

SHOP FOR HOME

JAVA AWS SD C2 GROUP - 3



Under the guidance of Praven Tej

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Abstract

- Shop for home is a popular ecommerce website which fulfill the availability of household needs where consumers can directly buy products over the internet without an intermediate service.
- Provide interactive interface through which a user can interact with different areas of application easily
- Users can login to the website to shop the products for home essentials and it has the features of add to cart, wishlist , discount coupons, sort by cost and make orders for home.
- Manager of the website application can add coupons, bulk of products, able to search for malicious user and remove, get the stocks report and send acknowledgement mail to user if the stocks are less than 10 .



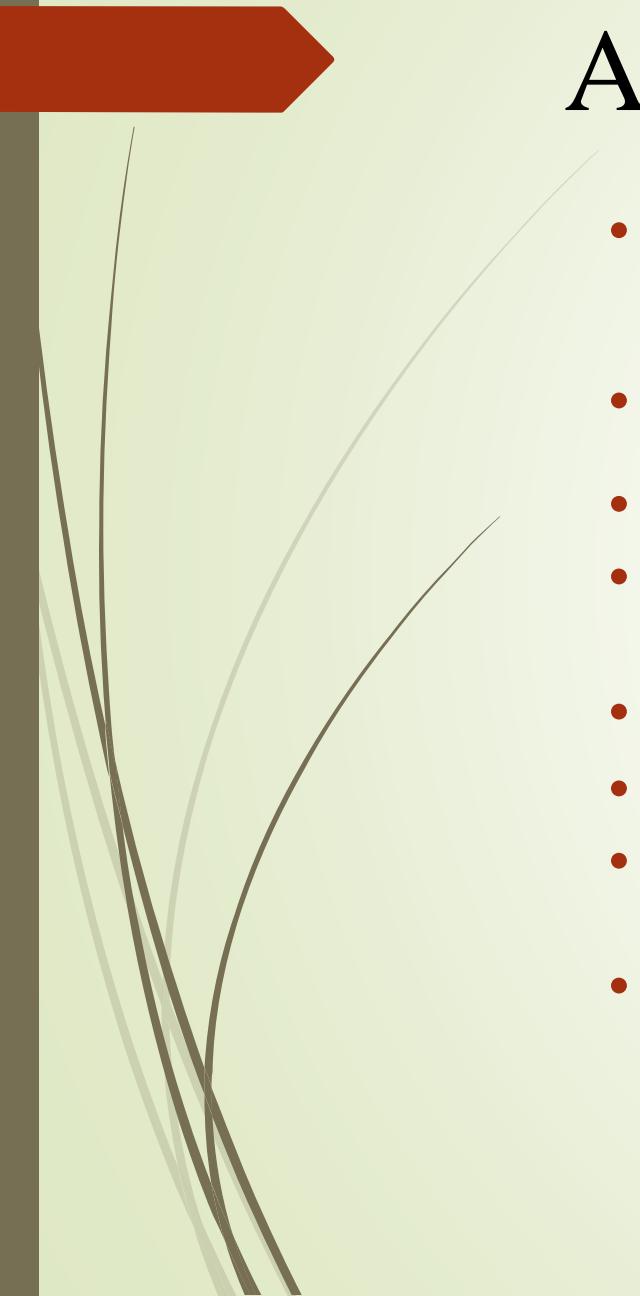
Introduction

- Now a days people are more interested in online shopping to handle the pandemic situation by maintaining social distance.
- To meet the interest of the people we developed an ecommerce application ShopForHome which provide the products needed for home.
- This application is implemented using Angular UI, Spring Boot microservices and MySQL Database.
- Deployed the application in EC2 instances in an autoscaling group behind an application load balancer, which prevents the issues of server down.



User Requirements

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



Admin Requirements

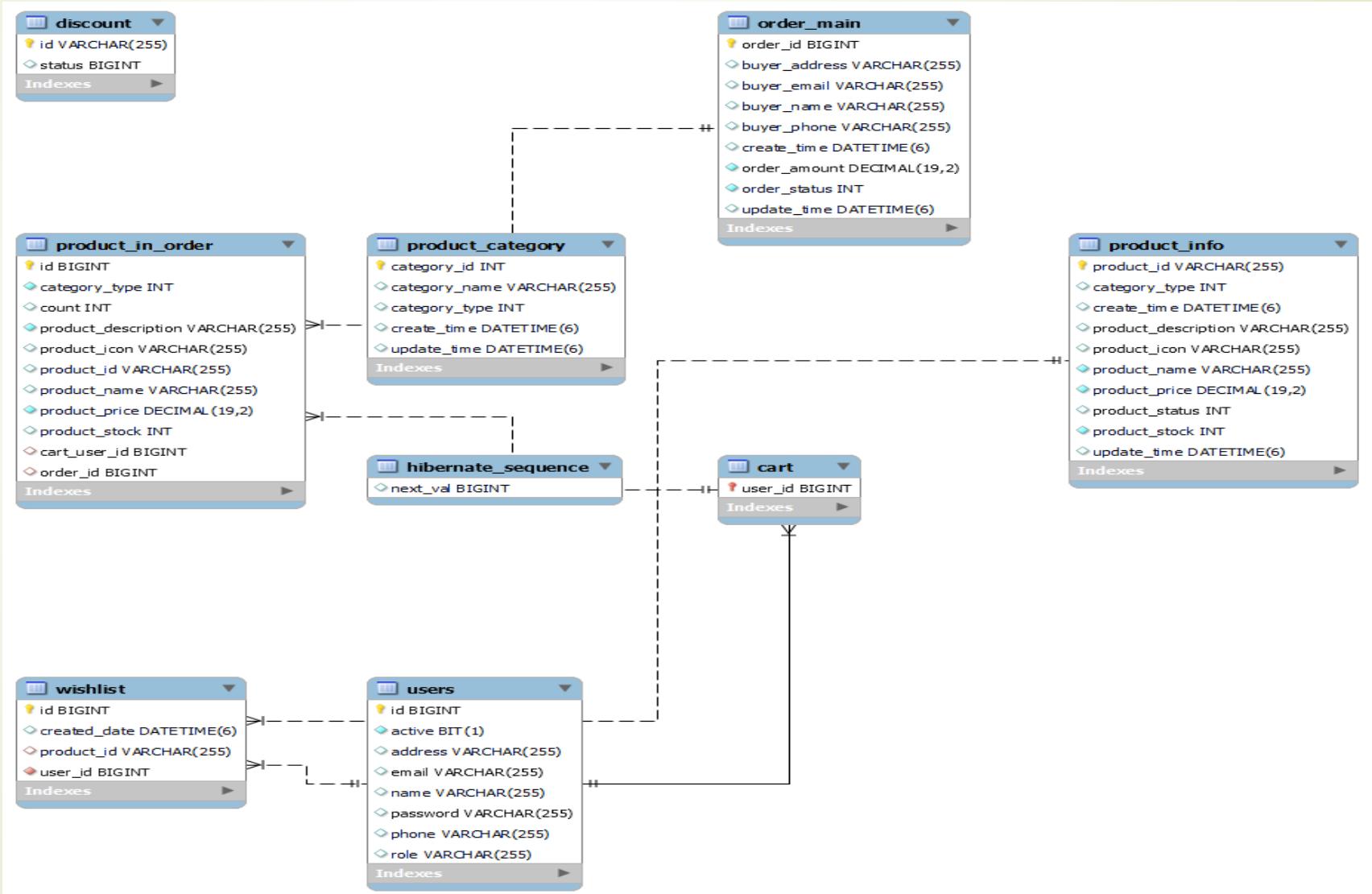
- As an Admin I should be able to login, Logout and Register into the application.
- As an Admin I should be able to perform CRUD on Users.
- As an Admin I should be able to Perform CRUD on the products.
- As an Admin I should be able to get bulk upload option to upload a csv for products details.
-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



Technologies used

- Html
- Bootstrap
- Java Script
- Angular JS
- Spring Boot
- MySQL
- Cloud Aws

Database schema



Git Repository

The screenshot shows a GitHub repository page for the user 'Archu9999' named 'shopforhome2'. The repository is public and described as a 'capstone project'. It contains 2 branches (master) and 0 tags. The commit history shows initial commits for 'Images', 'backend', 'frontend', '.gitignore', 'README.md', and 'database.pem' files, all made 10 hours ago by 'Archana Chowdary and Archana Chowdary msg'. The repository has 1 watch and 0 forks. It also lists releases, packages, and languages.

Archu9999/shopforhome2 · capstone project

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 2 branches 0 tags

Archana Chowdary and Archana Chowdary msg 38b998f 10 hours ago 2 commits

Images msg 10 hours ago
backend msg 10 hours ago
frontend msg 10 hours ago
.gitignore Initial commit 10 hours ago
README.md Initial commit 10 hours ago
database.pem msg 10 hours ago

README.md

shopforhome2

capstone project

About

capstone project

Readme

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Languages

30°C Partly cloudy

ENG IN 20:07 22-08-2022

S3 Bucket

The screenshot shows the AWS S3 Management Console homepage. At the top, there's a navigation bar with tabs for 'Meet - eyg-ocnw-wun', 'AWS lab: Program Overview - Great...', 'AWS (Hands-On-Lab)', and 'S3 Management Console'. Below the navigation bar is a search bar and a global menu. The main content area features a large heading 'Amazon S3' with the subtext 'Store and retrieve any amount of data from anywhere'. A descriptive paragraph explains that Amazon S3 is an object storage service. To the right, there are two call-to-action boxes: 'Create a bucket' (orange button) and 'Pricing' (link). Below these, there's a section titled 'How it works' with a video thumbnail titled 'Introduction to Amazon S3'. The bottom of the page includes a footer with links for 'Feedback', 'Language selection', 'Privacy', 'Terms', and 'Cookie preferences', along with copyright information and system status icons.

Meet - eyg-ocnw-wun AWS lab: Program Overview - Great... AWS (Hands-On-Lab) S3 Management Console

s3.console.aws.amazon.com/s3/get-started?region=us-east-1

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

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

Create bucket

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

[View pricing details](#)

Introduction to Amazon S3

Copy link

How it works

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

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A screenshot of a web browser showing the AWS S3 console at s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1. The browser has multiple tabs open, including "Meet - eyg-ocnw-wun", "AWS lab: Program Overview - Great Le", "AWS (Hands-On-Lab)", and "S3 bucket". The main content is the "Create bucket" page under "Amazon S3 > Buckets > Create bucket".

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 [Info](#)

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.

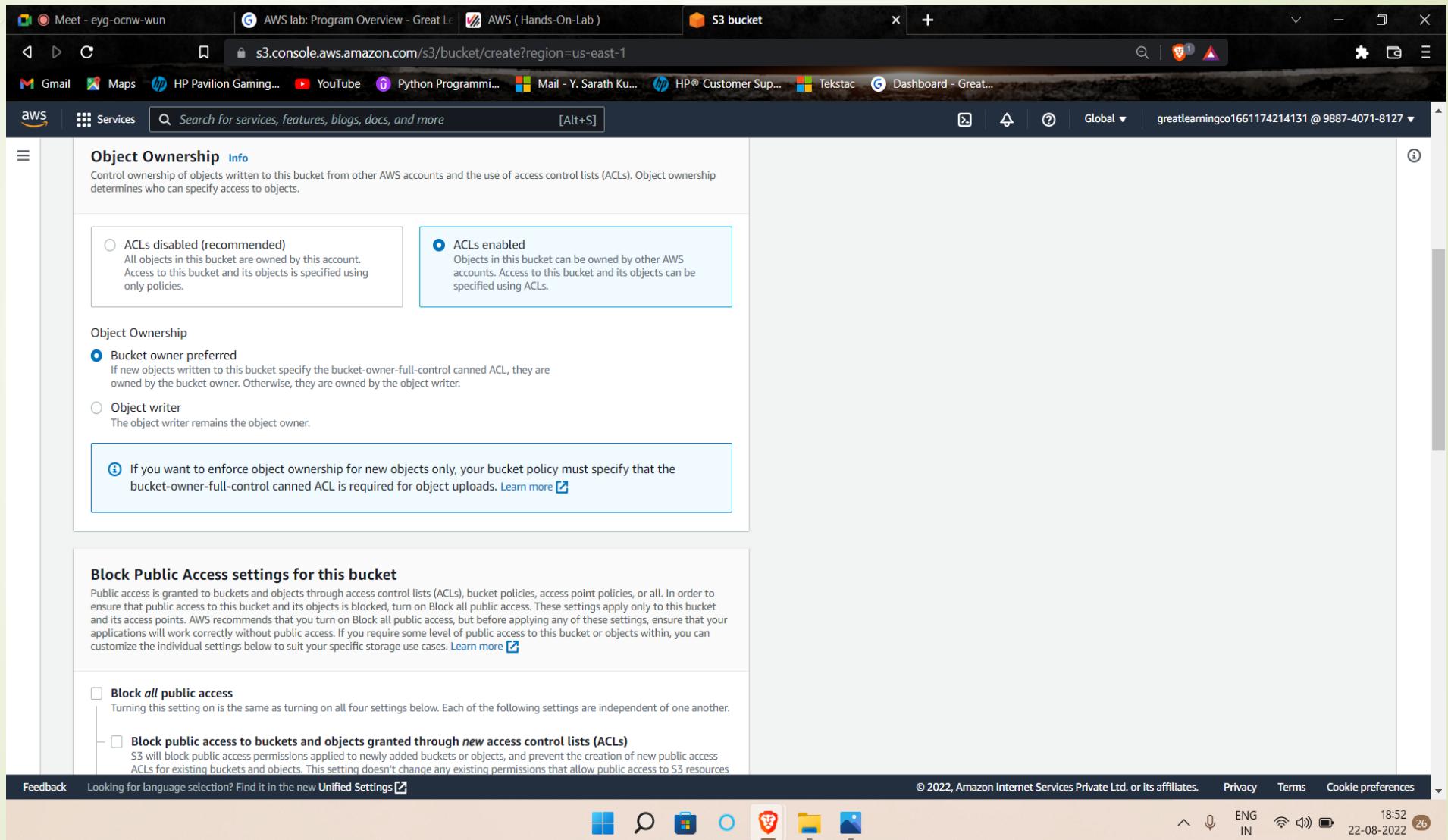
ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

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

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18:52 22-08-2022 26

Enable ACLs



The screenshot shows the AWS S3 bucket creation console. The URL in the browser is `s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1`. The main content area is titled "Object Ownership". It contains two radio button options: "ACLs disabled (recommended)" and "ACLs enabled". The "ACLs enabled" option is selected and highlighted with a blue border. Below this, there are three sections: "Object Ownership" (selected), "Bucket owner preferred" (selected), and "Object writer". A note below "Bucket owner preferred" states: "If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer." A callout box points to this note with the text: "If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)". Below this is a section titled "Block Public Access settings for this bucket". It includes a note about public access being granted through ACLs, bucket policies, access point policies, or all. It also includes two checkboxes: "Block all public access" and "Block public access to buckets and objects granted through new access control lists (ACLs)". The bottom of the page includes standard AWS footer links and a navigation bar.

Clear the check mark of Block all public access and check the acknowledge statement

The screenshot shows a browser window titled "AWS lab: Program Overview - Great Learning" with the URL "s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1". The main content area is titled "Block Public Access settings for this bucket". It contains a warning message: "Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases." Below this, there is a section titled "Block all public access" which is currently unchecked. Underneath it are four sub-options, each with a descriptive text and an unchecked checkbox:

- Block public access to buckets and objects granted through new access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

At the bottom of the form, there is a warning icon with the text: "Turning off block all public access might result in this bucket and the objects within becoming public. AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting." Below this, there is a checkbox labeled "I acknowledge that the current settings might result in this bucket and the objects within becoming public." which is checked.

At the very bottom of the page, there are footer links for "Feedback", "Looking for language selection? Find it in the new Unified Settings", "© 2022, Amazon Internet Services Private Ltd. or its affiliates.", "Privacy", "Terms", and "Cookie preferences". On the right side, there are system status icons for battery, signal, and volume, along with the time "18:52" and date "22-08-2022".

AWS lab: Program Overview - Great Le... AWS (Hands-On-Lab) shopforhome-products - S3 buck...

s3.console.aws.amazon.com/s3/buckets/shopforhome-products?region=us-east-1&tab=objects

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Amazon S3

Buckets

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

Block Public Access settings for this account

Storage Lens

Dashboards AWS Organizations settings

Feature spotlight (3)

AWS Marketplace for S3

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Create new folder in S3 bucket

The screenshot shows the AWS S3 Management Console interface. The left sidebar lists various services like 'Buckets', 'Object Lambda Access Points', and 'Storage Lens'. The main content area is titled 'Create folder' and contains instructions about using folders to group objects. A warning message states that a bucket policy might block folder creation if specific conditions are met. Below this, a 'Folder' section has a 'Folder name' input field containing 'products/'. Under 'Server-side encryption', it says 'The following settings apply only to the new folder object and not to the objects contained within it.' A radio button for 'Disable' is selected. At the bottom, there are links for 'Feedback', 'Unified Settings', and copyright information.

Get hands-on guidance on how to get started with S3 Intelligent-Tiering and experience automatic storage cost savings.

Create folder Info

Use folders to group objects in buckets. When you create a folder, S3 creates an object using the name that you specify followed by a slash (/). This object then appears as folder on the console. [Learn more](#)

Your bucket policy might block folder creation
If your bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, you will not be able to create a folder using this configuration. Instead, you can use the [upload configuration](#) to upload an empty folder and specify the appropriate settings.

Folder

Folder name

products/

Folder names can't contain "/". See rules for naming

Server-side encryption

The following settings apply only to the new folder object and not to the objects contained within it.

Server-side encryption

Disable

Enable

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Meet - eyg-ocnw-wun | AWS lab: Program Overview - Great Le | AWS (Hands-On-Lab) | shopforhome-products - S3 buck X +

s3.console.aws.amazon.com/s3/buckets/shopforhome-products?region=us-east-1&tab=objects

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aws Services Search for services, blogs, docs, and more [Alt+S]

Amazon S3 X

Successfully created folder "products".
Operation successfully completed.

Buckets

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

Block Public Access settings for this account

▼ Storage Lens

- Dashboards
- AWS Organizations settings

Feature spotlight 3

► AWS Marketplace for S3

Amazon S3 > Buckets > shopforhome-products

shopforhome-products Info

Objects Properties Permissions Metrics Management Access Points

Objects (1)

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](#)

C Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	products/	Folder	-	-	-

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

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The screenshot shows the AWS S3 console interface. A success message at the top indicates that a folder named 'products' was successfully created. The main area displays the contents of the 'shopforhome-products' bucket, which currently contains one object: a folder named 'products/'. The interface includes navigation links for Buckets, Objects, Properties, Permissions, Metrics, Management, and Access Points. Below the main content, there are sections for Block Public Access settings, Storage Lens dashboards, and AWS Organizations settings. A Feature spotlight section is also present. The bottom of the screen shows standard browser controls and a footer with copyright information and system status indicators.

Meet - eyg-ocnw-wun

AWS lab: Program Overview - Great Le...

AWS (Hands-On-Lab)

S3 Management Console

s3.console.aws.amazon.com/s3/upload/shopforhome-products?region=us-east-1&prefix=products/

Gmail Maps HP Pavilion Gaming... YouTube Python Programming Mail - Y. Sarath Ku... HP® Customer Sup... Tekstac Dashboard - Great...

Services Search for services, features, blogs, docs, and more [Alt+S]

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](#).

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

Remove Add files Add folder

Find by name < 1 2 >

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AWS lab: Program Overview - Great Le AWS (Hands-On-Lab) S3 Management Console

s3.console.aws.amazon.com/s3/upload/shopforhome-products?region=us-east-1&prefix=products/

Gmail Maps HP Pavilion Gaming... YouTube Python Programmi... Mail - Y. Sarath Ku... HP® Customer Sup... Tekstac Dashboard - Great...

Services Search for services, features, blogs, docs, and more [Alt+S]

Permissions

Grant public access and access to other AWS accounts.

Access control list (ACL)

Grant basic read/write permissions to other AWS accounts. [Learn more](#)

Info AWS recommends using S3 bucket policies or IAM policies for access control. [Learn more](#)

Access control list (ACL)

Choose from predefined ACLs
 Specify individual ACL permissions

Predefined ACLs

Private (recommended)
Only the object owner will have read and write access.

Grant public-read access
Anyone in the world will be able to access the specified objects. The object owner will have read and write access. [Learn more](#)

Warning **Granting public-read access is not recommended**
Anyone in the world will be able to access the specified objects. [Learn more](#)

I understand the risk of granting public-read access to the specified objects.

Properties

Specify storage class, encryption settings, tags, and more

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AWS Management Console - S3 Management Console

s3.console.aws.amazon.com/s3/upload/shopforhome-products?region=us-east-1&prefix=products/

Gmail Maps HP Pavilion Gaming... YouTube Python Programmi... Mail - Y. Sarath Ku... HP® Customer Sup... Tekstac Dashboard - Great...

Services Search for services, features, blogs, docs, and more [Alt+S]

Upload succeeded

View details below.

ss://shopforhome-products/products/ 20 files, 1.7 MB (100.00%) 0 files, 0 B (0%)

Files and folders Configuration

Files and folders (20 Total, 1.7 MB)

Find by name

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

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Creation of EC2 Instances

Click on launch instance

The screenshot shows the AWS EC2 Management Console interface. The left sidebar has a 'New EC2 Experience' toggle and sections for EC2 Dashboard, Instances (with 'Instances New' highlighted), and Images. The main area displays 'Resources' for the US East (N. Virginia) Region, showing 0 instances (running), 0 dedicated hosts, 0 elastic IPs, 0 instances, 0 key pairs, 0 load balancers, 0 placement groups, 1 security group, 0 snapshots, and 0 volumes. A tooltip suggests using the AWS Launch Wizard for Microsoft SQL Server Always On availability groups. Below this is the 'Launch instance' section, which includes a 'Launch instance' button and a 'Migrate a server' button. To the right, the 'Service health' section shows the region as 'US East (N. Virginia)' and a status message: 'This service is operating normally'. The top navigation bar shows the URL 'us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Home:' and the AWS logo. The bottom navigation bar includes links for Feedback, Unified Settings, Copyright notice, Privacy, Terms, and Cookie preferences.

MySQL Instance

The screenshot shows the AWS EC2 Management Console interface for launching a new instance. The browser tab is titled "AWS lab: Program Overview - Great Learning" and the URL is "us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances:". The search bar at the top says "Search for services, features, blogs, docs, and more". The main content area is titled "Launch an instance" and includes sections for "Name and tags", "Application and OS Images (Amazon Machine Image)", and "Summary". The "Summary" section shows the following configuration:

- Number of instances: 1
- Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI... (ami-090fa75af13c156b4)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

A message at the bottom left states: "Free tier: In your first year includes 750 hours of compute usage for t2.micro instances". At the bottom right are "Cancel" and "Launch instance" buttons.

At the very bottom of the page, there are links for "Feedback", "Unified Settings", "© 2022, Amazon Internet Services Private Ltd. or its affiliates.", "Privacy", "Terms", and "Cookie preferences". The status bar at the bottom right shows "ENG IN", "22-08-2022", "19:17", and a battery icon.

Meet - eyg-ocnw-wun AWS lab: Program Overview - Great Le AWS (Hands-On-Lab) EC2 Management Console us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances: Gmail Maps HP Pavilion Gaming... YouTube Python Programmi... Mail - Y. Sarah Ku... HP® Customer Sup... Tekstac Dashboard - Great... Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia greatlearningco1661174214131 @ 9887-4071-8127 ▾

Application and OS Images (Amazon Machine Image)

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

Search our full catalog including 1000s of application and OS images

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type
ami-08d4ac5b634553e16 (64-bit (x86)) / ami-0888c389af05d881a (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description
Canonical, Ubuntu, 20.04 LTS, amd64 focal image build on 2022-06-10

Architecture
64-bit (x86) AMI ID
ami-08d4ac5b634553e16

Summary

Number of instances **1**

Software Image (AMI)
Canonical, Ubuntu, 20.04 LTS, ...read more
ami-08d4ac5b634553e16

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

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

Cancel Launch instance

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Meet - eyg-ocnw-wun AWS lab: Program Overview - Great Le AWS (Hands-On-Lab) EC2 Management Console us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances: Gmail Maps HP Pavilion Gaming... YouTube Python Programm... Mail - Y. Sarath Ku... HP® Customer Sup... Tekstac Dashboard - Great... Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia greatlearningco1661174214131 @ 9887-4071-8127 ▾

▼ Network settings [Get guidance](#)

VPC - required [Info](#)
vpc-0383ad20057286f30 (default)
172.31.0.0/16

Subnet Info
subnet-09bb9d92792d5b4483
VPC: vpc-0383ad20057286f30 Owner: 988740718127 Availability Zone: us-east-1e IP addresses available: 4091

Create new subnet

Auto-assign public IP [Info](#)
Enable

Firewall (security groups) [Info](#)
A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

Security group name - required
launch-wizard-1

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-:/()#@[]+=&;!\$*

Description - required [Info](#)
launch-wizard-1 created 2022-08-22T13:48:17.403Z

Inbound security groups rules

▼ Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 20.04 LTS, ...[read more](#)
ami-08d4ac5b634553e16

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

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

Cancel **Launch instance**

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Inbound security groups rules

- Security group rule 1 (TCP, 22, 0.0.0.0/0)
Type: ssh, Protocol: TCP, Port range: 22
Source type: Anywhere, Source: 0.0.0.0/0
- Security group rule 2 (TCP, 8080, 0.0.0.0/0)
Type: Custom TCP, Protocol: TCP, Port range: 8080
Source type: Anywhere, Source: 0.0.0.0/0
- Security group rule 3 (TCP, 3306, 0.0.0.0/0)

Summary

- Number of instances: 1
- Software Image (AMI): Canonical, Ubuntu, 20.04 LTS, ...
ami-08d4ac5b634553e16
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

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

Launch instance

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

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19:23 22-08-2022 26



The screenshot shows the AWS EC2 Management Console interface for launching a new instance. The left side of the screen has a large orange arrow pointing from left to right, indicating the progression of the steps.

Security group rules:

- Security group rule 3 (TCP, 3306, 0.0.0.0/0):
 - Type: Custom TCP
 - Protocol: TCP
 - Port range: 3306
 - Source type: Anywhere
 - Description: e.g. SSH for admin desktop
- Security group rule 4 (TCP, 4200, 0.0.0.0/0):
 - Type: Custom TCP
 - Protocol: TCP
 - Port range: 4200
 - Source type: Anywhere
 - Description: e.g. SSH for admin desktop

Summary:

- Number of instances: 1
- Software Image (AMI): Canonical, Ubuntu, 20.04 LTS, ...read more
ami-08d4ac5b634553e16
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

Free tier information:

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

Buttons:

- Cancel
- Launch instance

Page footer:

- Feedback
- Looking for language selection? Find it in the new Unified Settings
- © 2022, Amazon Internet Services Private Ltd. or its affiliates.
- Privacy
- Terms
- Cookie preferences

System tray icons:

- File
- Search
- Task View
- Network
- Power
- File Explorer
- File History
- Print

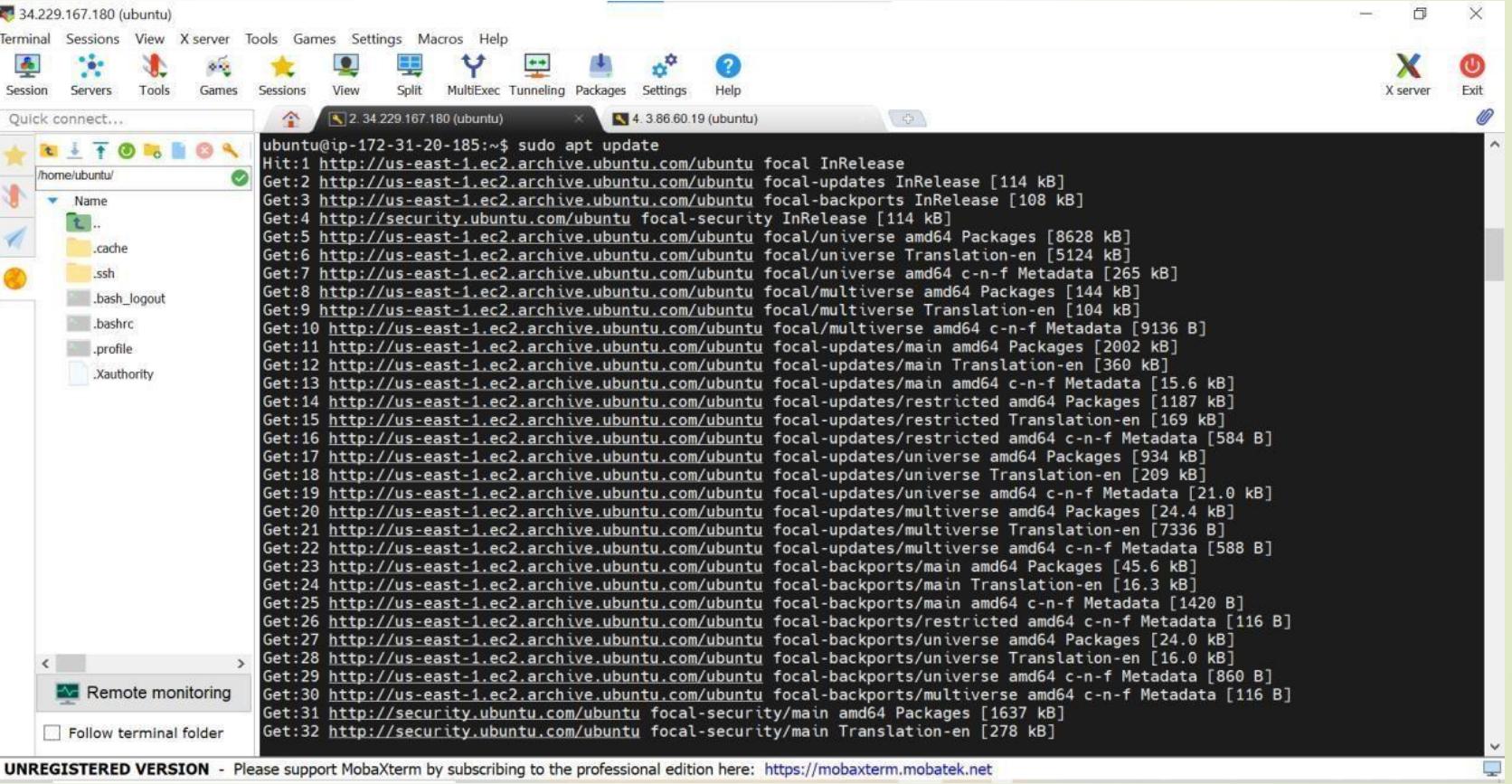
System status:

- ENG IN
- Wi-Fi
- Speaker
- Battery
- 19:23
- 22-08-2022
- 26

Meet - eyg-ocnw-wun AWS lab: Program Overview - Great Le AWS (Hands-On-Lab) Instances | EC2 Management Con + us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances: Gmail Maps HP Pavilion Gaming... YouTube Python Programmi... Mail - Y. Sarah Ku... HP® Customer Sup... Tekstac Dashboard - Great... AWS Services Search for services, features, blogs, docs, and more [Alt+S] Instances (1/1) Info C Connect Instance state Actions Launch instances < 1 > 1 Settings New EC2 Experience Tell us what you think EC2 Dashboard EC2 Global View Events Tags Limits Instances Instances New Instance Types Launch Templates Spot Requests Savings Plans Reserved Instances New Dedicated Hosts Scheduled Instances Capacity Reservations Images AMIs New AMI Catalog Instances (1/1) MySQL i-06cac4ce012948338 Pending t2.micro - No alarms + us-east-1e ec2-54-152-55-117.compute-1.amazonaws.com Public IPv4 DNS MySQL i-06cac4ce012948338 (MySQL) Details Security Networking Storage Status checks Monitoring Tags Instance summary Instance ID i-06cac4ce012948338 (MySQL) Public IPv4 address 54.152.55.117 | open address Private IPv4 addresses 172.31.50.178 IPv6 address - Instance state Pending Public IPv4 DNS ec2-54-152-55-117.compute-1.amazonaws.com | open address Hostname type IP name: ip-172-31-50-178.ec2.internal Private IP DNS name (IPv4 only) ip-172-31-50-178.ec2.internal Waiting for us-east-1.console.aws.amazon.com... © 2022, Amazon Internet Services Private Ltd. or its affiliates. Privacy Terms Cookie preferences ENG IN 19:23 22-08-2022 26

SSH2 MySQL Instance

► sudo apt update

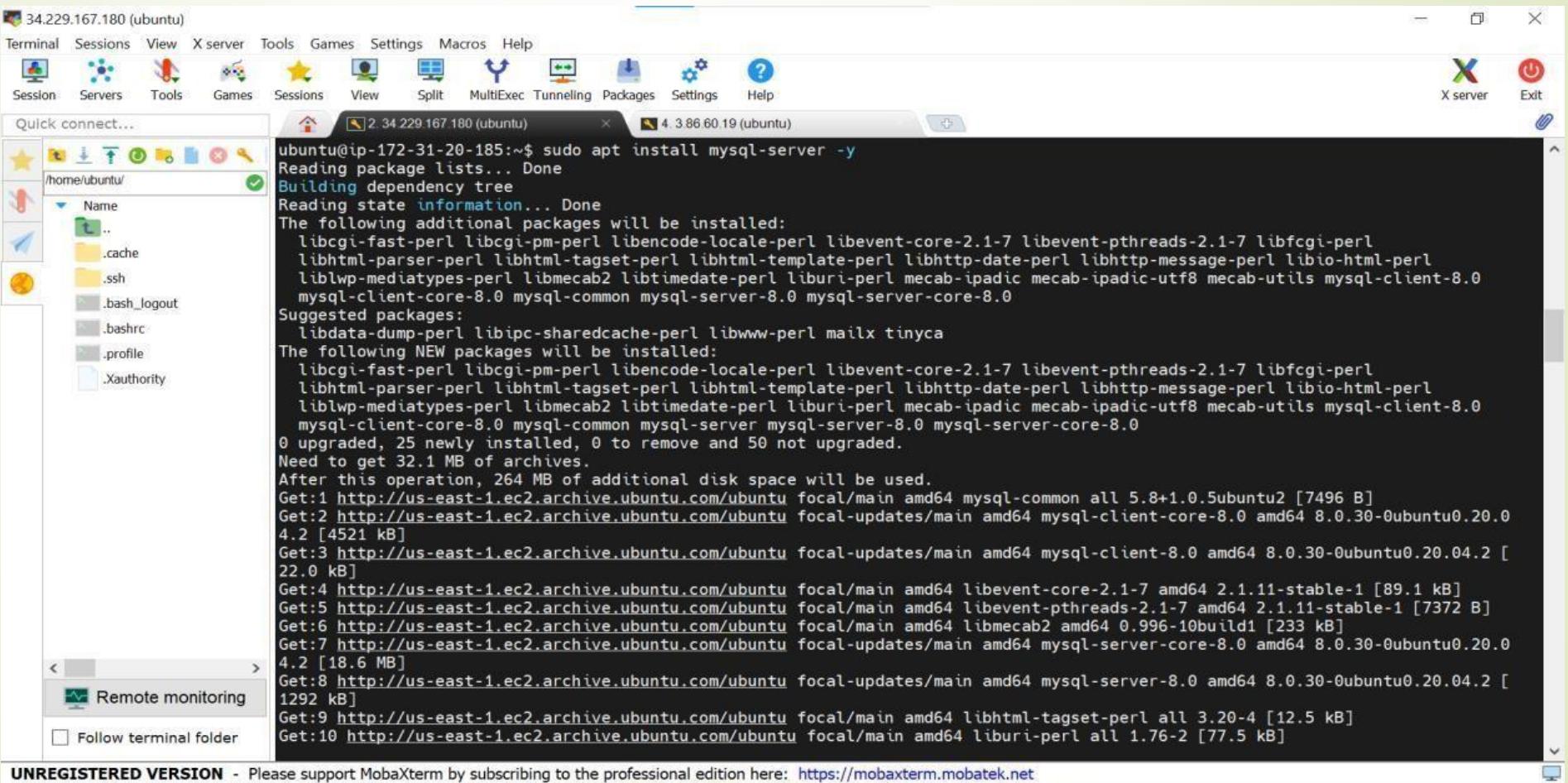


The screenshot shows a MobaXterm window titled "34.229.167.180 (ubuntu)" with two tabs open. The left tab shows a file browser with the path "/home/ubuntu/" and the right tab shows a terminal window. The terminal window displays the command "sudo apt update" followed by a list of package downloads from the "us-east-1.ec2.archive.ubuntu.com/ubuntu" repository. The list includes various packages and metadata files for the "focal" release, such as "focal-updates InRelease", "focal-security InRelease", and "focal/universe amd64 Packages". The total number of packages listed is 32.

```
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 [2002 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 Translation-en [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-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1637 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [278 kB]
```

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sudo apt install mysql-server -y



The screenshot shows a MobaXterm interface with two terminal windows. The left window is titled '34.229.167.180 (ubuntu)' and the right window is titled '4.3.86.60.19 (ubuntu)'. Both windows have tabs for 'Terminal', 'Sessions', 'View', 'X server', 'Tools', 'Games', 'Settings', 'Macros', and 'Help'. The right window also has icons for 'Session', 'Servers', 'Tools', 'Games', 'Sessions', 'View', 'Split', 'MultiExec', 'Tunneling', 'Packages', 'Settings', and 'Help'. The right window is active and displays the output of the command:

```
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 libtimedate-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 libtimedate-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-core-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]
```

At the bottom of the right window, there is a message: "UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>".

- sudo mysql
- CREATE USER ‘root’@’%’ IDENTIFIED BY ‘Chinna@127’ ;
- CREATE DATABASE ecommerce;
- GRANT ALL PRIVILEGES ON ecommerce.* TO ‘root’@’%’;
- exit
- sed "s/bind-address/#bind-address/" /etc/mysql/mysql.conf.d/mysqld.cnf > mysqld.cnf
- sudo mv mysqld.cnf /etc/mysql/mysql.conf.d/mysqld.cnf
- cd /etc/mysql/mysql.conf.d/
- vi mysqld.cnf remove # before bind-address in mysql-bind-address
- sudo /etc/init.d/mysql restart



```
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
X server Exit
Quick connect...
2.34.229.167.180 (ubuntu) 4.3.86.60.19 (ubuntu)
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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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)

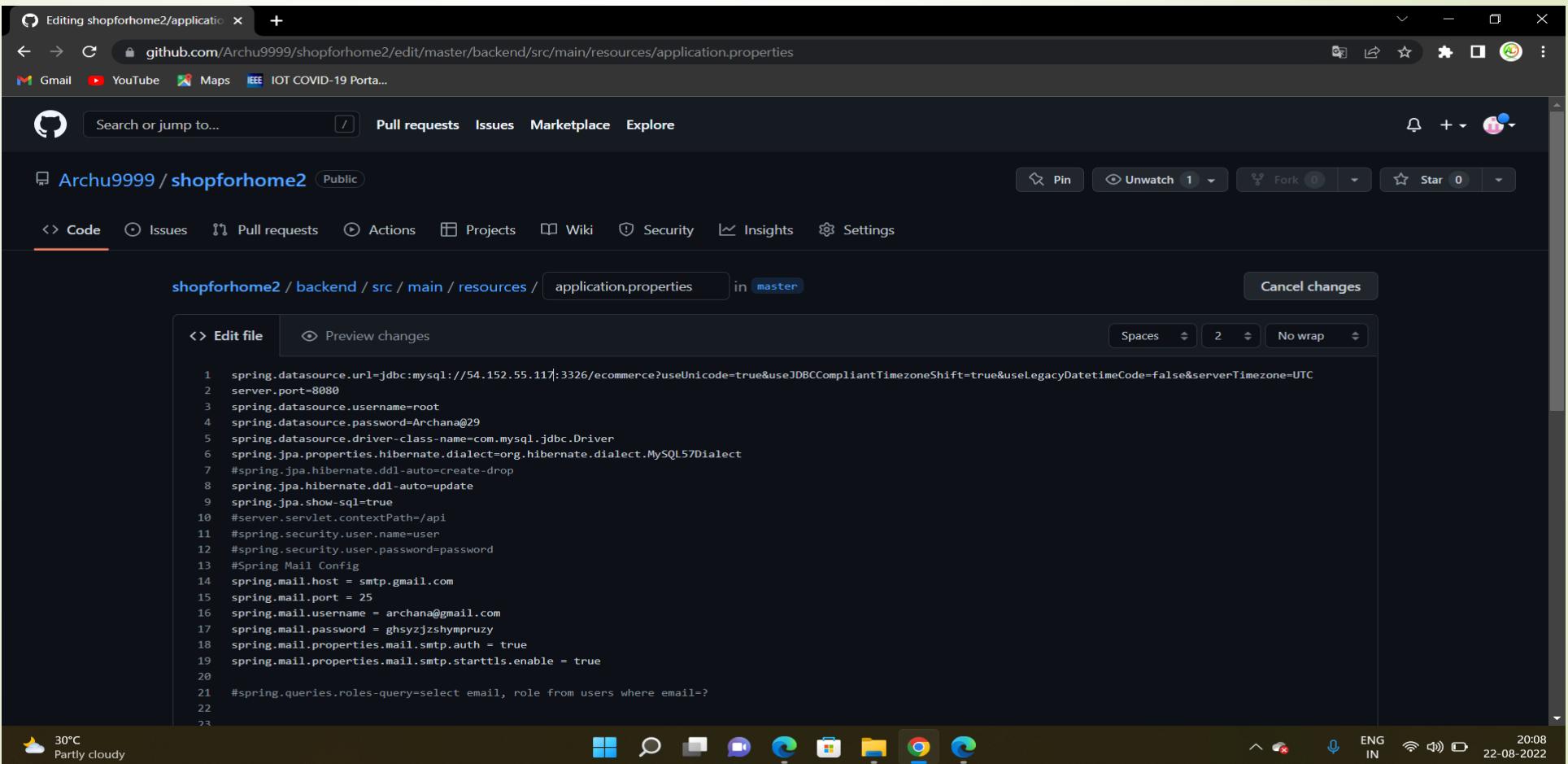
mysql> exit
Bye
ubuntu@ip-172-31-20-185:~$ sed "s/bind-address/#bind-address/" /etc/mysql/mysql.conf.d/mysqld.cnf > mysqld.cnf
ubuntu@ip-172-31-20-185:~$ sudo mv mysqld.cnf /etc/mysql/mysql.conf.d/mysqld.cnf
ubuntu@ip-172-31-20-185:~$ cd /etc/mysql/mysql.conf.d/
ubuntu@ip-172-31-20-185:/etc/mysql/mysql.conf.d$ 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.

 Remote monitoring
 Follow terminal folder
```

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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 'shopforhome2'. The user is editing the 'application.properties' file in the 'backend/src/main/resources' directory. The file contains configuration properties for a Spring Boot application, including database settings and email configurations. The code is as follows:

```
1 spring.datasource.url=jdbc:mysql://54.152.55.117:3326/ecommerce?useUnicode=true&useJDBCCompliantTimezoneShift=true&useLegacyDatetimeCode=false&serverTimezone=UTC
2 server.port=8080
3 spring.datasource.username=root
4 spring.datasource.password=Archana@29
5 spring.datasource.driver-class-name=com.mysql.jdbc.Driver
6 spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQL57Dialect
7 #spring.jpa.hibernate.ddl-auto=create-drop
8 spring.jpa.hibernate.ddl-auto=update
9 spring.jpa.show-sql=true
10 #server.servlet.contextPath=/api
11 #spring.security.user.name=user
12 #spring.security.user.password=password
13 #Spring Mail Config
14 spring.mail.host = smtp.gmail.com
15 spring.mail.port = 25
16 spring.mail.username = archana@gmail.com
17 spring.mail.password = ghsyzjzshympruzy
18 spring.mail.properties.mail.smtp.auth = true
19 spring.mail.properties.mail.smtp.starttls.enable = true
20
21 #spring.queries.roles-query=select email, role from users where email=?
22
23
```

The GitHub interface includes a header with a search bar, navigation links (Pull requests, Issues, Marketplace, Explore), and repository statistics (Pin, Unwatch, Fork, Star). The bottom of the screen shows a Windows taskbar with various icons and system status information.

Open EC2 Dashboard and Launch the Backend Instance.

The screenshot shows the AWS EC2 Management Console interface. The browser tab is titled "EC2 Management Console". The main content area is titled "Launch an instance". In the "Name and tags" section, the name "backend" is entered. The "Virtual server type (instance type)" is set to "t2.micro". The "Software Image (AMI)" is set to "Amazon Linux 2 Kernel 5.10 AMI...". The "Summary" panel on the right shows one instance being launched. A tooltip indicates a free tier of 750 hours. The "Launch instance" button is visible at the bottom right.

Meet - eyg-ocnw-wun | Dashboard - Great Learning | AWS (Hands-On-Lab) | EC2 Management Console | New Tab

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

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

Services Search for services, features, blogs, docs, and more [Alt+S]

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

EC2 > Instances > Launch an instance

Launch an instance Info

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags Info

Name Add additional tags

Application and OS Images (Amazon Machine Image) Info

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

Search our full catalog including 1000s of application and OS images

Recents Quick Start

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

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ENG IN 20:10 22-08-2022

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI... read more
ami-090fa75af13c156b4

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 X

Cancel Launch instance



Meet - eyg-ocnw-wun

Dashboard - Great Learning

AWS (Hands-On-Lab)

EC2 Management Console

New Tab

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

Services Search for services, features, blogs, docs, and more [Alt+S]

Application and OS Images (Amazon Machine Image) [Info](#)

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

Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat ...

Amazon Machine Image (AMI)

Ubuntu Server 20.04 LTS (HVM), SSD Volume Type
ami-08d4ac5b634553e16 (64-bit (x86)) / ami-0888c389af05d881a (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description
Canonical, Ubuntu, 20.04 LTS, amd64 focal image build on 2022-06-10

Architecture
64-bit (x86)

AMI ID
ami-08d4ac5b634553e16

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Canonical, Ubuntu, 20.04 LTS, ...[read more](#)
ami-08d4ac5b634553e16

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

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

Cancel Launch instance

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

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ENG IN 20:11 22-08-2022

User Data

The screenshot shows the AWS Management Console interface for launching a new EC2 instance. The browser tab is titled "AWS (Hands-On-Lab)" and the URL is "us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstances". The search bar at the top contains the placeholder "Search for services, features, blogs, docs, and more".

The main form on the left is titled "User data" and contains the following code:

```
#!/bin/bash
sudo apt install openjdk-11-jre-headless -y
sudo apt update
sudo apt install maven -y
git clone https://github.com/Archu9999/shopforhome2.git
cd Capstone-shopforhome2/backend/
mvn clean install
cd target/
java -jar shop-api-0.0.1-SNAPSHOT.jar
```

Below the code, there is a checkbox labeled "User data has already been base64 encoded".

The right panel displays the "Summary" section with the following details:

- Number of instances: 1
- Software Image (AMI): Canonical, Ubuntu, 20.04 LTS, ... (with a "read more" link)
- ami-08d4ac5b634553e16
- Virtual server type (instance type): t2.micro
- Firewall (security group): launch-wizard-1
- Storage (volumes): 1 volume(s) - 8 GiB

A tooltip message in the bottom right corner states: "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".

At the bottom right of the summary panel are two buttons: "Cancel" and "Launch instance".

At the very bottom of the page, there are links for "Feedback", "Unified Settings", "© 2022, Amazon Internet Services Private Ltd. or its affiliates.", "Privacy", "Terms", and "Cookie preferences". The status bar at the bottom right shows the date and time: "22-08-2022 20:16" and "ENGLISH".

Successfully Created Backend Instance

The screenshot shows the AWS EC2 Instances page with the following details:

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DN
MySQL	i-06cac4ce012948338	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-54-152-55
backend	i-0b81e83d1096380cc	Pending	t2.micro	-	No alarms	us-east-1d	ec2-54-242-11

Instance: i-0b81e83d1096380cc (backend)

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

Instance summary

Instance ID i-0b81e83d1096380cc (backend)	Public IPv4 address 54.242.115.81 open address	Private IPv4 addresses 172.31.34.183
IPv6 address -	Instance state Pending	Public IPv4 DNS ec2-54-242-115-81.compute-1.amazonaws.com open address
Hostname type IP name: ip-172-31-34-183.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-34-183.ec2.internal	

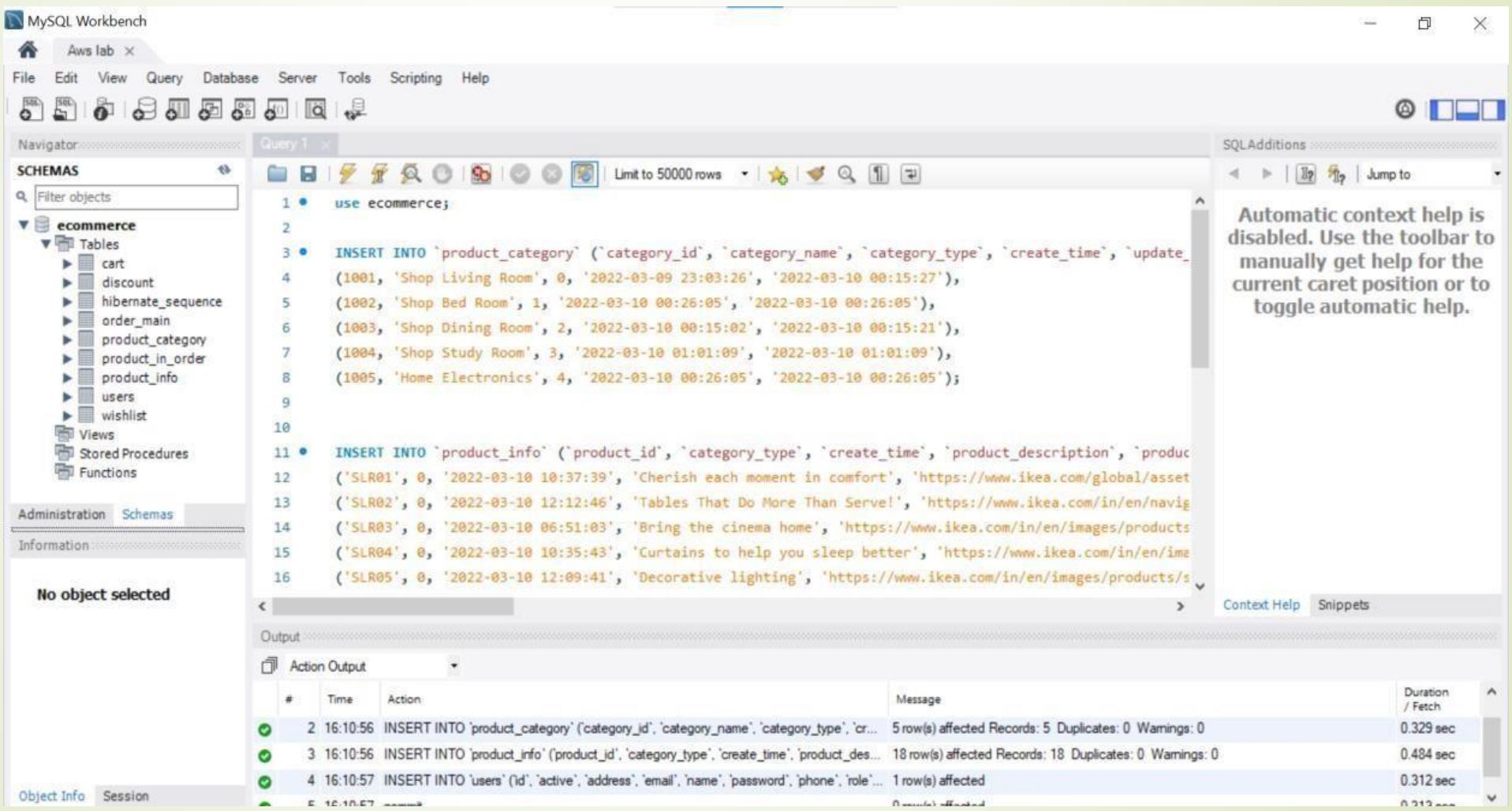
Waiting for us-east-1.console.aws.amazon.com...

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Privacy Terms Cookie preferences

ENG IN 20:16 22-08-2022

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



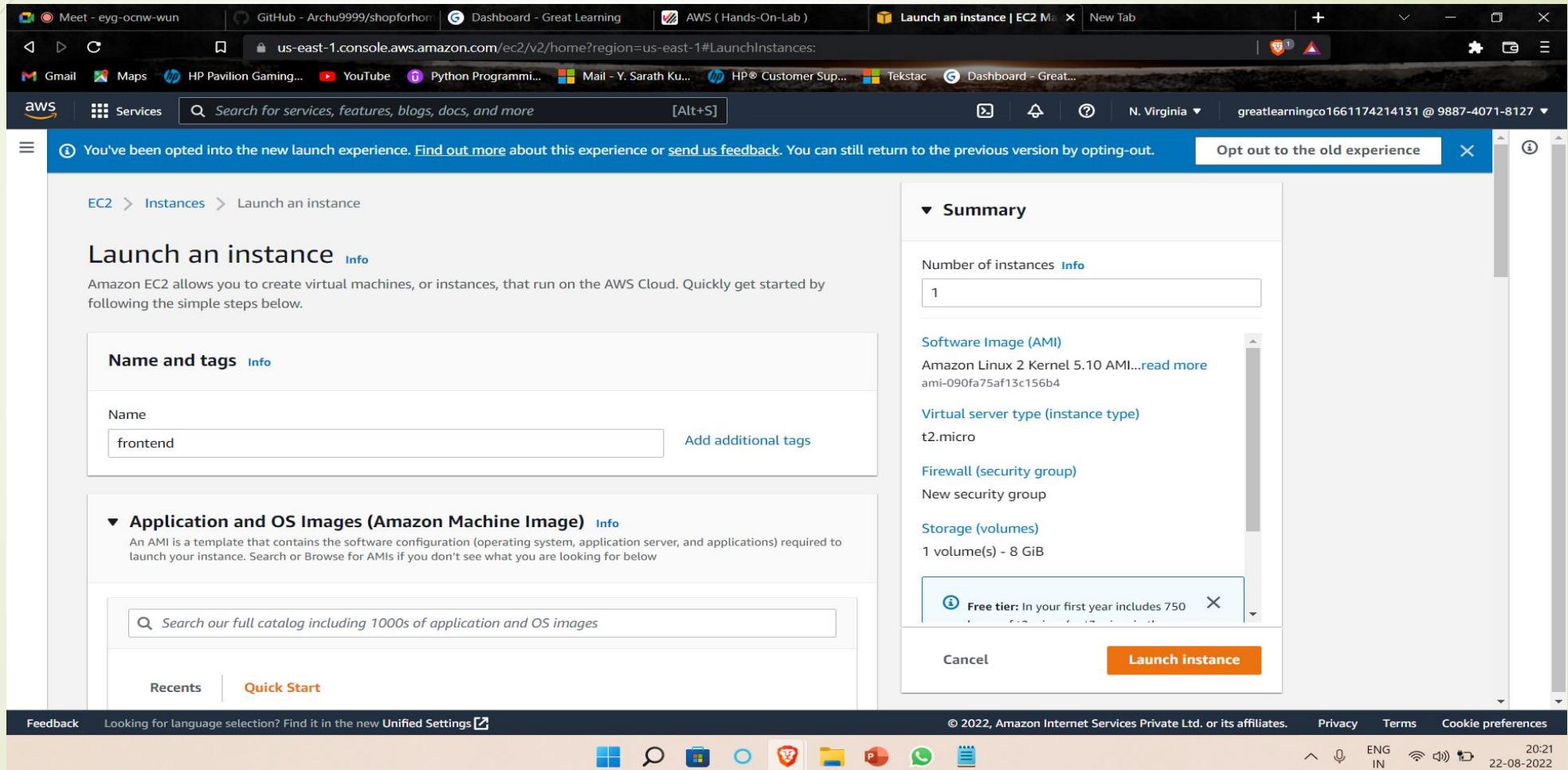
- Copy the public IP of backend instance and paste it in new tab with:8080/productall
- Then it displays all the products list.



Not secure | 54.165.196.87:8080/productall

```
{"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/511X16tJUyL.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-X257CQES", "productIcon": "https://cdn.vox-cdn.com/thumbor/Atvpj5tUuIgLq55pPrG2-A-MHF8-/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 andvibration, 10-Year MotorWarranty, 22-Year VDE Certification),TrueSteam", "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": "SBR01", "productName": "Bed", "productPrice": 12000.00, "productStock": 108, "productDescription": "Adolph Bed With Side Storage", "productIcon": "https://m.media-amazon.com/images/I/41tCT+QZpIL.jpg", "productStatus": 0, "categoryType": 1, "createTime": "2022-03-10T12:11:51.000+0000", "updateTime": "2022-07-09T14:36:20.000+0000"}, {"productId": "SBR02", "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-37603271.jpg", "productStatus": 0, "categoryType": 1, "createTime": "2022-03-10T06:44:25.000+0000", "updateTime": "2022-07-10T13:43:23.000+0000"}, {"productId": "SBR03", "productName": "Bed Sheets", "productPrice": 999.00, "productStock": 199, "productDescription": "cotton check silk bedsheets, 6ft x 6ft", "productIcon": "https://5.imimg.com/data5/TU/MN/IJ/SELLER-96709932/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": 566.00, "productStock": 200, "productDescription": "floral prited cloth", "productIcon": "https://5.imimg.com/data5/PV/FB/MY-32572973/dining-table-cloth-500x500.jpg", "productStatus": 0, "categoryType": 2, "createTime": "2022-03-10T12:08:17.000+0000", "updateTime": "2022-07-10T13:43:23.000+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/Sunjuh-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 each moment in comfort", "productIcon": "https://www.ikea.com/global/assets/navigation/images/two-seat-sofas-10668.jpeg?imwidth=500", "productStatus": 1, "categoryType": 0, "createTime": "2022-03-10T10:39.000+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?f=xxs", "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?f=xxs", "productStatus": 0, "categoryType": 0, "createTime": "2022-03-10T10:35:43.000+0000", "updateTime": "2022-07-10T13:50:11.000+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?f=xxs", "productStatus": 0, "categoryType": 0, "createTime": "2022-03-10T12:09:41.000+0000", "updateTime": "2022-03-10T19:42:02.000+0000"}]
```

Creation of Application Frontend Instance



User Data

The screenshot shows the AWS EC2 Launch Instance wizard. In the 'User data' section, the following script is displayed:

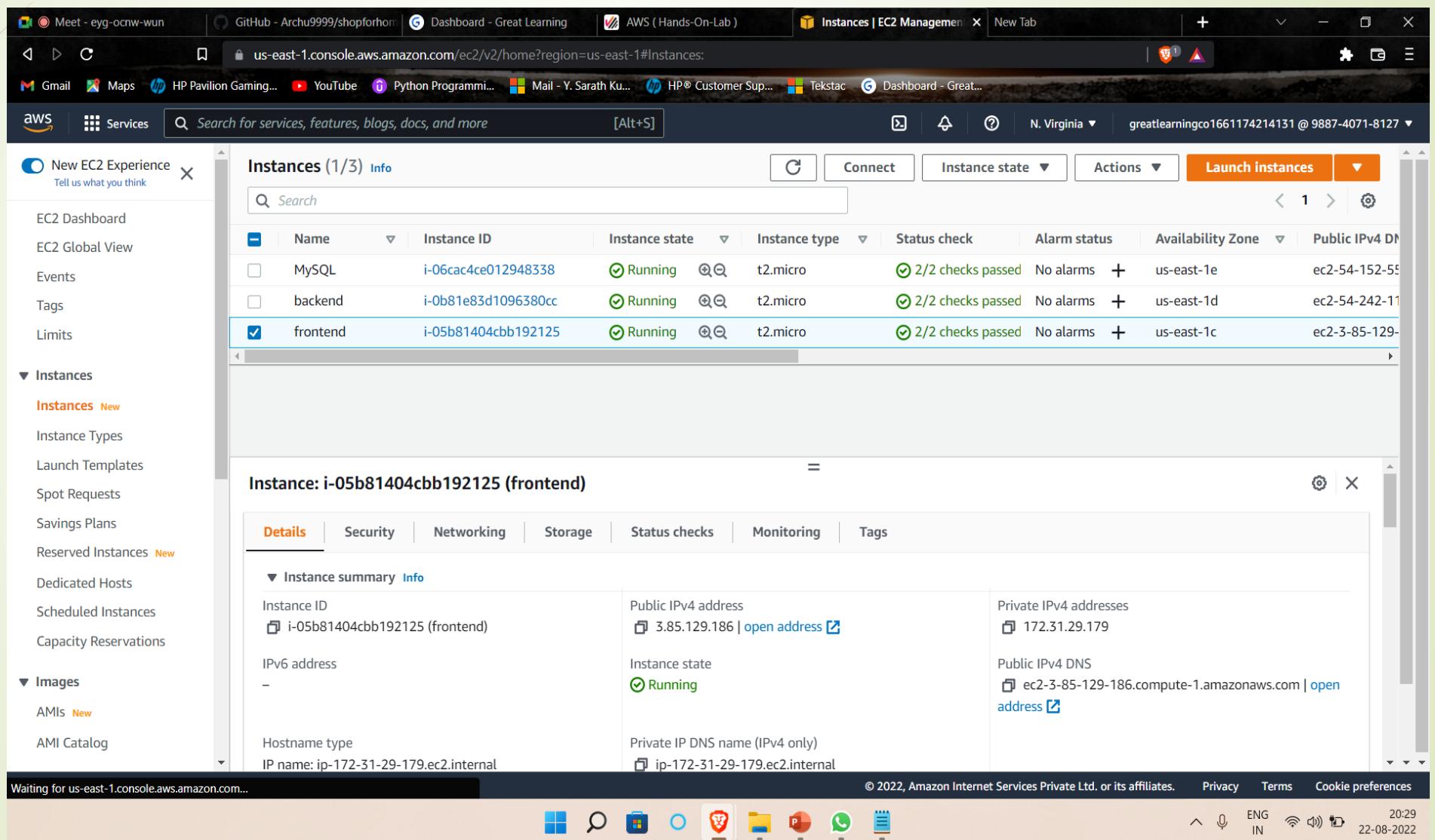
```
#!/bin/bash
sudo apt install python-software-properties
curl -sL https://deb.nodesource.com/setup_14.x | sudo -E bash -
sudo apt-get install nodejs -y
sudo npm install -g @angular/cli
git clone https://github.com/Archu9999/shopforhome2.git
cd Capstone-shopforhome2/frontend/
sudo npm install
sudo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

A checkbox at the bottom left of the user data input area is labeled "User data has already been base64 encoded". On the right side of the screen, the "Summary" section shows the following configuration:

- Number of instances: 1
- Software Image (AMI): Canonical, Ubuntu, 20.04 LTS, ami-08d4ac5b634553e16
- Virtual server type (instance type): t2.micro
- Firewall (security group): launch-wizard-1
- Storage (volumes): 1 volume(s) - 8 GiB

A tooltip for the "Free tier" is visible, stating: "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". At the bottom right, there are "Cancel" and "Launch instance" buttons.

Successfully Created Frontend Instance



The screenshot shows the AWS EC2 Instances page with three instances listed:

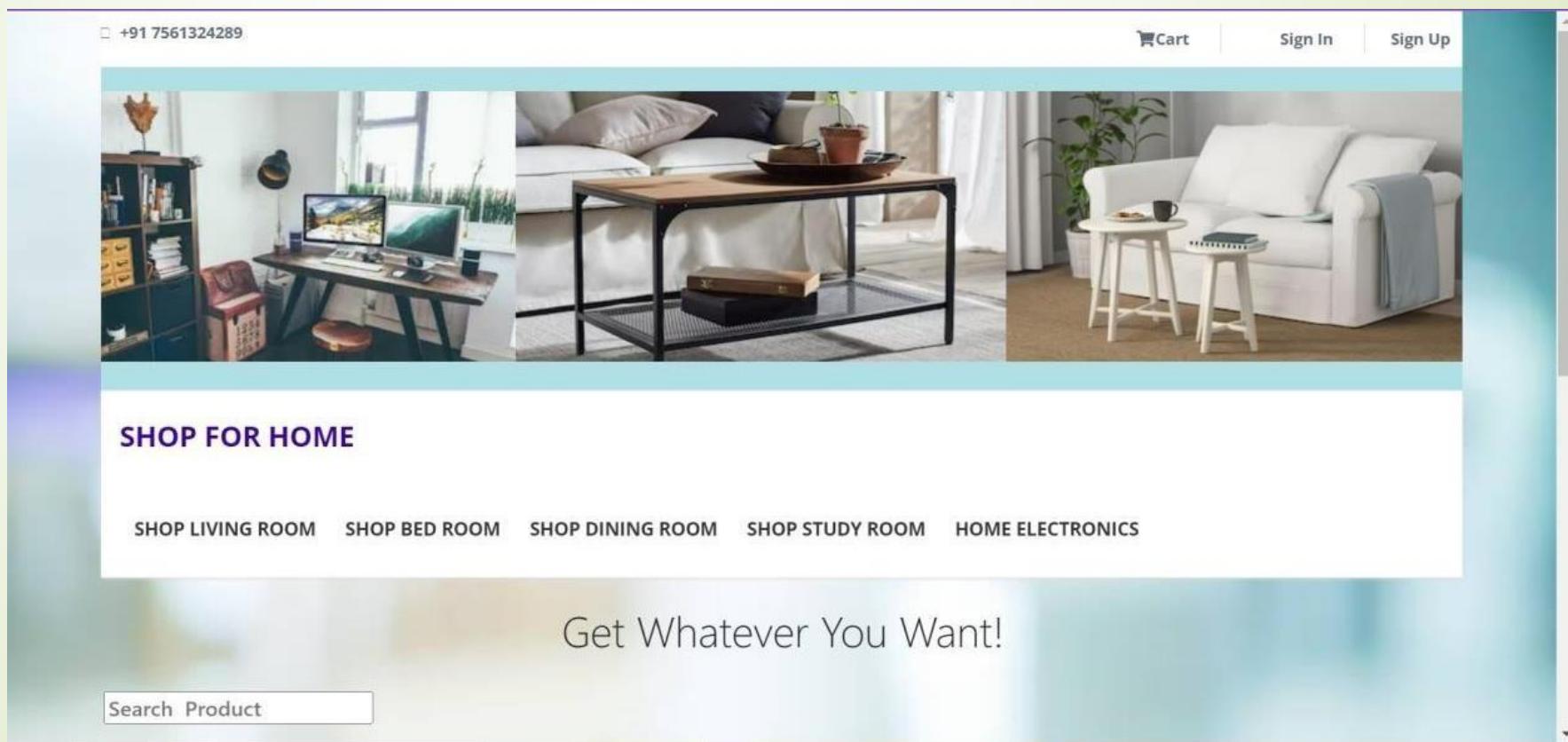
Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
MySQL	i-06cac4ce012948338	Running	t2.micro	2/2 checks passed	No alarms	us-east-1e	ec2-54-152-55-
backend	i-0b81e83d1096380cc	Running	t2.micro	2/2 checks passed	No alarms	us-east-1d	ec2-54-242-11-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

The "frontend" instance is selected. The details pane shows:

- Instance ID: i-05b81404ccb192125 (frontend)
- Public IPv4 address: 3.85.129.186 | [open address](#)
- Private IPv4 addresses: 172.31.29.179
- Public IPv4 DNS: ec2-3-85-129-186.compute-1.amazonaws.com | [open address](#)
- Hostname type: IP name: ip-172-31-29-179.ec2.internal
- Private IP DNS name (IPv4 only): ip-172-31-29-179.ec2.internal
- Instance state: Running

The left sidebar shows the navigation menu for the EC2 service.

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



Created EC2 Instances

The screenshot shows the AWS EC2 Instances management console with three instances listed:

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

The left sidebar shows navigation options for EC2 Dashboard, Global View, Events, Tags, Limits, Instances (with sub-options for Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations), and Images (AMIs, Catalog).

At the bottom, there are links for Feedback, Unified Settings, Copyright notice (© 2022, Amazon Internet Services Private Ltd. or its affiliates.), and various system icons.

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

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!

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: 200

Coffee tables
Description: Tables That Do More Than Serve!
Price: \$5,000.00
Stock: 200

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

Get It!



Mattress

Description: Wakefit Orthopaedic Memory Foam Mattress (78*72*6inch) / (198.1*182.9*15.2cm)

Price: \$9,999.00

Stock: 6

Get It!



Bed Sheets

Description: cotton check silk bedsheets ,6ft x 6ft

Price: \$999.00

Stock: 199

Get It!

Shop Dining Room

Search Product



Dining table

Description: Wooden table 3/4

Price: \$899.00

Stock: 199

Get It!



Table cloth

Description: floral prited 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: Lindsay 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

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

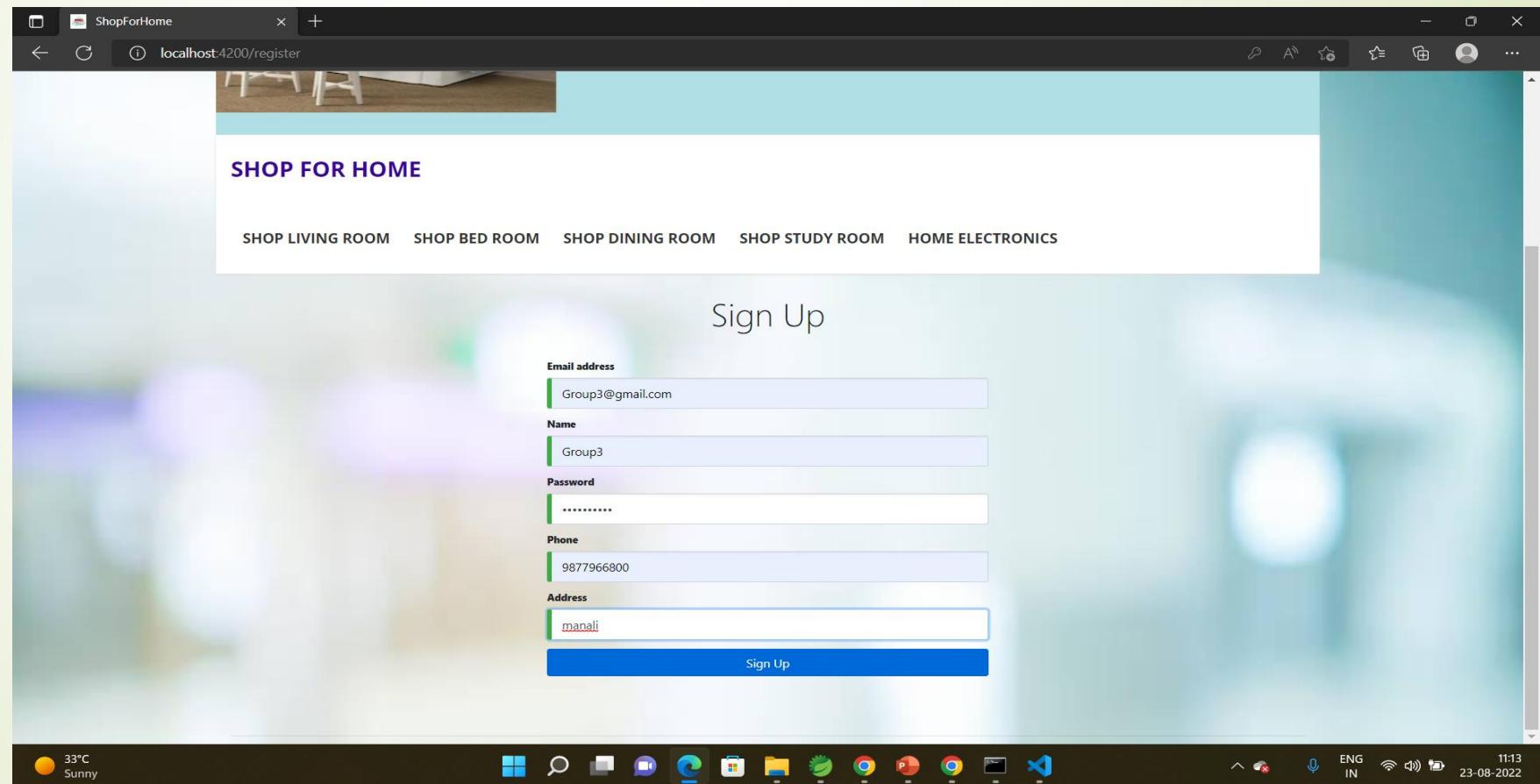
COUPON APPLIED :

TOTAL: ₹5,000.00

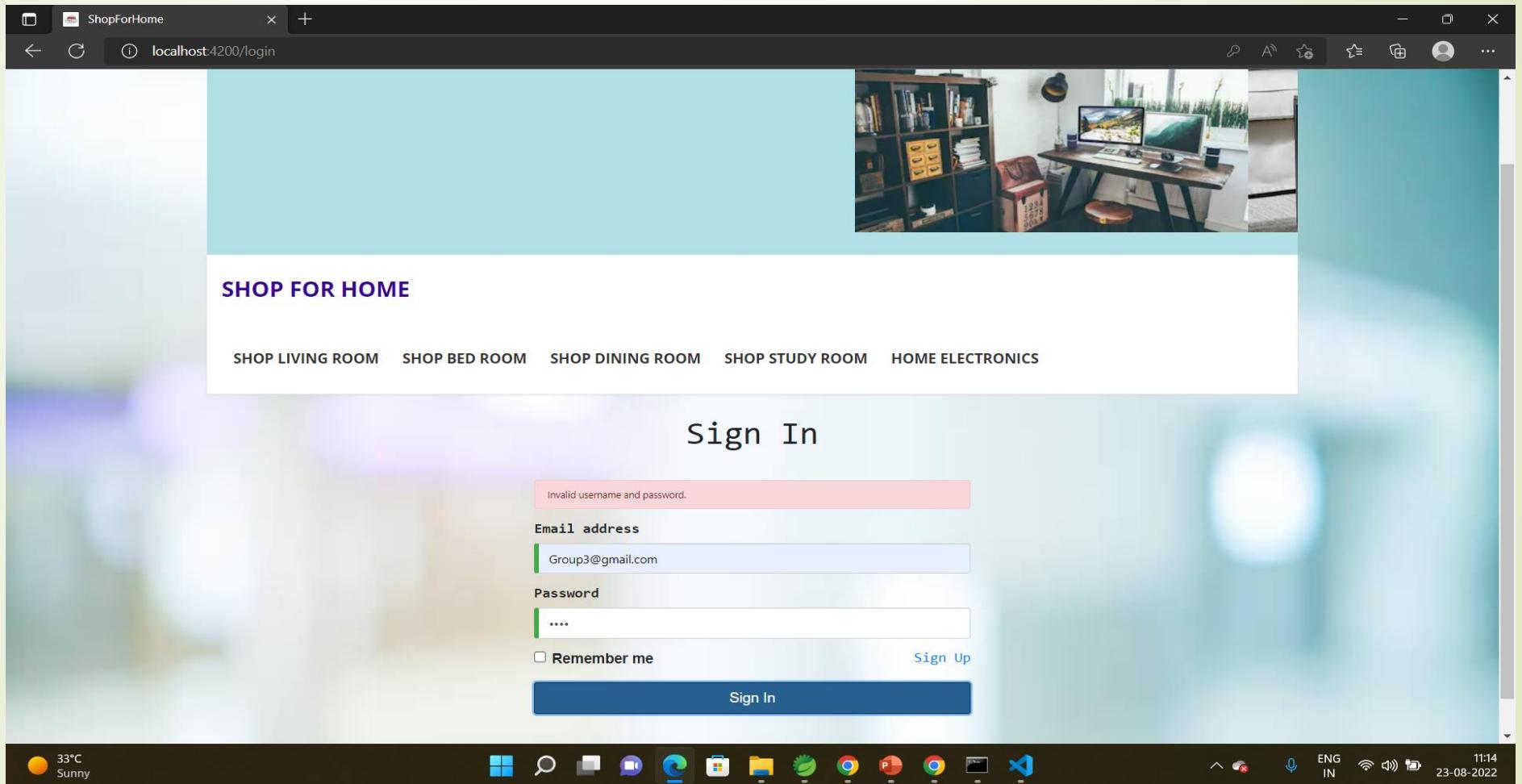
SUB TOTAL	₹5,000.00
SHIPPING COST	₹20.00
TOTAL	₹5,020.00

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

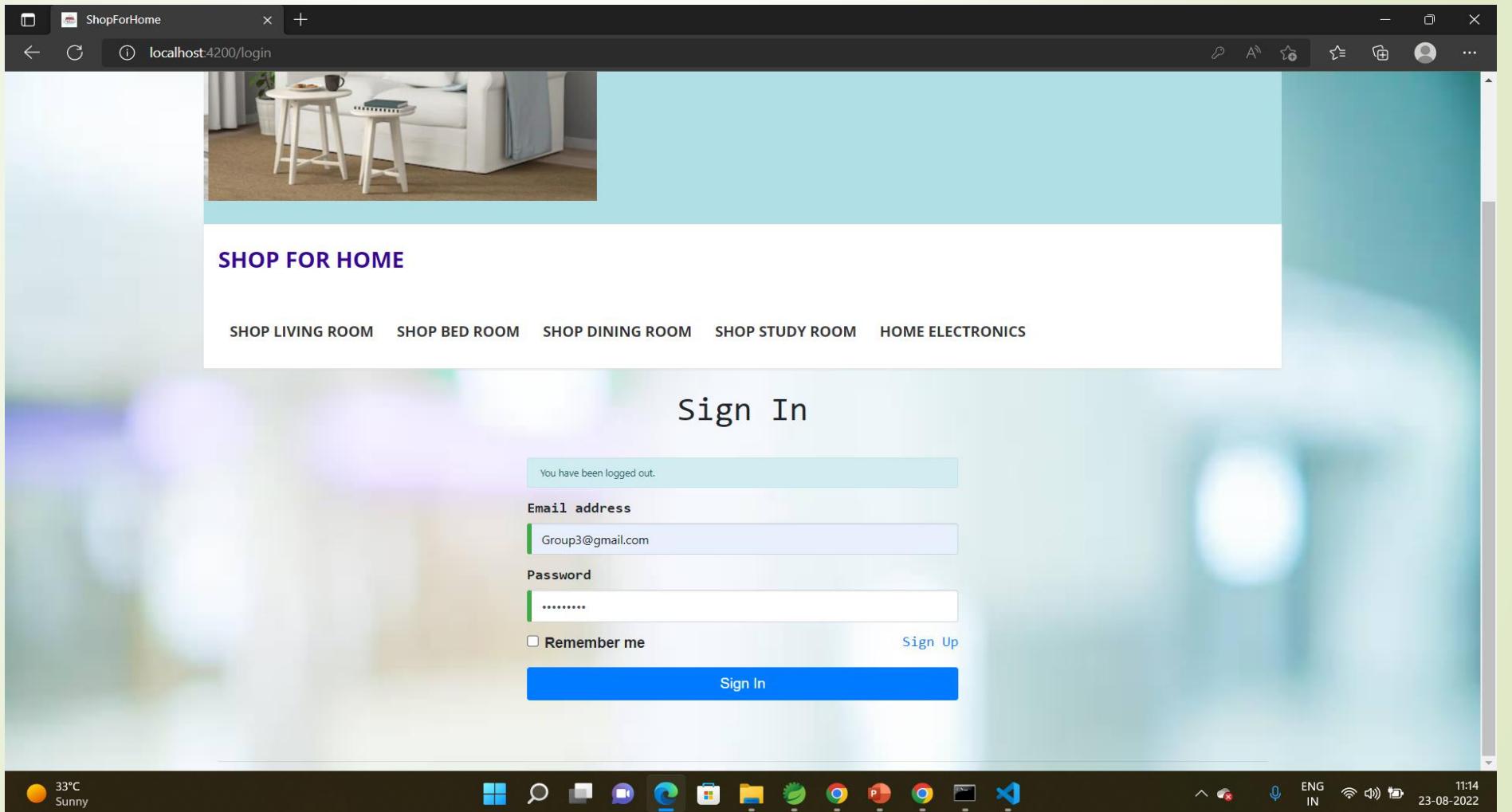
User Sign up



Invalid credentials



Valid credentials



ShopForHome

localhost:4200/product

+91 7561324289

Cart | Wishlist | Orders | Group3 | Sign Out

SHOP FOR HOME

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

Get Whatever You Want!

Search Product

34°C Partly sunny

LG Front Load 10kg

13:48 23-08-2022

Quantity Increase or decrease



Bed

Description: Adolph Bed With Side Storage

Price: \$12,000.00

Stock: 108

Quantity:

Subtotal: \$12,000.00

 [Add to Cart](#)



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	Remove

View orders details

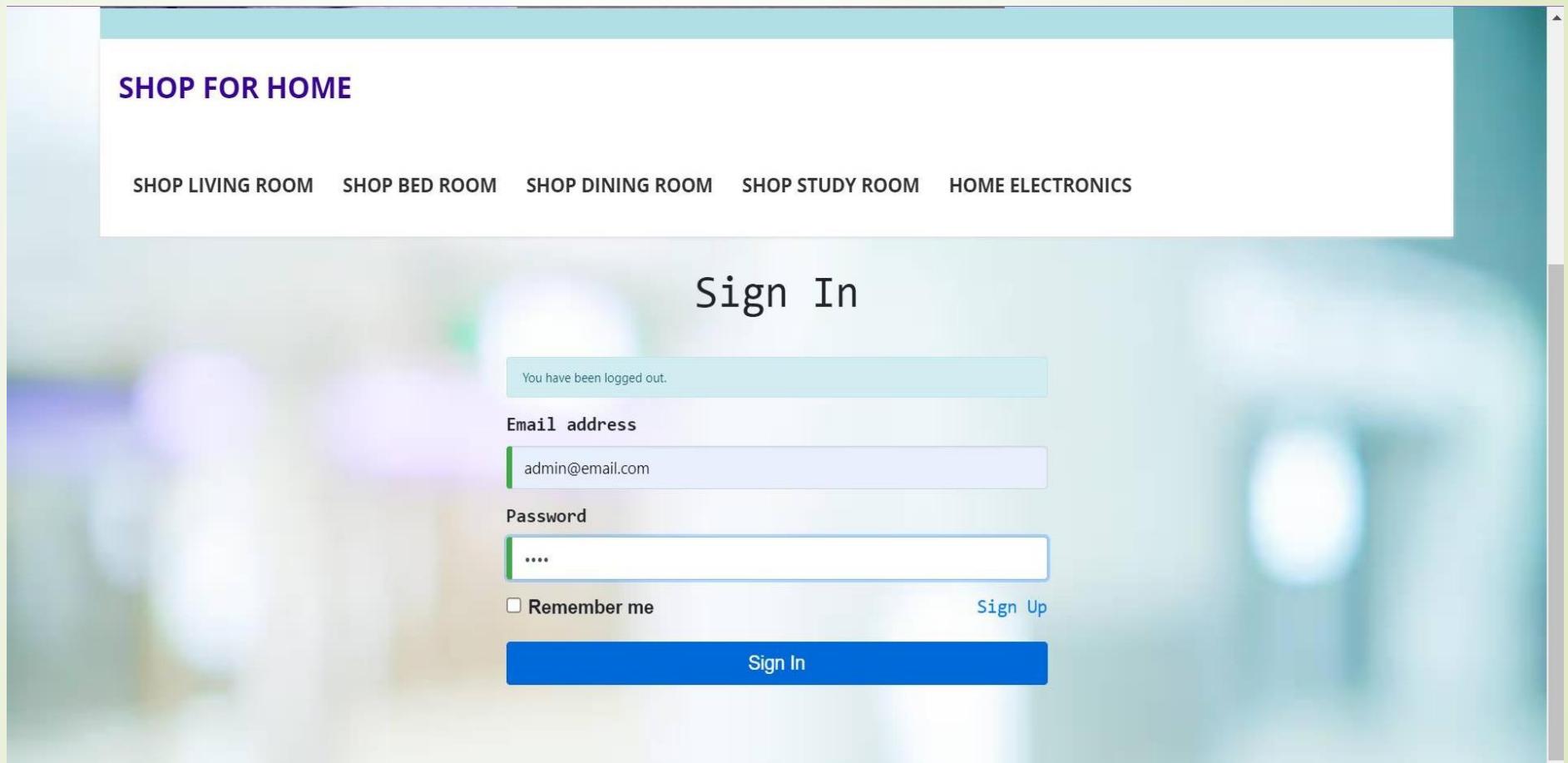
SHOP FOR HOME

[SHOP LIVING ROOM](#) [SHOP BED ROOM](#) [SHOP DINING ROOM](#) [SHOP STUDY ROOM](#) [HOME ELECTRONICS](#)

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



+91 7561324289

Discount Users Stocks

Orders

Admin

Sign Out



SHOP FOR HOME

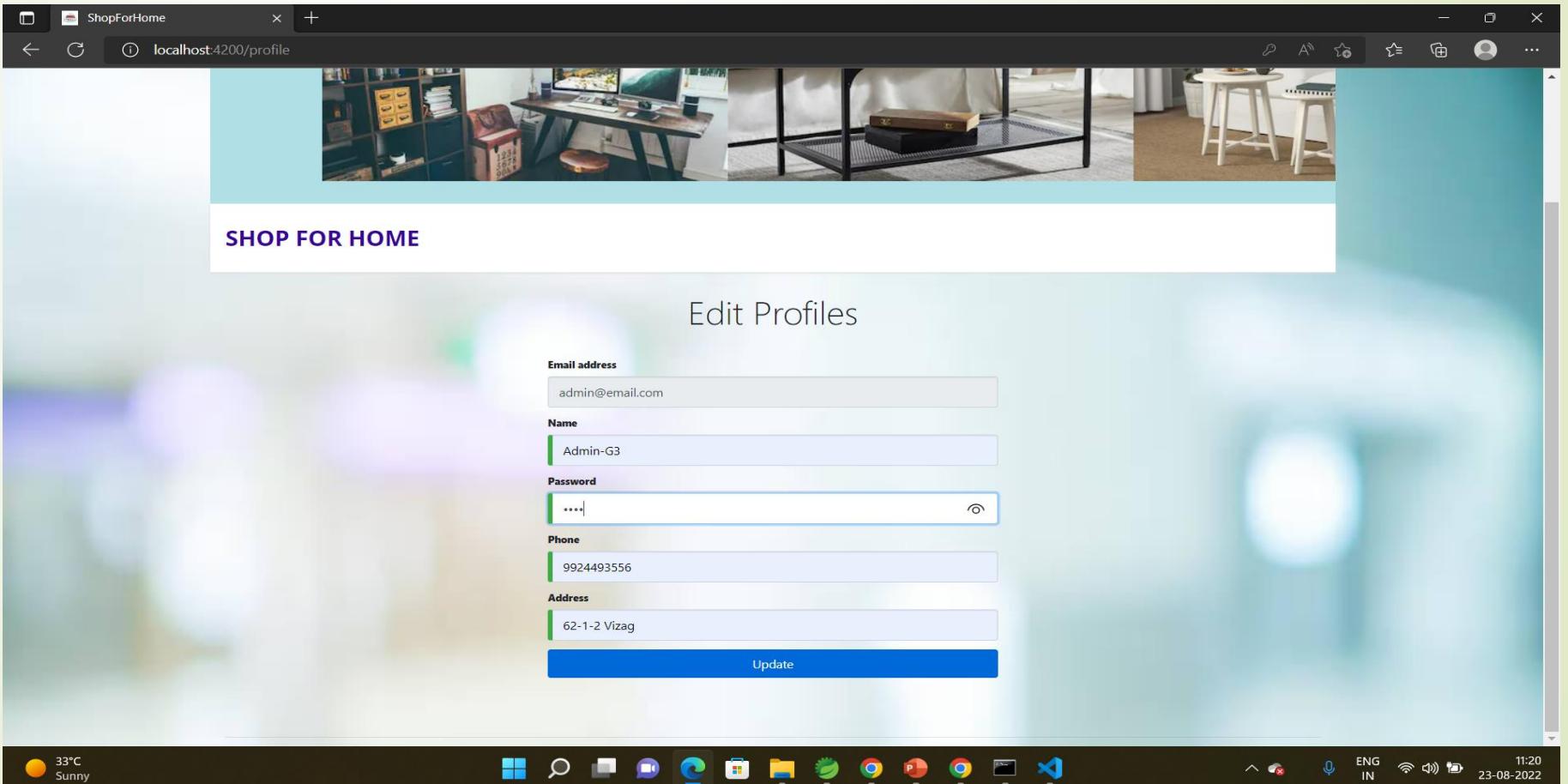
Products



Choose File No file chosen

Upload

Edit admin profile



ShopForHome

localhost:4200/seller/product

+91 7561324289

Discount Users Stocks Orders Admin-G3 Sign Out

SHOP FOR HOME

Products

Choose File No file chosen

Upload

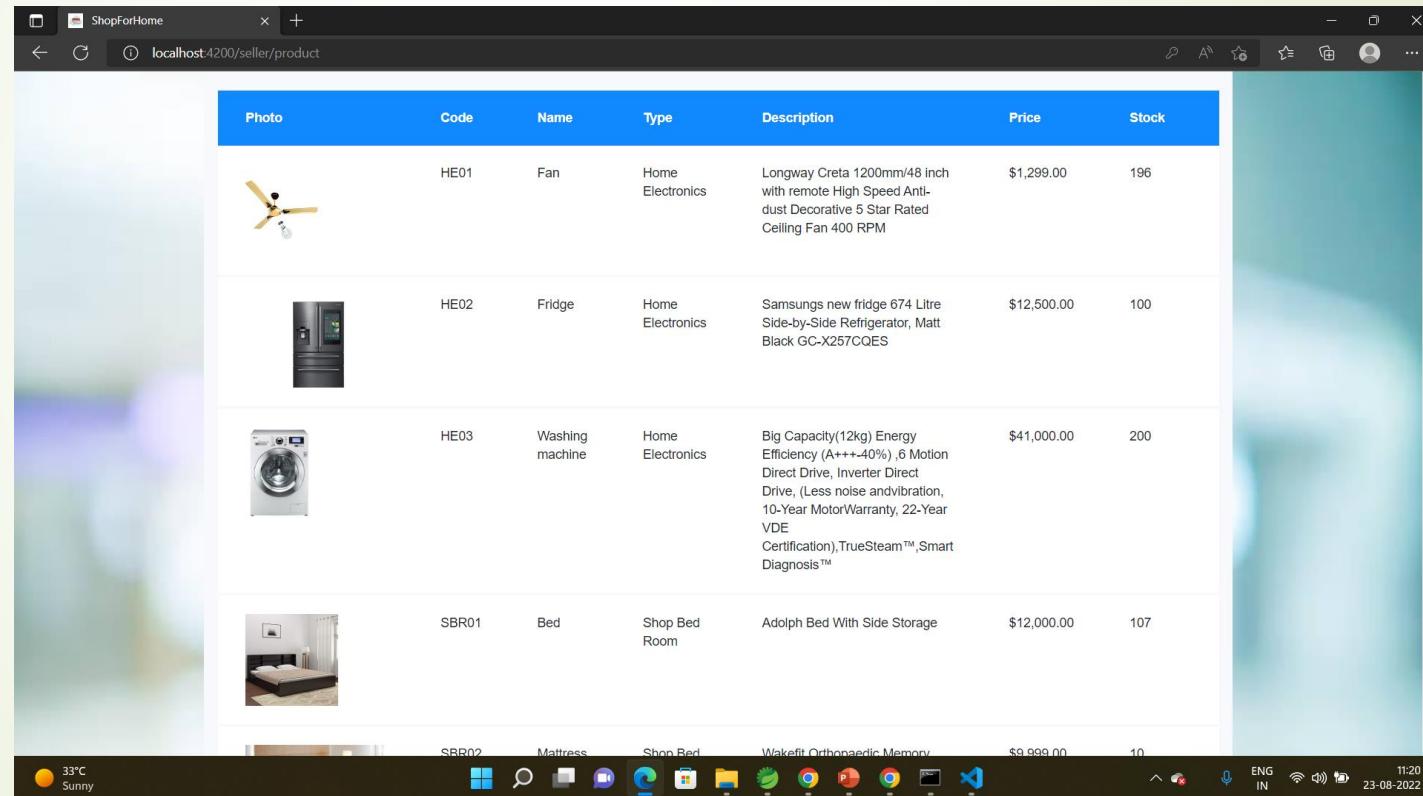
Table #01

Photo	Code	Name	Type	Description	Price	Stock
-------	------	------	------	-------------	-------	-------

33°C Sunny

11:20 23-08-2022 ENG IN

Products List



A screenshot of a web browser window titled "ShopForHome" displaying a products list. The URL "localhost:4200/seller/product" is visible in the address bar. The page features a table with columns: Photo, Code, Name, Type, Description, Price, and Stock. The table contains four rows of data.

Photo	Code	Name	Type	Description	Price	Stock
	HE01	Fan	Home Electronics	Longway Creta 1200mm/48 inch with remote High Speed Anti-dust Decorative 5 Star Rated Ceiling Fan 400 RPM	\$1,299.00	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 andvibration, 10-Year MotorWarranty, 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

Edit Product

Code
HE01

Photo Link
https://images-eu.ssl-images-amazon.com/images/I/511Xl6tUyL._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

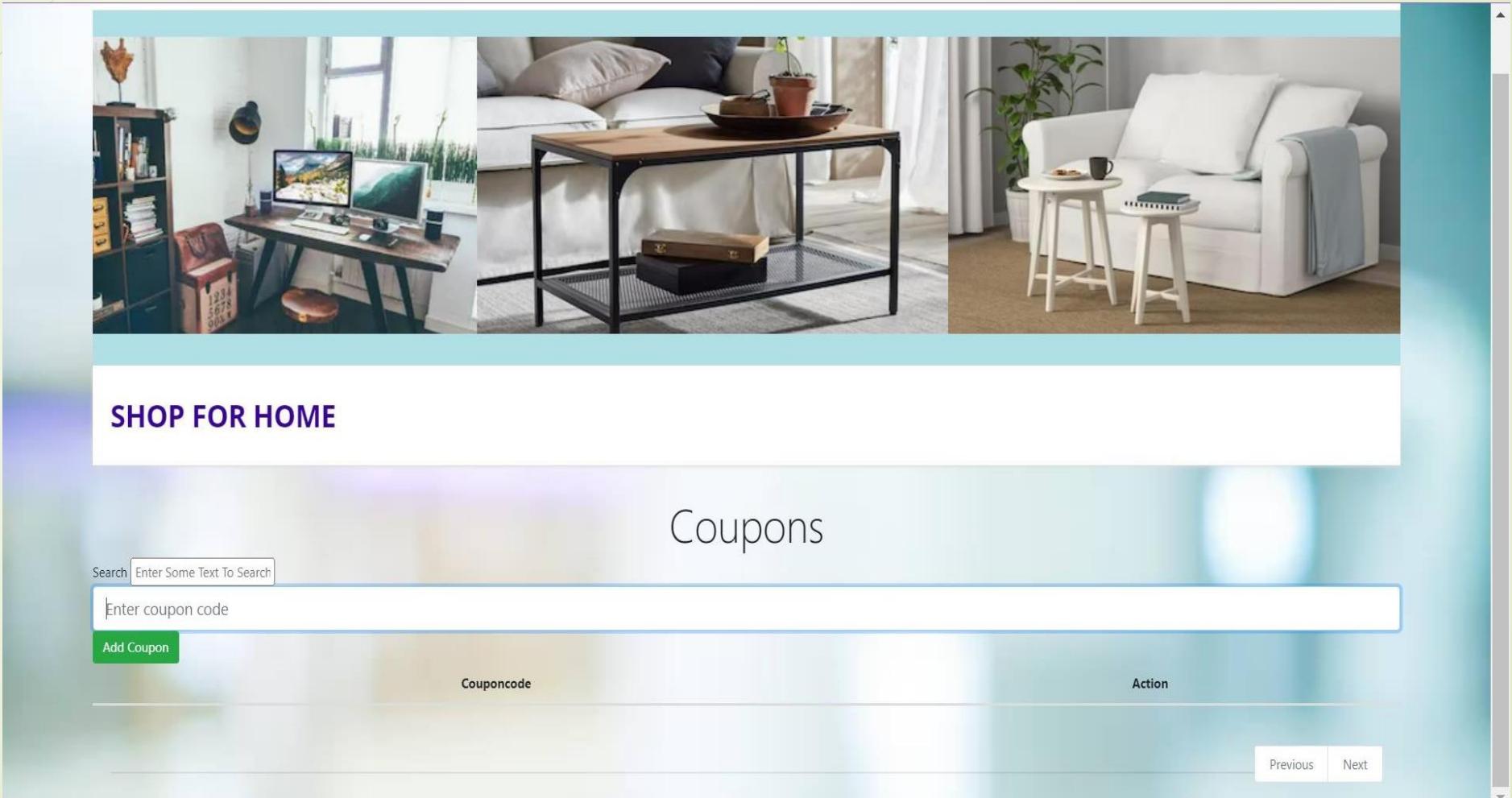
Submit

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



Add Coupons

The screenshot shows a web-based interface for managing coupons. At the top, there is a decorative banner featuring three images: a home office setup with a desk, a coffee table, and a living room sofa. Below this is a purple header bar containing the text "SHOP FOR HOME". The main content area has a light blue background and features a search bar with the placeholder "Enter Some Text To Search" and a button labeled "Add Coupon". The word "Coupons" is prominently displayed in the center. A table lists three coupon codes:

Couponcode	Action
sales400	Delete
ShopForHome50	Delete
welcome	Delete

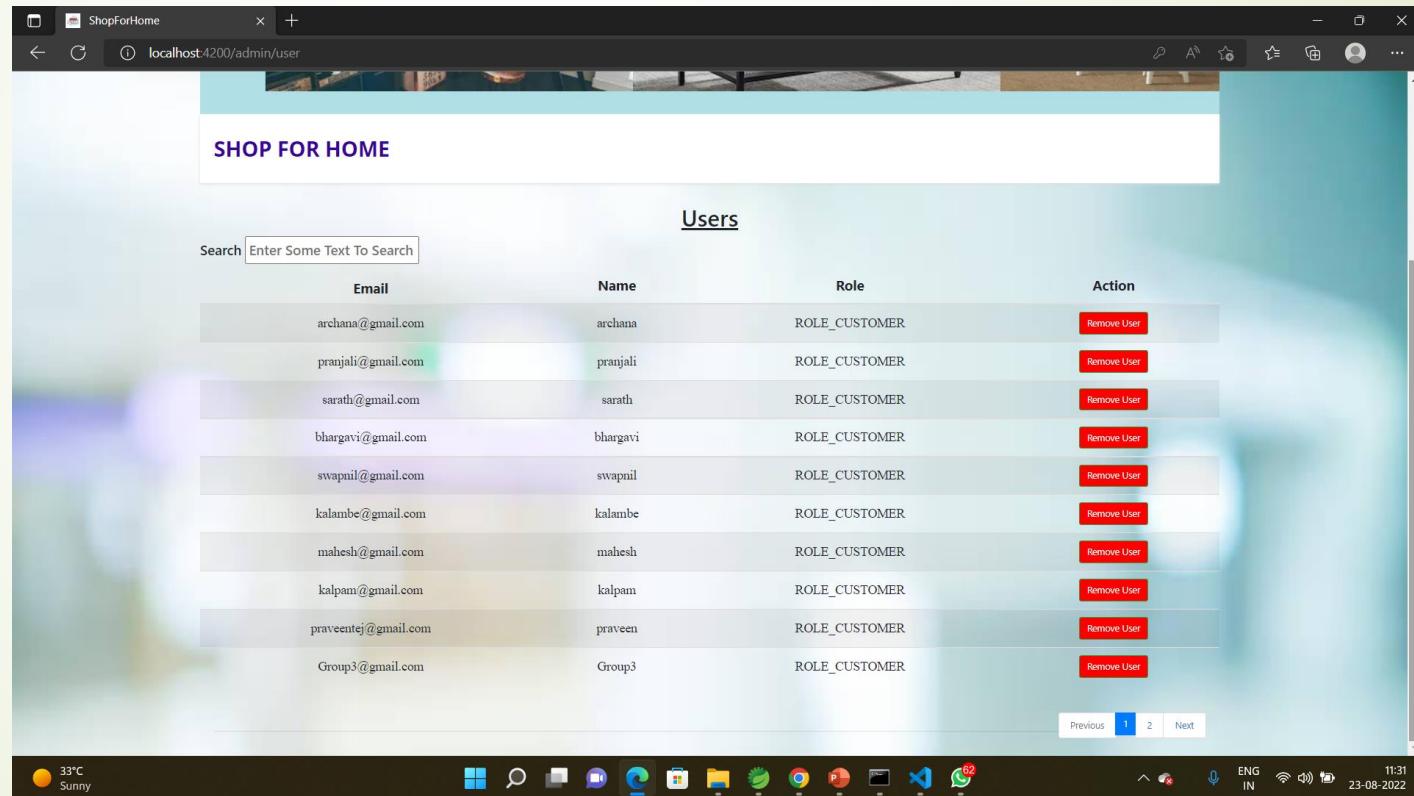
Delete Coupons

The screenshot shows a website for home decor. At the top, there is a banner with three images: a desk setup, a coffee table, and a sofa. Below the banner, a purple bar contains the text "SHOP FOR HOME". The main content area is titled "Coupons". It features a search bar with placeholder text "Enter Some Text To Search" and a button labeled "Add Coupon". A table lists two coupons:

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

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

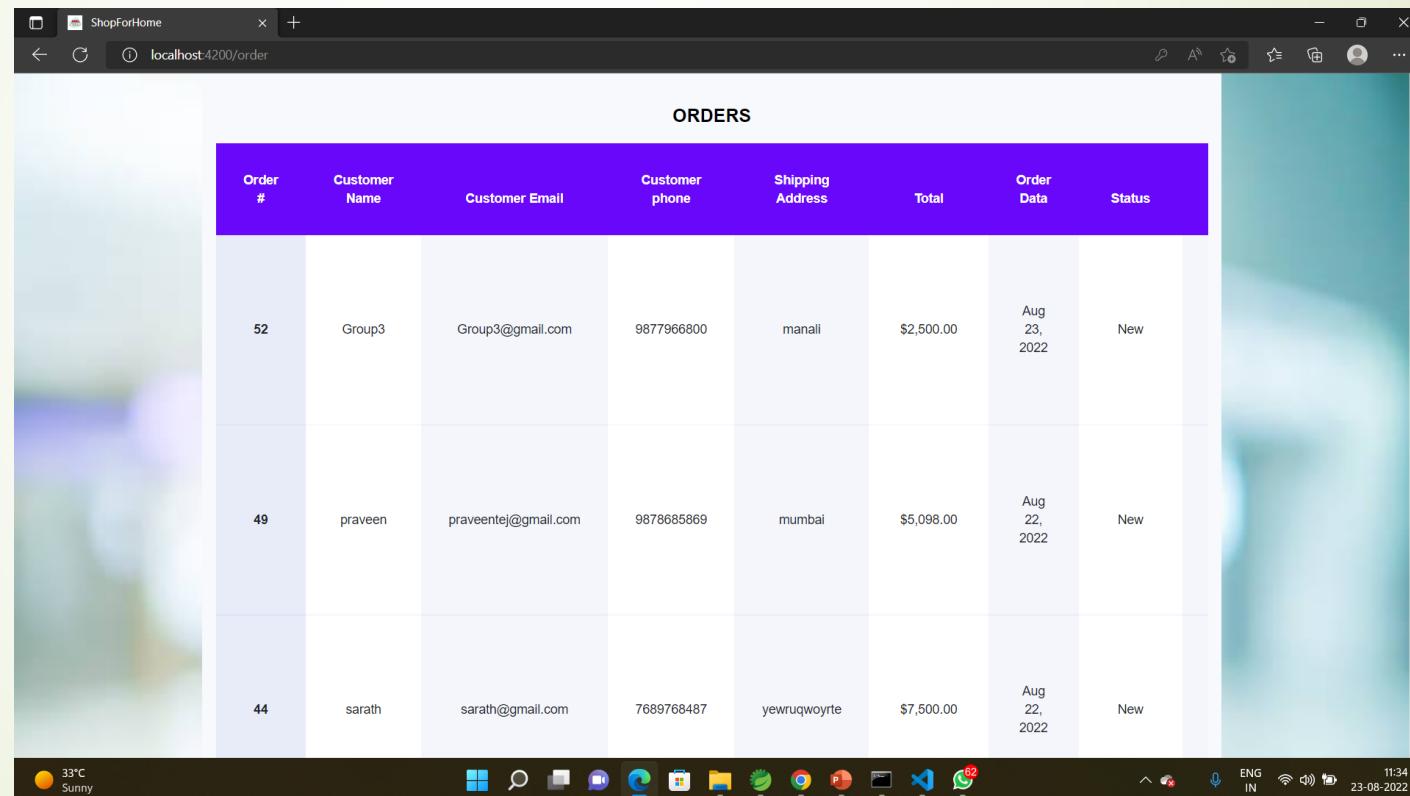
Remove User



Stock Report

Fridge	Home Electronics	Samsung's new fridge 674 Litre Side-by-Side Refrigerator, Matt Black GC-X257CQES	\$122,500.00	200	Unavailable	Edit	email
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	Edit	email
Bed	Shop Bed Room	Adolph Bed With Side Storage	\$12,000.00	108	Available	Edit	email
Mattress	Shop Bed Room	Wakefit Orthopaedic Memory Foam Mattress (78*72*6inch) / (198.1*182.9*15.2cm)	\$9,999.00	6	Available	Edit	email

Finish Orders

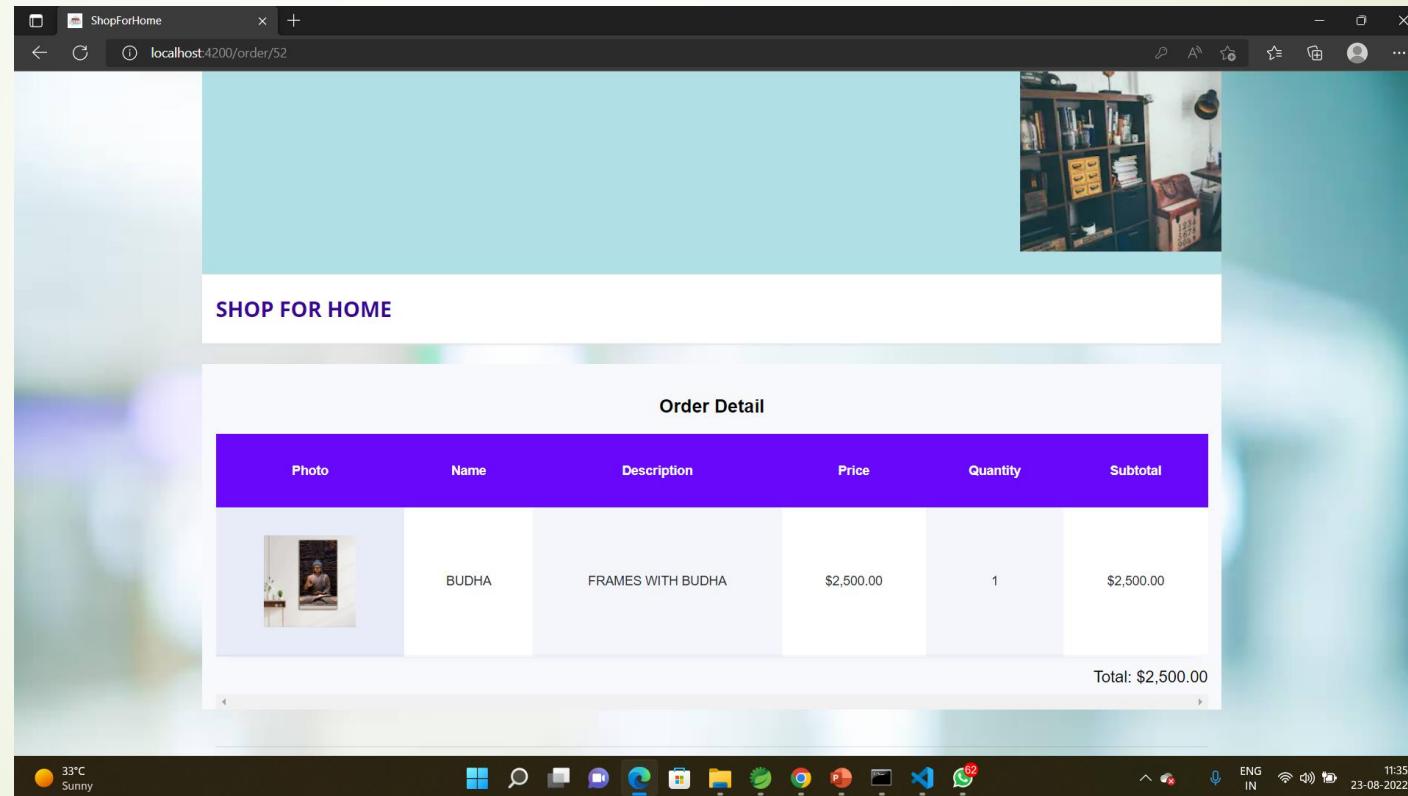


A screenshot of a web browser window titled "ShopForHome" showing an "ORDERS" table. The table has columns for Order #, Customer Name, Customer Email, Customer phone, Shipping Address, Total, Order Date, and Status. There are three rows of data:

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	9878685869	mumbai	\$5,098.00	Aug 22, 2022	New
44	sarath	sarath@gmail.com	7689768487	yewruqwoyte	\$7,500.00	Aug 22, 2022	New

At the bottom of the screen, there is a taskbar with various icons and a weather widget showing "33°C Sunny". The system tray shows the date as "23-08-2022" and the time as "11:34".

View order details





Thank You.