox"/> users		4	MyISAM	latin1_swedish_ci	5.9 KIB	108 B
<input type="checkbox"/> wishlist		5	MyISAM	latin1_swedish_ci	6.2 KIB	-
9 tables	Sum	66	InnoDB	utf8mb4_general_ci	30.1 KIB	300 B

☐ Check all / ☐ Check tables having overhead With selected:

Create new table

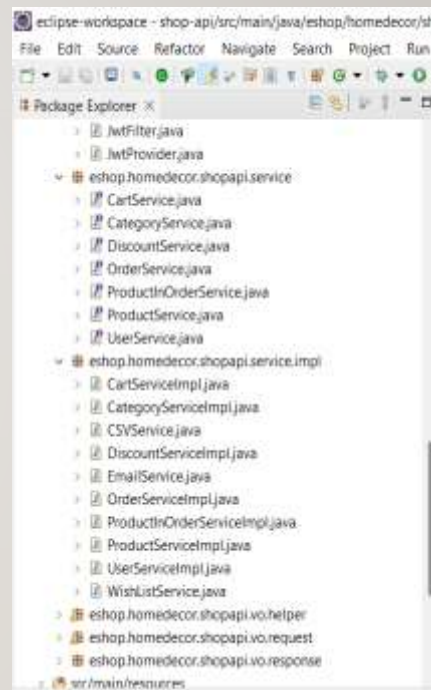
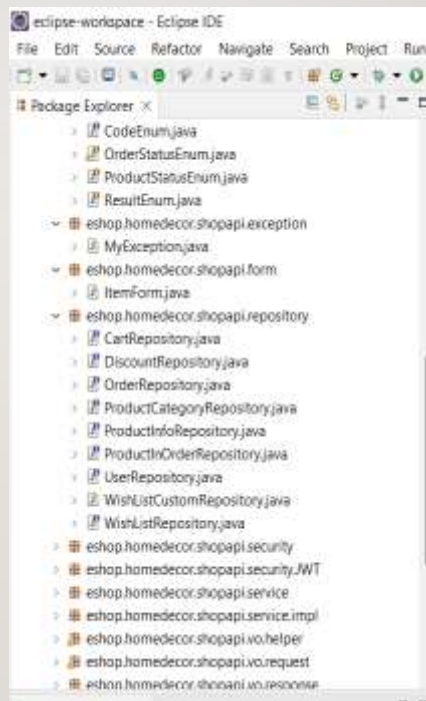
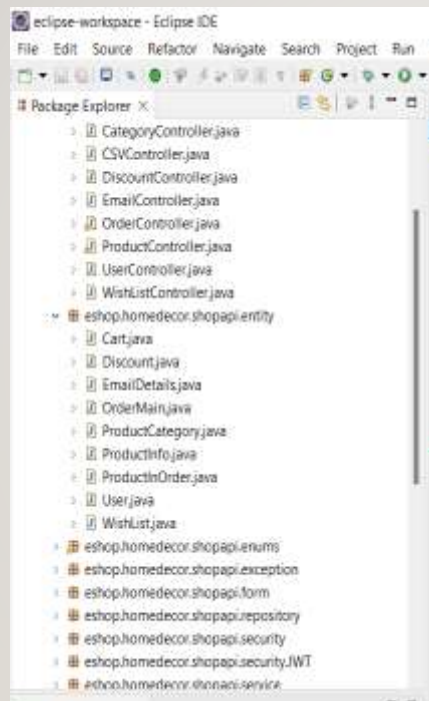
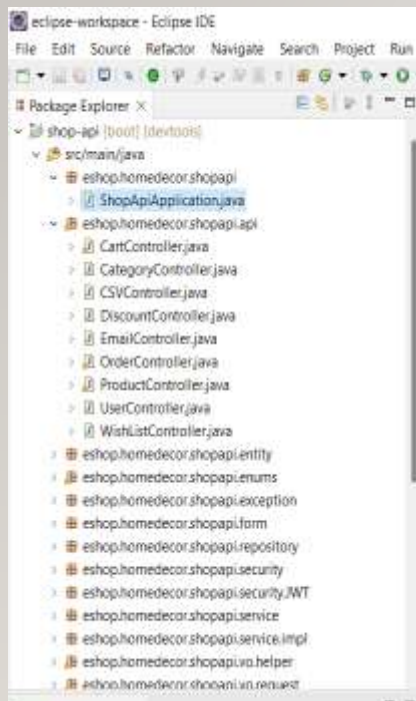
Table name: Number of columns:

Console

24°C Cloudy | 15:54 09-08-2022

MySQL

SPRING BOOT



CLOUD DEPLOYMENT

EC2 INSTANCE CREATED

The screenshot displays the AWS Management Console for the 'us-east-1' region. The 'Instances' page shows a single instance named 'capstone' with ID 'i-0dcbc0556f4ecee9e', which is in the 'Running' state. The instance is of type 't2.micro' and is located in the 'us-east-1d' Availability Zone. The public IPv4 address is 'ec2-3-83-206-194.compute-1.amazonaws.com'.

Instances (1/1)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
capstone	i-0dcbc0556f4ecee9e	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-3-83-206-

Instance: i-0dcbc0556f4ecee9e (capstone)

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

Instance summary

Instance ID i-0dcbc0556f4ecee9e (capstone)	Public IPv4 address 3.83.206.194 open address	Private IPv4 addresses 172.31.80.126
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-83-206-194.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-80-126.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-80-126.ec2.internal	

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RUNNING THE EC2 IN THE COMMAND PROMPT

```
root@ip-172-31-80-126:/var/www/html
Microsoft Windows [Version 10.0.22000.795]
(c) Microsoft Corporation. All rights reserved.

C:\Users\VARSHITHA>ssh -i "capstonekey.pem" ec2-user@ec2-3-83-206-194.compute-1.amazonaws.com
The authenticity of host 'ec2-3-83-206-194.compute-1.amazonaws.com (3.83.206.194)' can't be established.
ECDSA key fingerprint is 94A256:44gXlAkUwvHt5RgIBt199etjXZu15Mc0wXlB8zQ.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-3-83-206-194.compute-1.amazonaws.com,3.83.206.194' (ECDSA) to the list of known hosts.
```

```
  _ _ _
 _(_)_/ /
Amazon Linux 2 AMI
```

```
https://aws.amazon.com/amazon-linux-2/
1 package(s) needed for security, out of 10 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-80-126 ~]$ sudo su
[root@ip-172-31-80-126 ec2-user]# yum
loaded plugins: extras_suggestions, langpacks, priorities, update-motd
You need to give some command
Usage: yum [options] COMMAND
```

List of Commands:

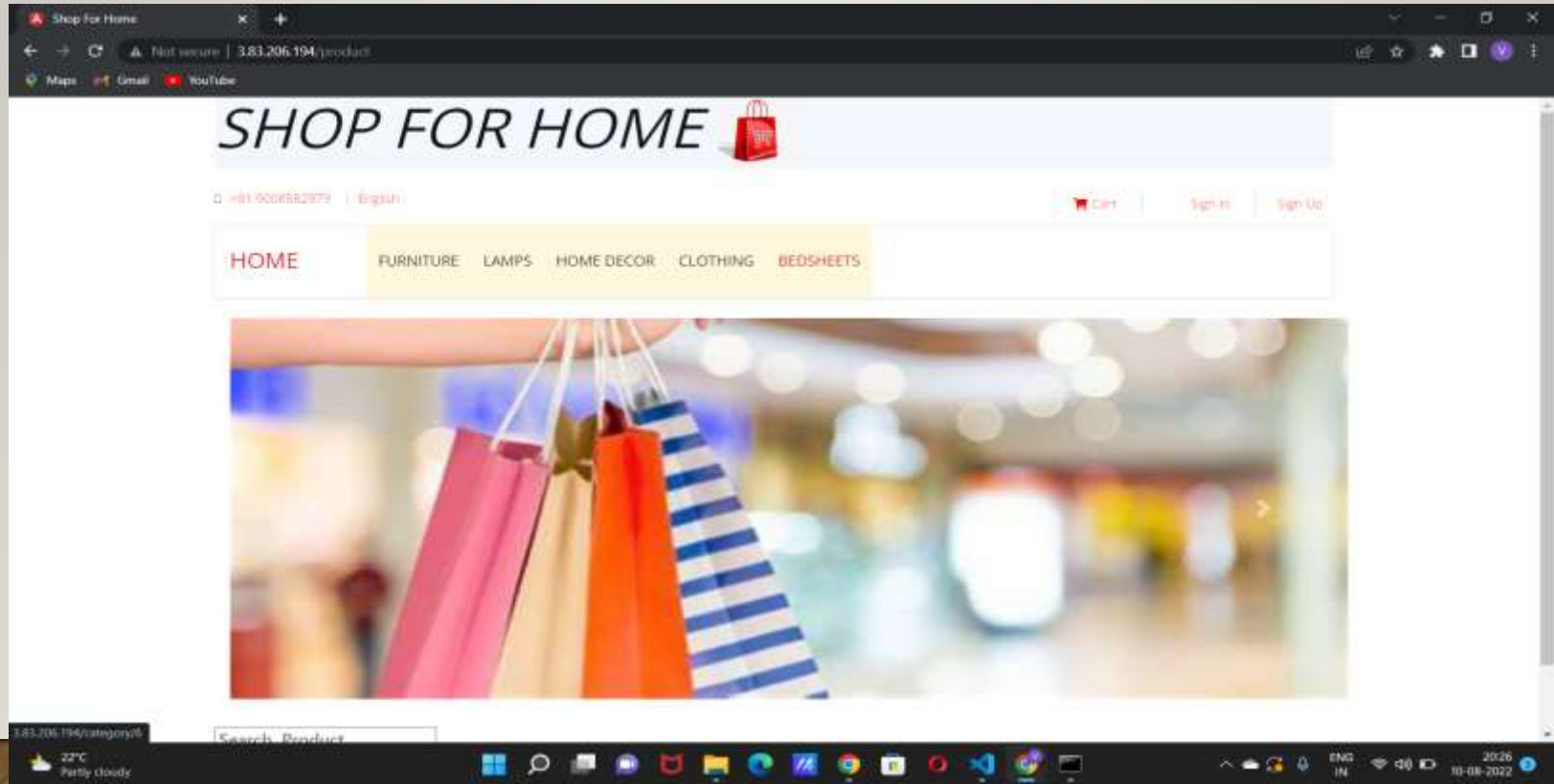
check	Check for problems in the rpmdb
check-update	Check for available package updates
clean	Remove cached data
deplist	List a package's dependencies
distribution-synchronization	Synchronize installed packages to the latest available versions
downgrade	downgrade a package
erase	Remove a package or packages from your system
fs	Acts on the filesystem data of the host, mainly for removing docs/languages for minimal hosts.
filesystem	Creates filesystem snapshots, or lists/deletes current snapshots.
groups	Display, or use, the groups information
help	Display a helpful usage message
history	Display, or use, the transaction history
info	Display details about a package or group of packages
install	Install a package or packages on your system
langavailable	Check available languages
langinfo	List languages information
langinstall	Install appropriate language packs for a language
langlist	List installed languages
langremove	Remove installed language packs for a language
list	List a package or groups of packages
load-transaction	Load a saved transaction from filename
makecache	Generate the metadata cache
provides	Find what package provides the given value

22°C
Partly Cloudy



ENG
IN
22:36
10-03-2022

FRONTEND SERVER TEMPLATE



CREATION OF LOAD BALANCER

The screenshot shows the AWS Management Console interface for creating a load balancer. The top navigation bar includes the AWS logo, a search bar, and the user's account information. The left sidebar contains navigation links for various AWS services. The main content area displays the 'Create Load Balancer' page, which includes a table of existing load balancers and a detailed configuration section for the selected load balancer.

Table: Load balancers

Name	DNS name	State	VPC ID	Availability Zones	Type	Create
LoadBalancer	LoadBalancer-537403739.us-east-1.elb.amazonaws.com	Provisioning	vpc-0108e17f52f32c3d	us-east-1f, us-east-1b, ...	application	August

Load balancer: LoadBalancer

Basic Configuration

Name	LoadBalancer
ARN	arn:aws:elasticloadbalancing:us-east-1:445807430403:loadbalancer/app/LoadBalancer/3cb58bdc4274e40
DNS name	LoadBalancer-537403739.us-east-1.elb.amazonaws.com (A Record)
State	Provisioning
Type	application
Scheme	Internet-facing
IP address type	IPv4

[Edit IP address type](#)

mybucketstore - S3 bucket x Instances | EC2 Management Co... x Target groups | EC2 Management Co... x

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#TargetGroups

Map Gmail YouTube

aws Services Search for services, features, blogs, docs, and more [All+5]

N. Virginia greatlearningcompanyvanhithad @ 4459-0743-0403

Successfully created target group: Target

EC2 > Target groups

Target groups (1) info

Search or filter target groups

	Name	ARN	Port	Protocol	Target type	Load balancer
<input type="checkbox"/>	Target	arn:aws:elasticloadbalancing:us-east-1:4459-0743-0403:targetgroup/Target/...	80	HTTP	Instance	None associated

0 target groups selected

Select a target group above.

Feedback English (US)

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22°C Partly cloudy

2:50 PM 10-08-2022

TARGET GROUP (to create application load balancer, we have to create this)

mybucketapstone - S3 bucket | Launch templates (EC2 Manage) | S3 Management Console | Shop For Home

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchTemplates

Maps | Gmail | YouTube

Services | Search for services, features, blogs, docs, and more | [Alt+S] | H. Virginia | greatlearningcompanyvarshitad @ 4459-0743-0403

New EC2 Experience

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

Instances

Instances **Now**
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances **Now**
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images

AMIs **Now**
AMI Catalog

EC2 > Launch templates

Launch templates (1) info

Filter by tags or properties or search by keyword

Actions Create launch template

Launch template ID	Launch template name	Default version	Latest version
lt-068615e9067a7a84b	Template	1	1

Select a launch template above

Feedback Looking for language selection? Find it in the new Unified Settings

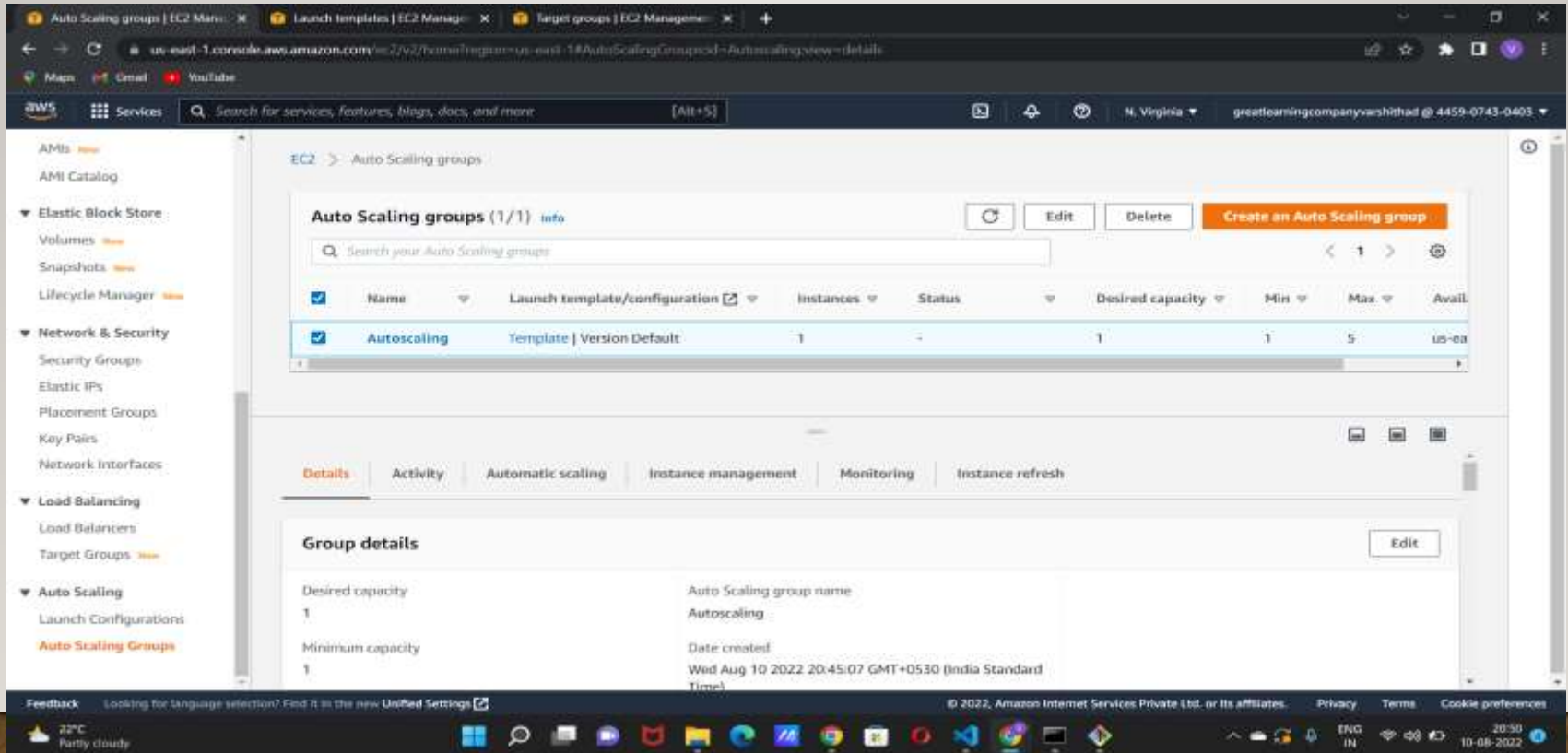
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21:19 10-08-2022

LAUNCH TEMPLATE

CREATION OF AUTOSCALING GROUPS



The screenshot shows the AWS Management Console interface for Auto Scaling Groups. The left sidebar contains navigation links for various AWS services. The main content area shows the 'Auto Scaling groups (1/1)' page with a table listing the groups. Below the table, the 'Details' tab is selected, showing the 'Group details' for the 'Autoscaling' group.

Auto Scaling groups (1/1)

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Avail
Autoscaling	Template Version Default	1	-	1	1	5	US-03

Group details

Desired capacity	1
Minimum capacity	1
Auto Scaling group name	Autoscaling
Date created	Wed Aug 10 2022 20:45:07 GMT+0530 (India Standard Time)

Amazon S3 Management Console interface showing the Buckets page. The left sidebar contains navigation options like Buckets, Access Points, and Storage Lens. The main content area displays an account snapshot and a list of buckets.

Account snapshot

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

[View Storage Lens dashboard](#)

Buckets (4) [Info](#)

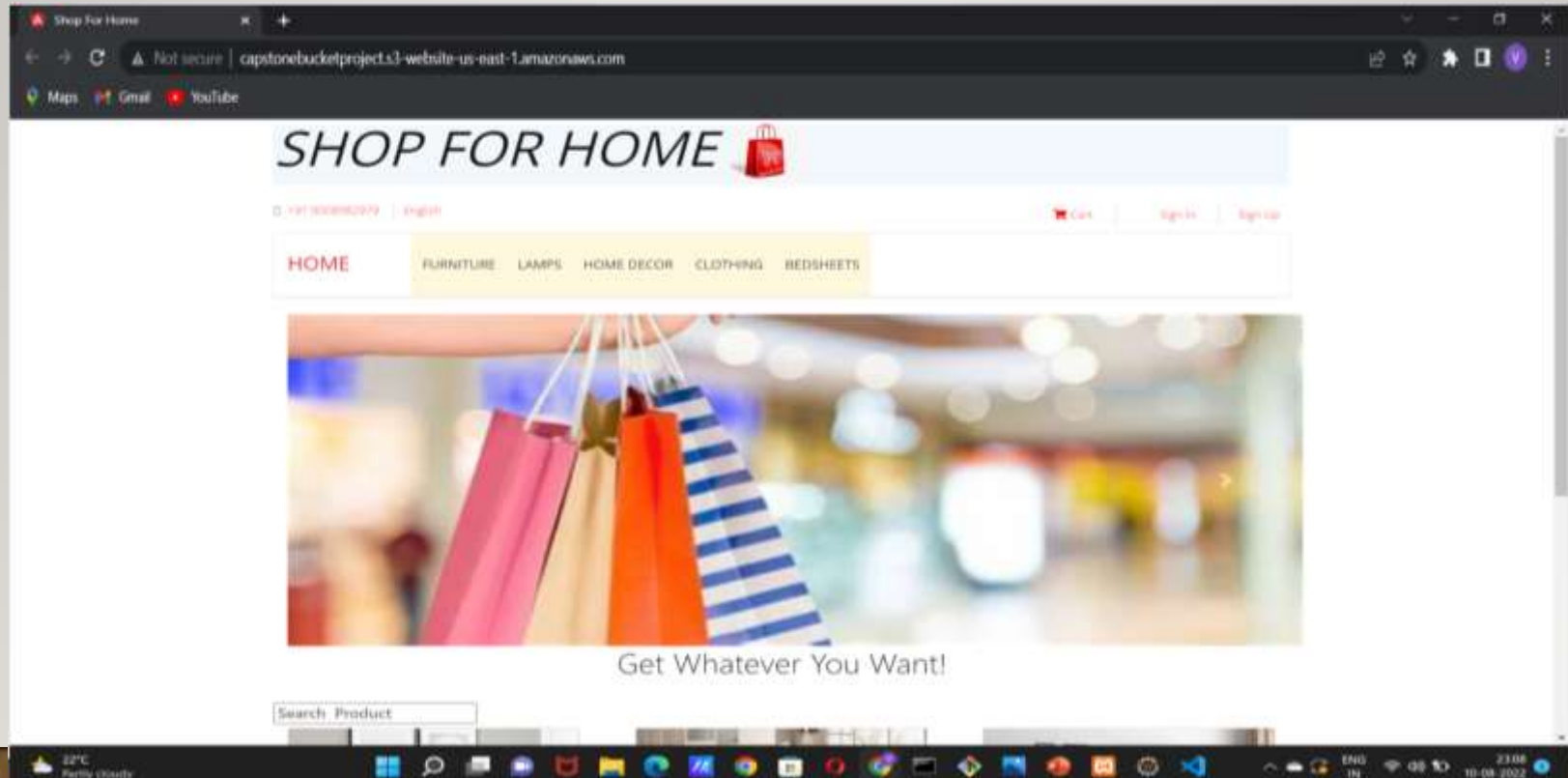
Buckets are containers for data stored in S3. [Learn more](#)

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Name	AWS Region	Access	Creation date
bucketcapstoneproject	US East (N. Virginia) us-east-1	Objects can be public	August 10, 2022, 22:49:59 (UTC+05:30)
capstonebucketproject	US East (N. Virginia) us-east-1	Public	August 10, 2022, 20:59:38 (UTC+05:30)
capstonefinalproject	US East (N. Virginia) us-east-1	Public	August 10, 2022, 20:10:08 (UTC+05:30)
mybucket;capstone	US East (N. Virginia) us-east-1	Objects can be public	August 10, 2022, 22:54:21 (UTC+05:30)

CREATION OF S3 BUCKET

OUTPUT AFTER DEPLOYMENT



CONCLUSION

- ① We have created an e-commerce web application which has been built for selling products online.
- ① The Shop For Home Application described gives a range of aspects that are designed to make the consumer extra comfortable.
- ① We have discovered fundamentals of Angular, Web Framework, Devops and Security in AWS & Implemented it in developing an Shop For Home web application.

**THANK
YOU**