

## Practical 6

Name: PRADNYESH D PARMEKAR

Roll no:- L027

Sap no:- 40778240027

### Step 1: Choose Your Region

The screenshot shows the AWS Management Console interface. The top navigation bar includes the AWS logo, 'Services' link, a search bar, and the current region 'Mumbai'. A blue banner at the top left states: 'myApplications now supports automatic addition of resources to existing tags. Use your existing tags to automatically add resources to your applications. Learn more [link]'. The main content area is titled 'Console Home' and features a 'Recently visited' section with links to S3, IAM, Systems Manager, Billing and Cost Management, and AWS Health Dashboard. Below this is an 'Applications (0)' section, currently set to the 'Asia Pacific (Mumbai)' region. A dropdown menu is open, displaying a list of available regions and their corresponding IDs. The regions listed are: US East (N. Virginia) [us-east-1], US East (Ohio) [us-east-2], US West (N. California) [us-west-1], US West (Oregon) [us-west-2], Asia Pacific (Mumbai) [ap-south-1] (highlighted), Asia Pacific (Osaka) [ap-northeast-3], Asia Pacific (Seoul) [ap-northeast-2], Asia Pacific (Singapore) [ap-southeast-1], Asia Pacific (Sydney) [ap-southeast-2], Asia Pacific (Tokyo) [ap-northeast-1], Canada (Central) [ca-central-1], Europe (Frankfurt) [eu-central-1], Europe (Ireland) [eu-west-1], Europe (London) [eu-west-2], Europe (Paris) [eu-west-3], Europe (Stockholm) [eu-north-1], South America (São Paulo) [sa-east-1], and Africa (Cape Town) [af-south-1]. A note at the bottom of the dropdown states: 'There are 13 Regions that are not enabled for this account'. The bottom of the console shows a 'CloudShell' button and a 'Feedback' link.

Region	Region ID
US East (N. Virginia)	us-east-1
US East (Ohio)	us-east-2
US West (N. California)	us-west-1
US West (Oregon)	us-west-2
<b>Asia Pacific (Mumbai)</b>	<b>ap-south-1</b>
Asia Pacific (Osaka)	ap-northeast-3
Asia Pacific (Seoul)	ap-northeast-2
Asia Pacific (Singapore)	ap-southeast-1
Asia Pacific (Sydney)	ap-southeast-2
Asia Pacific (Tokyo)	ap-northeast-1
Canada (Central)	ca-central-1
Europe (Frankfurt)	eu-central-1
Europe (Ireland)	eu-west-1
Europe (London)	eu-west-2
Europe (Paris)	eu-west-3
Europe (Stockholm)	eu-north-1
South America (São Paulo)	sa-east-1
Africa (Cape Town)	af-south-1

### Step 2: Create a Security Group

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- Navigate to the AWS Management Console and search for “VPC.”
- Select “VPC” under services in the search results.
- Scroll down to “Security Groups” in the VPC navigation pane.
- Click “Create Security Group.”
- Provide a name and description for the security group.
- Select the appropriate VPC if you have multiple.
- Under Inbound rules, add a rule for HTTP (port 80) with the source set to “anywhere IPv4.”
- Add a rule for SSH (port 22) with the source set to “My IP” for added security.
- Create the security group.

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The image displays three screenshots of the AWS Management Console interface, specifically focusing on VPC (Virtual Private Cloud) services.

**Top Screenshot: VPC dashboard**

- Search results for 'vpc':** Shows a list of services including VPC, AWS Firewall Manager, Detective, and Managed Services.
- Features:** Lists VPC features such as Dashboard, Route 53 VPCs, VPC Reachability Analyzer, and VPC links.
- Left sidebar:** Contains navigation links for VPC dashboard, EC2 Global View, and various VPC resources like Subnets, Route tables, and Internet gateways.

**Middle Screenshot: Resources by Region**

- Create VPC / Launch EC2 Instances:** Buttons at the top.
- Resources by Region:** A grid showing various VPC resources (VPCs, Subnets, Route Tables, Internet Gateways, Egress-only Internet Gateways, DHCP option sets, Endpoints, Instance Connect Endpoints, NAT Gateways, VPC Peering Connections, Network ACLs, Security Groups, Customer Gateways, Virtual Private Gateways, Site-to-Site VPN Connections, and Running Instances) categorized by region (Asia Pacific).
- Service Health / Settings / Additional Information:** Sidebars providing service health, settings, and additional information.

**Bottom Screenshot: Security Groups (1)**

- Security Groups (1):** A table listing security groups.
- Table Data:**

Name	Security group ID	Security group name	VPC ID	Description	Owner
-	sg-084d41a90d8fae720	default	vpc-068b3ca71c3e2ebd0	default VPC security group	767397725857

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**Create security group**

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

**Basic details**

Security group name [info](#)  
PradDeploySecure  
Name cannot be edited after creation.

Description [info](#)  
First Aws Deployment

VPC [info](#)  
vpc-068b3ca71c3e2ebd0

**Inbound rules** [info](#)

Type	Protocol	Port range	Source	Description - optional
HTTP	TCP	80	Anywhere-I...	
SSH	TCP	22	My IP	

[Add rule](#)

**Outbound rules** [info](#)

Type	Protocol	Port range	Destination	Description - optional
All traffic	All	All	Custom	

[Add rule](#)

**Tags - optional**

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tags

[Cancel](#) [Create security group](#)

## Step 3: Launch an EC2 Instance

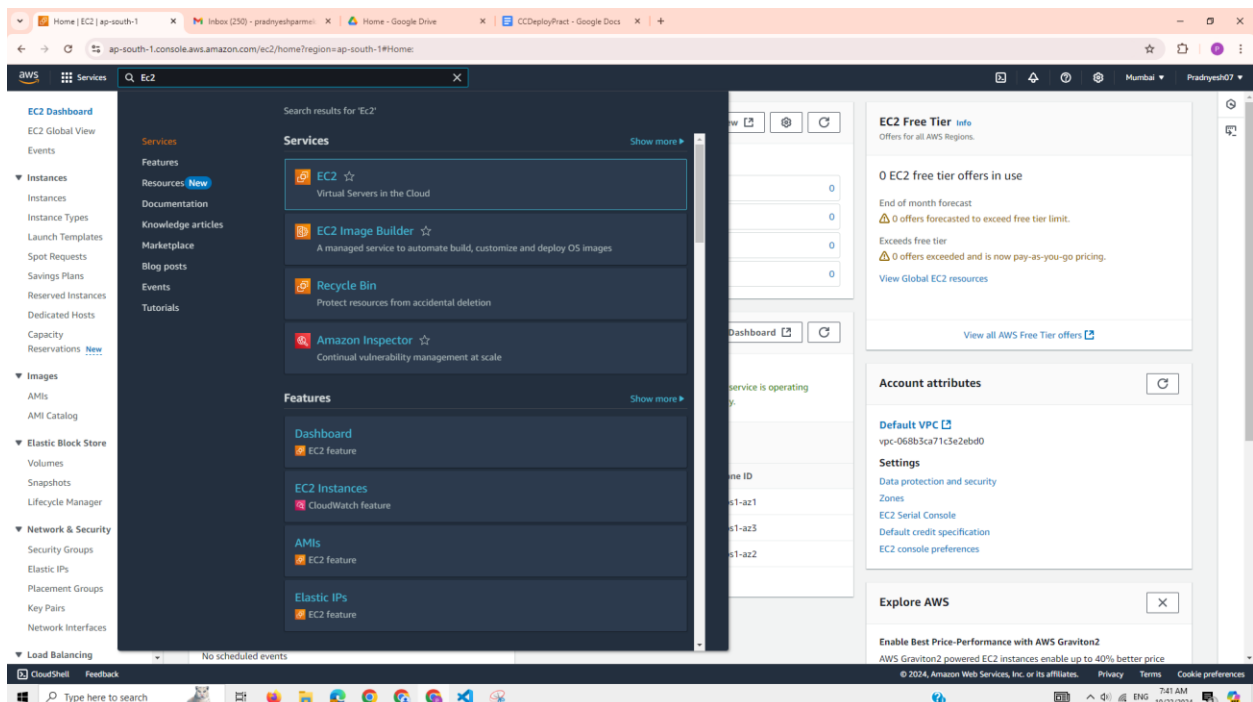
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- Search for “EC2” in the AWS Management Console and select it.
- Click “Launch Instance.”
- Give your EC2 instance a name.
- Choose Amazon Linux 2 as the Amazon Machine Image.
- Select t2.micro as the instance type.
- Create a new key pair and choose the .pem format.
- Select your key pair and the security group you created.
- Launch the instance and wait for it to pass the status check.



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Launch an instance

Launch an instance

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

Name

PradnyeshWebServer

Add additional tags

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

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

Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Linux

Browse more AMIs

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-04a37924ffe27da53 (64-bit (x86), uefi-preferred) / ami-0846b753e2a9f0dafe (64-bit (Arm), uefi)

Free tier eligible

Description

Amazon Linux 2023 is a modern, general purpose Linux-based OS that comes with 5 years of long term support. It is optimized for AWS and designed to provide a secure, stable and high-performance execution environment to develop and run your cloud applications.

Architecture

64-bit (x86)

Boot mode

uefi-preferred

AMI ID

ami-04a37924ffe27da53

Username

ec2-user

Verified provider

Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

Free tier eligible

All generations

Compare instance types

Additional costs apply for AMIs with pre-installed software

Key pair (login)

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...read more

ami-04a37924ffe27da53

Virtual server type (instance type)

t2.micro

Firewall (security group)

PraddDeploySecure

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 AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel

Launch instance

Preview code

Amazon Linux

macOS

ubuntu

Microsoft

Red Hat

SUSE Linux

Browse more AMIs

Amazon Machine Image (AMI)

Amazon Linux 2023 AMI

ami-04a37924ffe27da53 (64-bit (x86), uefi-preferred) / ami-0846b753e2a9f0dafe (64-bit (Arm), uefi)

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Cancel

Launch instance

Preview code

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Instance type

t2.micro

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0124 USD per Hour

On-Demand Windows base pricing: 0.017 USD per Hour

On-Demand RHEL base pricing: 0.0268 USD per Hour

On-Demand SUSE base pricing: 0.0124 USD per Hour

Free tier eligible

All generations

Compare instance types

Key pair (login)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Pradd

Create new key pair

Proceed without a key pair (Not recommended)

Default value

Pradd

Type: rsa

Edit

Network

vpc-068b3ca71c3e2ebd0

Subnet

No preference (Default subnet in any availability zone)

Auto-assign public IP

Enable

Additional charges apply when outside of free tier allowance

Firewall (security groups)

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

Common security groups

Select security groups

PraddDeploySecure sg-0a3a00e2c509b2519

VPC: vpc-068b3ca71c3e2ebd0

Compare security group rules

Security groups that you add or remove here will be added to or removed from all your network interfaces.

Configure storage

1x 8 GiB gp3 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GiB of EBS General Purpose (SSD) or Magnetic storage

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.6.2...read more

ami-04a379249fc27da53

Virtual server type (instance type)

t2.micro

Firewall (security group)

PraddDeploySecure

Storage (volumes)

1 volume(s) - 8 GiB

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Cancel

Launch instance

Preview code

Instances (1)

Find Instance by attribute or tag (case-sensitive)

All states

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input type="checkbox"/>	PradnyeshWe...	i-03d69206f7502ddef	Running	t2.micro	Initializing	View alarms +	ap-south-1a

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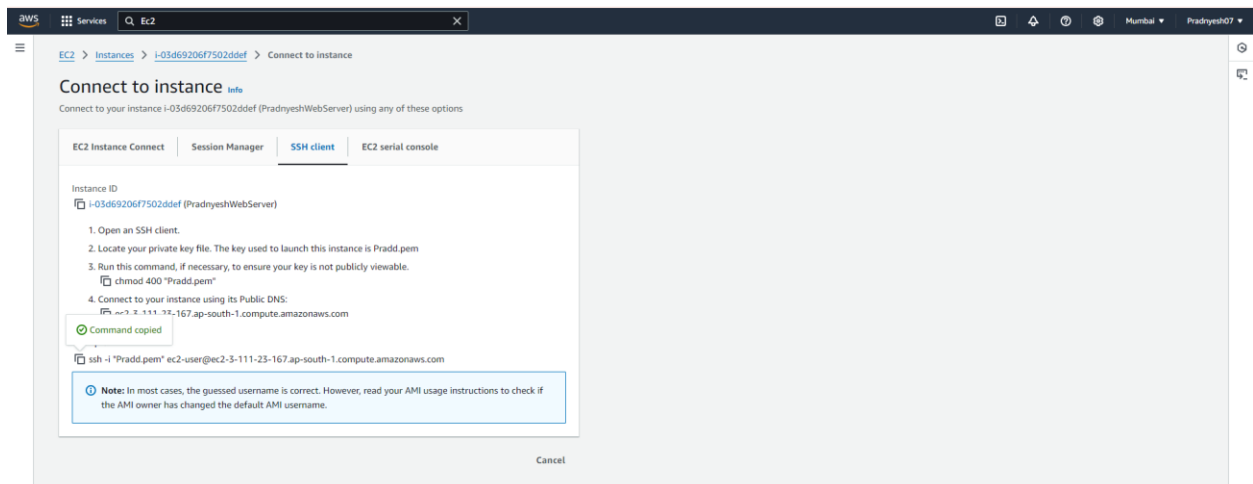
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### Step 4: SSH into the Instance

- Copy the public IPv4 address of the EC2 instance from the details section.
- Use an SSH client to connect to the instance by pasting the SSH command in your terminal or GitBash, replacing “web-key.pem” with the correct path and the IPv4 address.
- Type “yes” to continue when prompted.



### Step 5: Install Required Software



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- Once logged into the instance, become the root user using the command “sudo -i.”
- Update the instance with “yum update -y.”
- Install the Apache service with “yum install httpd -y.”
- Change to the HTML directory with “cd /var/www/html.”
- Download your desired HTML template using “wget <download link>.”
- Unzip the downloaded folder with “unzip <folder name>.”

[illegible]

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```
[ec2-user@ip-172-31-4-238 ~]$ sudo -i
[root@ip-172-31-4-238 ~]# yum install httpd -y
Last metadata expiration check: 0:03:28 ago on Thu Oct 24 15:46:19 2024.
Dependencies resolved.

=====
Package                                Architecture      Version            Repository          Size
=====
Installing:
httpd                                  x86_64            2.4.62-1.amzn2023  amazonlinux         48 k
Installing dependencies:
apr                                    x86_64            1.7.2-2.amzn2023.0.2  amazonlinux         129 k
apr-util                              x86_64            1.6.3-1.amzn2023.0.1  amazonlinux         98 k
generic-logos-httpd                  noarch            18.0.0-12.amzn2023.0.3  amazonlinux         19 k
httpd-core                            x86_64            2.4.62-1.amzn2023    amazonlinux         1.4 M
httpd-filesystem                     noarch            2.4.62-1.amzn2023    amazonlinux         14 k
httpd-tools                          x86_64            2.4.62-1.amzn2023    amazonlinux         81 k
libbrotli                             x86_64            1.0.9-4.amzn2023.0.2  amazonlinux         315 k
mailcap                              noarch            2.1.49-3.amzn2023.0.3  amazonlinux         33 k
Installing weak dependencies:
apr-util-openssl                     x86_64            1.6.3-1.amzn2023.0.1  amazonlinux         17 k
mod_http2                             x86_64            2.0.27-1.amzn2023.0.3  amazonlinux        166 k
=====

[root@ip-172-31-4-238 html]# wget https://www.tooplate.com/download/2135_mini_finance
--2024-10-24 16:33:28-- https://www.tooplate.com/download/2135_mini_finance
Resolving www.tooplate.com (www.tooplate.com)... 72.52.176.250
Connecting to www.tooplate.com (www.tooplate.com)|72.52.176.250|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://www.tooplate.com/zip-templates/2135_mini_finance.zip [following]
--2024-10-24 16:33:29-- https://www.tooplate.com/zip-templates/2135_mini_finance.zip
Reusing existing connection to www.tooplate.com:443.
HTTP request sent, awaiting response... Read error (The request is invalid.) in headers.
Retrying.

--2024-10-24 16:33:30-- (try: 2) https://www.tooplate.com/zip-templates/2135_mini_finance.zip
Connecting to www.tooplate.com (www.tooplate.com)|72.52.176.250|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 646518 (631K) [application/zip]
Saving to: '2135_mini_finance'

2135_mini_finance      100%[=====>] 631.37K   421KB/s   in 1.5s

2024-10-24 16:33:32 (421 KB/s) - '2135_mini_finance' saved [646518/646518]

[root@ip-172-31-4-238 html]# mv 2135_mini_finance 2135_mini_finance_backup
[root@ip-172-31-4-238 html]# unzip 2135_mini_finance.zip
unzip: cannot find or open 2135_mini_finance.zip, 2135_mini_finance.zip.zip or 2135_mini_finance.zip.ZIP.
[root@ip-172-31-4-238 html]# unzip 2135_mini_finance
unzip: cannot find or open 2135_mini_finance, 2135_mini_finance.zip or 2135_mini_finance.ZIP.
[root@ip-172-31-4-238 html]# unzip 2135_mini_finance_backup
Archive: 2135_mini_finance_backup
  creating: 2135_mini_finance/
  creating: 2135_mini_finance/css/
  inflating: 2135_mini_finance/css/apexcharts.css
  inflating: 2135_mini_finance/css/bootstrap-icons.css
  inflating: 2135_mini_finance/css/bootstrap.min.css
  inflating: 2135_mini_finance/css/tooplate-mini-finance.css
  creating: 2135_mini_finance/fonts/
  inflating: 2135_mini_finance/fonts/bootstrap-icons.woff
  inflating: 2135_mini_finance/fonts/bootstrap-icons.woff2
  inflating: 2135_mini_finance/help-center.html
  creating: 2135_mini_finance/images/
  inflating: 2135_mini_finance/images/credit-card.png
```

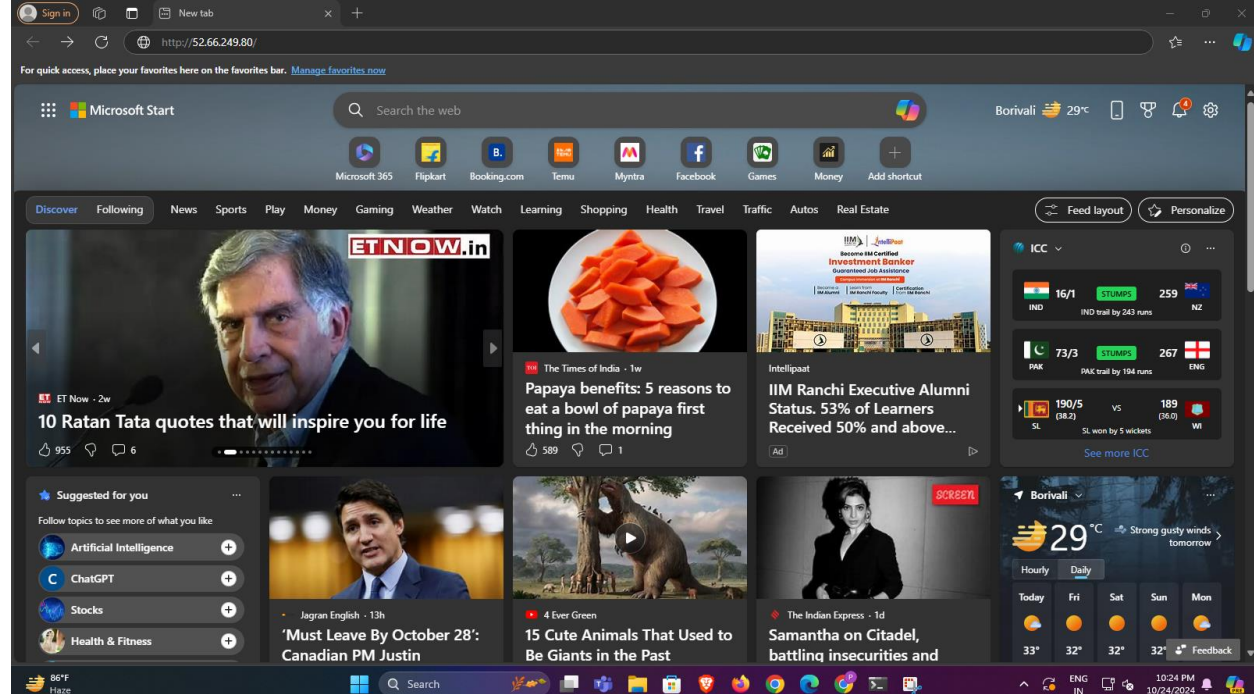
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```
inflating: 2135_mini_finance/images/social/search.png
inflating: 2135_mini_finance/images/social/snapchat.png
inflating: 2135_mini_finance/images/social/spotify.png
inflating: 2135_mini_finance/images/social/telegram.png
inflating: 2135_mini_finance/images/social/tiktok.png
inflating: 2135_mini_finance/images/social/youtube.png
inflating: 2135_mini_finance/index.html
creating: 2135_mini_finance/js/
inflating: 2135_mini_finance/js/.DS_Store
inflating: 2135_mini_finance/js/apexcharts.min.js
inflating: 2135_mini_finance/js/bootstrap.bundle.min.js
inflating: 2135_mini_finance/js/custom.js
inflating: 2135_mini_finance/js/jquery.min.js
inflating: 2135_mini_finance/profile.html
inflating: 2135_mini_finance/setting.html
inflating: 2135_mini_finance/transation-detail.html
inflating: 2135_mini_finance/wallet.html
inflating: 2135_mini_finance/ABOUT THIS TEMPLATE.txt
[root@ip-172-31-4-238 html]# cp -r 2135_mini_finance_backup /var/www/html
cp: '2135_mini_finance_backup' and '/var/www/html/2135_mini_finance_backup' are the same file
[root@ip-172-31-4-238 html]# cp -r 2135_mini_finance_backup/* /var/www/html
cp: cannot stat '2135_mini_finance_backup/*': Not a directory
[root@ip-172-31-4-238 html]# cp -r 2135_mini_finance/* /var/www/html
[root@ip-172-31-4-238 html]# ls
2135_mini_finance      css                    images                 profile.html           wallet.html
2135_mini_finance_backup  fonts                 index.html             setting.html
'ABOUT THIS TEMPLATE.txt'  help-center.html     js                    transation-detail.html
[root@ip-172-31-4-238 html]# systemctl enable httpd
[root@ip-172-31-4-238 html]# systemctl start httpd
```

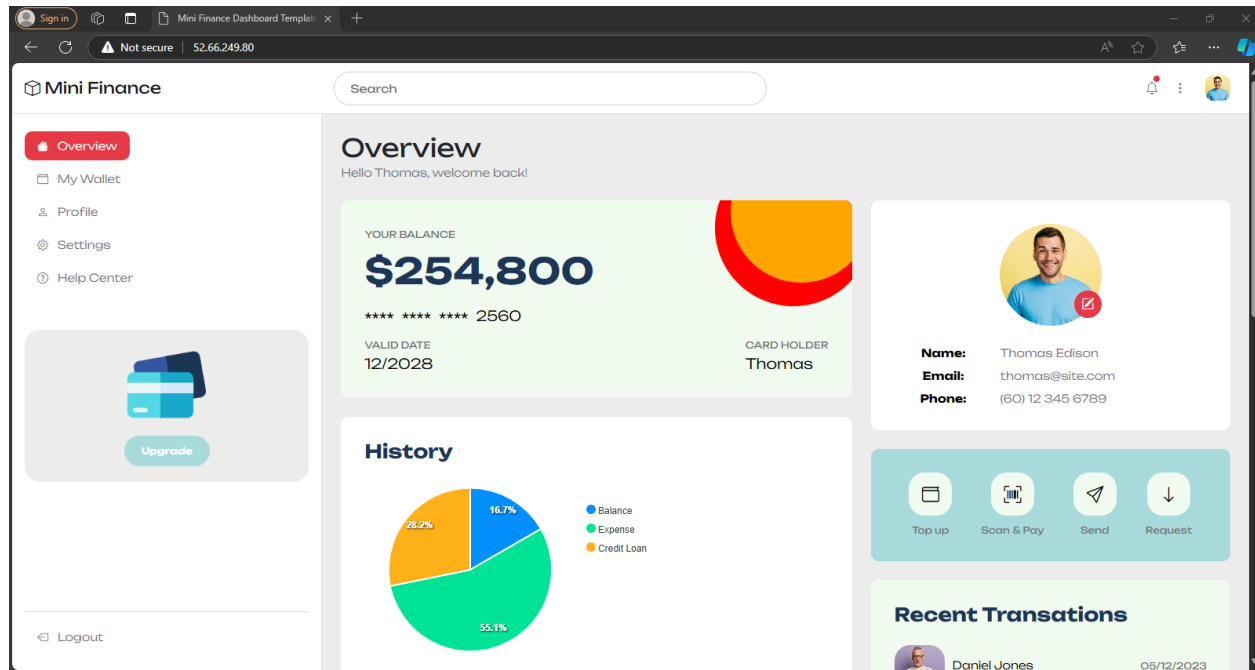


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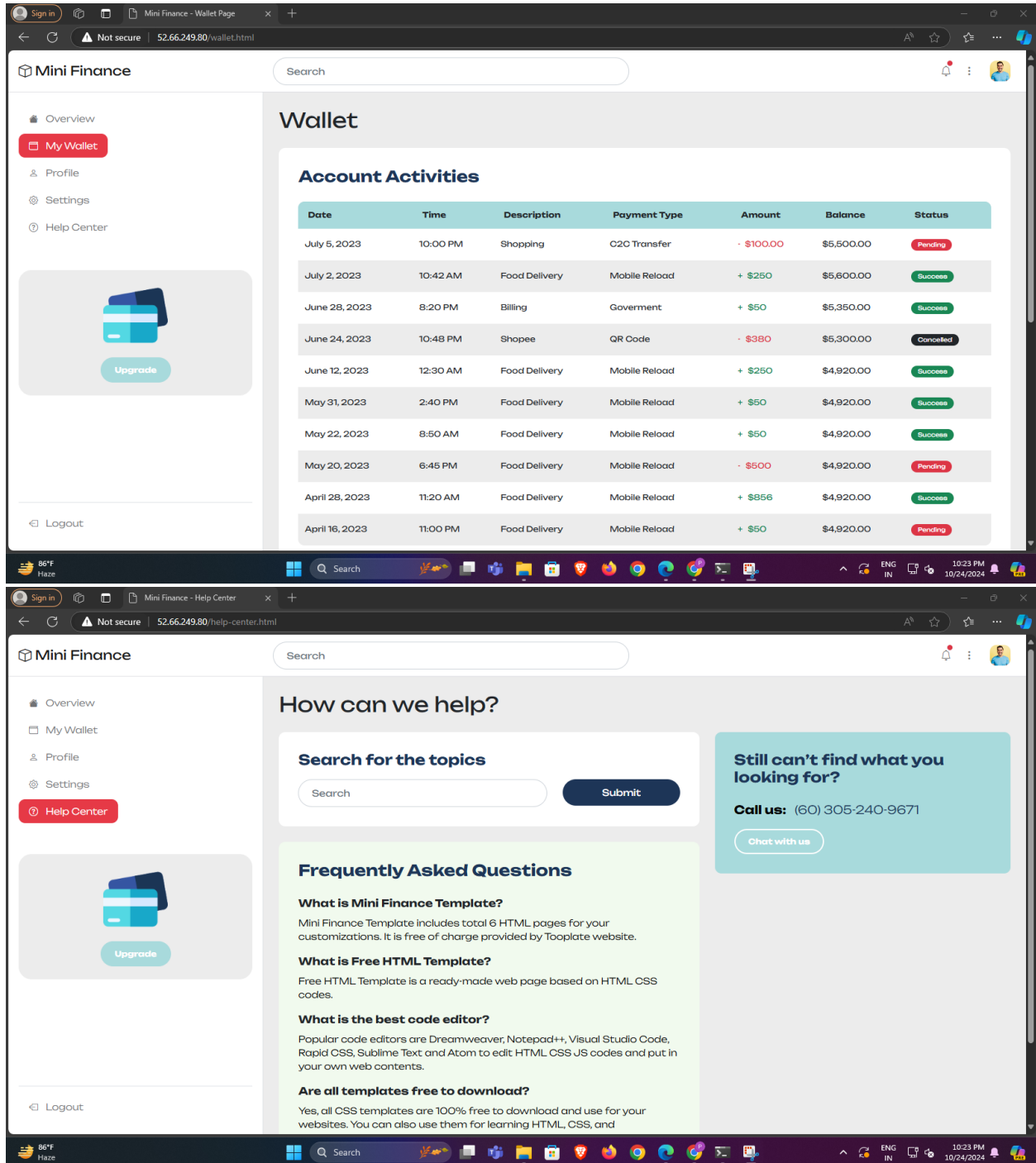


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Firebase

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Firestore

BuildRunSolutionsPricingDocsCommunitySupport

Search

Language

Go to console

P

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# Make your app the best it can be with Firebase and generative AI

Firestore


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×

Create a project

## Let's start with a name for your project<sup>®</sup>

Project name

**MyReactAppPradd**

[myreactapppradd](#)

☒ I accept the [Firebase terms](#).

☒ I confirm that I will use Firebase exclusively for purposes relating to my trade, business, craft, or profession.

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