

## SCREEN SHOTS:

This screenshot shows a web-based AWS certification lab interface. At the top, it displays "Full Stack Java Developer Capstone Project" with "1 Class completed | 100% Self-Learning Videos Watched | 0/5 Projects Done". A "COMMUNITY" button is visible in the top right. The main content area is titled "Current Lab : AWS Certification - Dedicated Account". It includes tabs for "Access Information", "Lab Details", "Components", "Log Details", and "Usage Details". Under "Access Information", there are two cards: "AWS Web Console" and "AWS API Access". Below these, an "Auth Url" field contains the URL <https://signin.aws.amazon.com/fec>. A "Session Expires in: 7h 59m 46s" message is displayed next to a refresh link. To the right, a sidebar provides details about the lab: "AWS Certification - Dedicated Account", "Category: Cloud Computing", "Start Date: 2022-04-04 09:22", "End Date: 2022-04-05 02:14", and "Code: SLAWS". A descriptive text block explains that AWS offers a suite of cloud-computing services.

This screenshot shows the AWS console home page. The top navigation bar includes links for "Gmail", "YouTube", "Maps", and the AWS logo. A search bar is present with the placeholder "Search for services, features, blogs, docs, and more". The top right shows "Actions" and user information for "N. Virginia" and "Corestack\_Role/harsha.m\_mphas". The main content area is titled "Console Home". On the left, a "Recently visited" sidebar lists services: EC2, RDS, AWS Application Cost Profiler, AWS Backup, Elastic Kubernetes Service, S3, and IAM. On the right, a "Welcome to AWS" section features three cards: "Getting started with AWS" (with a rocket icon), "Training and certification" (with a person icon), and "What's new with AWS?" (with a lightbulb icon). Each card has a brief description and a "Learn more" link.

This screenshot shows the AWS EC2 dashboard. The top navigation bar includes links for "Gmail", "YouTube", "Maps", and the AWS logo. A search bar is present with the placeholder "Search for services, features, blogs, docs, and more". The top right shows "Actions" and user information for "N. Virginia" and "Corestack\_Role/harsha.m\_mphas". The main content area is titled "EC2 Dashboard". On the left, a sidebar shows "New EC2 Experience" (with a "Learn more" link) and lists "EC2 Dashboard", "EC2 Global View", "Events", "Tags", "Limits", and "Instances". Under "Instances", "Instances" is highlighted in orange. The main pane shows a table header for "Launch Instance", "Connect", and "Actions". The table itself is titled "Instance State: Running" and includes columns for "Name", "Instance ID", "Instance Type", "Availability Zone", "Instance State", "Status Checks", "Alarm Status", "Public DNS (IPv4)", and "IPv6". A message at the bottom states "No Instances found matching your filter criteria".

Step 1: Choose an Amazon Machine Image (AMI)

In AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

**Quick Start**

- My AMIs
- AWS Marketplace
- Community AMIs
- Free tier only

AMI Name	Description	Root device type	Virtualization type	ENAs Enabled	Select
Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-0d5e10f9840b45e9 (64-bit x86) / ami-09d19e919d57453f (64-bit Arm)	Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemv 2.19, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.	ebs	hvm	ENAs Enabled: Yes	<input checked="" type="radio"/> 64-bit (x86)
macOS Big Sur 11.4 - ami-0459dfb36df3c50a5	The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.	ebs	hvm	ENAs Enabled: Yes	<input type="radio"/> 64-bit (Mac)
macOS Catalina 10.15.7 - ami-04c57fb416ca98499	The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.	ebs	hvm	ENAs Enabled: Yes	<input type="radio"/> 64-bit (Mac)
macOS Mojave 10.14.6 - ami-075723d78ced20b6	The macOS Mojave AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.	ebs	hvm	ENAs Enabled: Yes	<input type="radio"/> 64-bit (Mac)
Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0b0af3577fe5e3532 (64-bit x86) / ami-01fc429821bf1f4b4 (64-bit Arm)	Red Hat Enterprise Linux version 8 (HVM), EBS General Purpose (SSD) Volume Type	ebs	hvm	ENAs Enabled: Yes	<input type="radio"/> 64-bit (x86)

**Explore AWS**

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

Gmail YouTube Maps

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

N. Virginia Corestack\_Role/harsha.m\_mphasis @ 3105-0965-0

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
t2	<b>t2.micro</b> <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes

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

Gmail YouTube Maps

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

N. Virginia Corestack\_Role/harsha.m\_mphasis @ 3105-0965-0772

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances	1	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-08b4d2b146433042f (default)	<input type="radio"/> Create new VPC
Subnet	No preference (default subnet in any Availability Zone)	<input type="radio"/> Create new subnet
Auto-assign Public IP	Use subnet setting (Enable)	
Hostname type	Use subnet setting (IP name)	
DNS Hostname	<input type="checkbox"/> Enable IP name IPv4 (A record) DNS requests <input checked="" type="checkbox"/> Enable resource-based IPv4 (A record) DNS requests <input type="checkbox"/> Enable resource-based IPv6 (AAAA record) DNS requests	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	Open	
Domain join directory	No directory	

Cancel Previous Review and Launch Next: Add Storage

Click next

<https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard>

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0f7a6ae6d90437c4	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.

▼ Shared file systems

You currently don't have any file systems on this instance. Select "Add file system" button below to add a file system.

Add file system

Cancel Previous Review and Launch Next: Add Tags

<https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard>

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.  
A copy of a tag can be applied to volumes, instances or both.  
Tags will be applied to all instances and volumes. Learn more about tagging your Amazon EC2 resources.

Key	(128 characters maximum)	Value	(256 characters maximum)	Instances	Volumes	Network Interfaces
Name	FoodboxCapstone			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel Previous Review and Launch Next: Configure Security Group

Giving security group name and description

**Step 6: Configure Security Group**

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:  Create a new security group  
 Select an existing security group

**Security group name:** FoodboxCapstone  
⚠ A security group name is required.

**Description:** FoodboxCapstone created 2022-04-04T18:17:33.624+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	My IP	157.50.40.144/32
HTTP	TCP	80	Custom	0.0.0.0/0
All TCP	TCP	0 - 65535	Custom	0.0.0.0/0

**Add Rule**

**Warning**  
 Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

**Cancel** **Previous** **Review and Launch**

**Select an existing key pair or create a new key pair**

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. To allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn about removing existing key pairs from a public AMI.

Create a new key pair  
 RSA  ED25519  
**Key pair name**: FoodboxCapstone  
**Download Key**

You have to download the **private key file** (\*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again.

**launch**

**Launch Status**

**Your instances are now launching**  
 The following instance launches have been initiated: i-014d0c57b05a30017 [View launch log](#)

**Get notified of estimated charges**  
[Create billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

**How to connect to your instances**

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started:

- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

We can see here instance has been created

The screenshot shows the AWS EC2 Management Console. On the left, there's a sidebar with options like EC2 Dashboard, Events, Tags, Limits, and Instances (which is selected). Under Instances, 'Instances' is also selected. The main area displays a table of instances. One row is highlighted, showing an instance named 'FoodboxCap...' with the ID i-014d0c57b05a30017, type t2.micro, and state pending. It also shows the Public DNS (IPv4) as ec2-3-92-23-167.compute-1.amazonaws.com and the IPv4 Public IP as 3.92.23.167.

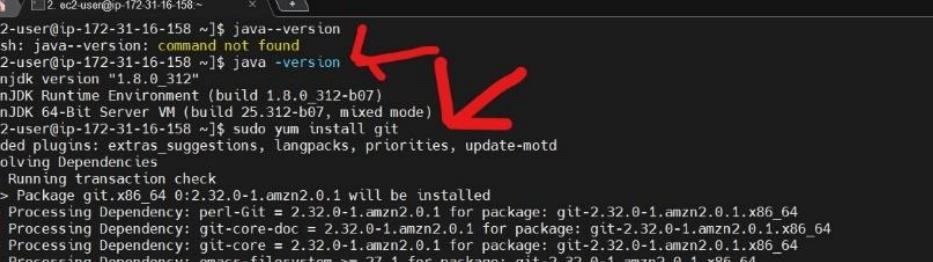
Click on connect this will open copy ssh

This screenshot shows the 'Connect to your instance' dialog box overlaid on the EC2 Management Console. The dialog box has two tabs: 'Connection method' (selected) and 'To access your instance'. Under 'Connection method', it shows three options: 'A standalone SSH client' (selected), 'Session Manager', and 'EC2 Instance Connect (browser-based SSH connection)'. Under 'To access your instance', it provides instructions for using PutTY, locating the private key file (FoodboxCapstone.pem), and connecting using the Public DNS (ec2-3-92-23-167.compute-1.amazonaws.com). There's also an 'Example:' section with the command 'ssh -i "FoodboxCapstone.pem" ubuntu@ec2-3-92-23-167.compute-1.amazonaws.com'. A note says to ensure the AMI owner hasn't changed the default AMI username. At the bottom right of the dialog is a 'Close' button.

Move to the folder where .pem placed once opening mobaxterm

Its prompt [y/n] type y

```
ec2-user@ip-172-31-16-158:~$ Terminal Sessions View Xserver Tools Games Settings Macros Help Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help Quick commands [2: ec2-user@ip-172-31-16-158 ~] x * mesa-l1-lbglapi x86_64 18.3.4-5.amzn2.0.1 amzn2-core 45 k pango x86_64 1.42.4-4.amzn2 amzn2-core 288 k pscs-lite-tlbs x86_64 1.8.8-7.amzn2 amzn2-core 35 k pixman x86_64 0.34.0-1.amzn2.0.2 amzn2-core 254 k python-javapackages noarch 3.4.1-11.amzn2 amzn2-core 31 k python-xml x86_64 3.2.1-4.amzn2.0.3 amzn2-core 1.1 M tunkrfd x86_64 3.0.3-1.amzn2.0.2 amzn2-core 59 k tzdata-java noarch 2021e-1.amzn2 amzn2-core 198 k xorg-x11-font-utils x86_64 1:7.5-23.amzn2 amzn2-core 183 k xorg-x11-fonts-Type1 noarch 7.5-9.amzn2 amzn2-core 521 k Transaction Summary == Install 1 Package (+63 Dependent packages) Total download size: 47 M Installed size: 154 M [1:53s later] (1:53s download/1:53s install) Downloading packages: (1/64): atk-2.22.0-3.amzn2.0.2.x86_64.rpm | 258 kB 00:00:00 (2/64): alsalib-1.1.4-2.amzn2.x86_64.rpm | 425 kB 00:00:00 (3/64): avahi-libc-0.6.31-20.amzn2.x86_64.rpm | 61 kB 00:00:00 (4/64): copy-jdk-configs-3.3-10.amzn2.noarch.rpm | 21 kB 00:00:00 (5/64): cairo-1.15.12-4.amzn2.x86_64.rpm | 732 kB 00:00:00 (6/64): cups-lbts-1.6.3-51.amzn2.x86_64.rpm | 356 kB 00:00:00 (7/64): dejavu-fonts-common-2.33-6.amzn2.noarch.rpm | 64 kB 00:00:00 (8/64): fontconfig-2.13.0-4.3.amzn2.x86_64.rpm | 253 kB 00:00:00 (9/64): fontpackages-telepathy-0.1.1-1.amzn2.noarch.rpm | 11 kB 00:00:00 (10/64): dejavu-fonts-common-2.33-6.amzn2.noarch.rpm | 1.4 MB 00:00:00 (11/64): frribidi-1.0.2-1.amzn2.1.x86_64.rpm | 79 kB 00:00:00 (12/64): giflib-4.1.6-9.amzn2.0.2.x86_64.rpm | 40 kB 00:00:00 (13/64): graphite2-1.3-10.1.amzn2.0.2.x86_64.rpm | 115 kB 00:00:00 (14/64): gtk-update-icon-cache-3.22.30-3.amzn2.x86_64.rpm | 26 kB 00:00:00 (15/64): gdk-pixbuf2-2.36.12-3.amzn2.x86_64.rpm | 568 kB 00:00:00 (16/64): harfbuzz-1.7.5-2.amzn2.x86_64.rpm | 279 kB 00:00:00 (17/64): hicolor-icon-theme-0.12-7.amzn2.noarch.rpm | 43 kB 00:00:00 (18/64): jasper-lbts-1.990.1-33.amzn2.x86_64.rpm | 158 kB 00:00:00 (19/64): javaw-8.0-openjdk-8.0.201-b07-1.amzn2.0.2.x86_64.rpm | 319 kB 00:00:00 (20/64): glib2-2.62.4-10.amzn2.x86_64.rpm | 34 kB 00:00:00 (21/64): javapackages-tools-3.4.1-11.amzn2.noarch.rpm | 73 kB 00:00:00 (22/64): libICE-1.0.9-9.amzn2.0.2.x86_64.rpm | 67 kB 00:00:00 (23/64): libSM-1.2.2-2.amzn2.0.2.x86_64.rpm | 39 kB 00:00:00
```



```
[ec2-user@ip-172-31-16-158 ~]$ java--version  
bash: java--version: command not found  
[ec2-user@ip-172-31-16-158 ~]$ java -version  
openjdk version "1.8.0_312"  
OpenJDK Runtime Environment (build 1.8.0_312-b07)  
OpenJDK 64-Bit Server VM (build 25.312-b07, mixed mode)  
[ec2-user@ip-172-31-16-158 ~]$ sudo yum install git  
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd  
Resolving Dependencies  
--> Running transaction check  
---> Package git.x86_64 0:2.32.0-1.amzn2.0.1 will be installed  
---> Processing Dependency: perl-Git = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Processing Dependency: git-core-doc = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Processing Dependency: git-core = 2.32.0-1.amzn2.0.1 for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Processing Dependency: emacs-filesystem >= 27.1 for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Processing Dependency: perl(Term::ReadKey) for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Processing Dependency: perl(I18N) for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Processing Dependency: perl(Git) for package: git-2.32.0-1.amzn2.0.1.x86_64  
---> Running transaction check  
---> Package emacs-filesystem.noarch 1:27.2-4.amzn2.0.1 will be installed  
---> Package git<core.x86_64 0:2.32.0-1.amzn2.0.1 will be installed  
---> Package git<core-doc.noarch 0:2.32.0-1.amzn2.0.1 will be installed  
---> Package perl-Git.noarch 0:2.32.0-1.amzn2.0.1 will be installed  
---> Processing Dependency: perl(Error) for package: perl-Git-2.32.0-1.amzn2.0.1.noarch  
---> Package perl-TermReadKey.x86_64 0:2.30-20.amzn2.0.2 will be installed  
---> Running transaction check  
---> Package perl-Error.noarch 1:0.17020-2.amzn2 will be installed  
---> Finished Dependency Resolution
```

Dependencies Resolved

Its prompt [y/n] type y

```
ec2-user@ip-172-31-16-158:~$ 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 conn: 2. ec2-user@ip-172-31-16-158 ~  
Total download size: 7.8 M  
Installed size: 38 M  
Is this ok [y/N/n]: y  
Downloaded: 1/7: git+core+filesystem-27.2-4.amzn2.0.1.noarch.rpm | 67 kB 00:00:00  
  .git+core+fs-27.2-4.amzn2.0.1.x86_64.rpm | 126 kB 00:00:00  
  (2/7): git+core+fs-2.32.0-1.amzn2.0.1.x86_64.rpm | 4.8 MB 00:00:00  
  (3/7): git+core+fs-2.32.0-1.amzn2.0.1.x86_64.rpm | 32 kB 00:00:00  
  (4/7): perl+Error-0.17020-2.amzn2.noarch.rpm | 43 kB 00:00:00  
  (5/7): perl+Git+2.32.0-1.amzn2.0.1.noarch.rpm | 2.7 MB 00:00:00  
  (6/7): git+core+doc-2.32.0-1.amzn2.0.1.noarch.rpm | 31 kB 00:00:00  
  (7/7): perl+TermReadKey-2.38-20.amzn2.0.2.x86_64.rpm  
Total: 18 MB/s | 7.8 MB 00:00:00  
Running transaction check  
Running transaction test  
Transaction test succeeded  
Running transaction  
  Installing : git+core+fs-2.32.0-1.amzn2.0.1.x86_64 1/7  
  Installing : git+core+doc-2.32.0-1.amzn2.0.1.noarch 2/7  
  Installing : perl+Error-0.17020-2.amzn2.noarch 3/7  
  Installing : perl+Git+2.32.0-1.amzn2.0.1.noarch 4/7  
  Installing : perl+TermReadKey-2.38-20.amzn2.0.2.x86_64 5/7
```

```
ec2-user@ip-172-31-16-158:~$ perl-Git.noarch 0:2.32.0-0.1.amzn2.0.1 perl-TermReadKey.x86_64 0:2.30-29.amzn2.0.2
Complete!
[ec2-user@ip-172-31-16-158 ~]$ git --version
git version 2.32.0
[ec2-user@ip-172-31-16-158 ~]$ sudo yum install maven
Loading mirror speeds from cached host if available...
Resolving Dependencies
  Running transaction check
  => Package maven.noarch 0:3.0.5-17.amzn2 will be installed
--> Processing Dependency: sisu-inject-plexus for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: sisu-inject-bean for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: plexus-utils for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: plexus-select-dispatcher for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: plexus-interpolation for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: plexus-component-annotations for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: aether-util for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: aether for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.sisu:sisu-inject-plexus) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.plexus:plexus-dispatcher) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.plexus:plexus-cipher) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.aether:aether-util) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.aether:aether-spi) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.aether:aether-impl) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.sonatype.aether:aether-apr) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.codehaus.plexus:plexus-interpolator) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.codehaus.plexus:plexus-interpolator-default) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.codehaus.plexus:plexus-component-annotations) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn(org.codehaus.plexus:plexus-classworlds) for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: mvn/commons-clients/commons-client for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: maven-wagon for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: java-devel for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: httpcomponents-core for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: httpcomponents-client for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: google-guice for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: glib for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: atinject for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: apache-commons-logging for package: maven-3.0.5-17.amzn2.noarch
--> Processing Dependency: apache-commons-codec for package: maven-3.0.5-17.amzn2.noarch
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>



Its prompt [y/n] type y

```

[ec2-user@ip-172-31-16-158 ~]$ sudo yum install jenkins
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
jenkins
jenkins/primary_db
Resolving Dependencies
--> Running transaction check
-->> Package jenkins.noarch 0:2.332.1-1.1 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version
=====
Installing:
jenkins          noarch   2.332.1-1.1

Transaction Summary
=====
Install 1 Package

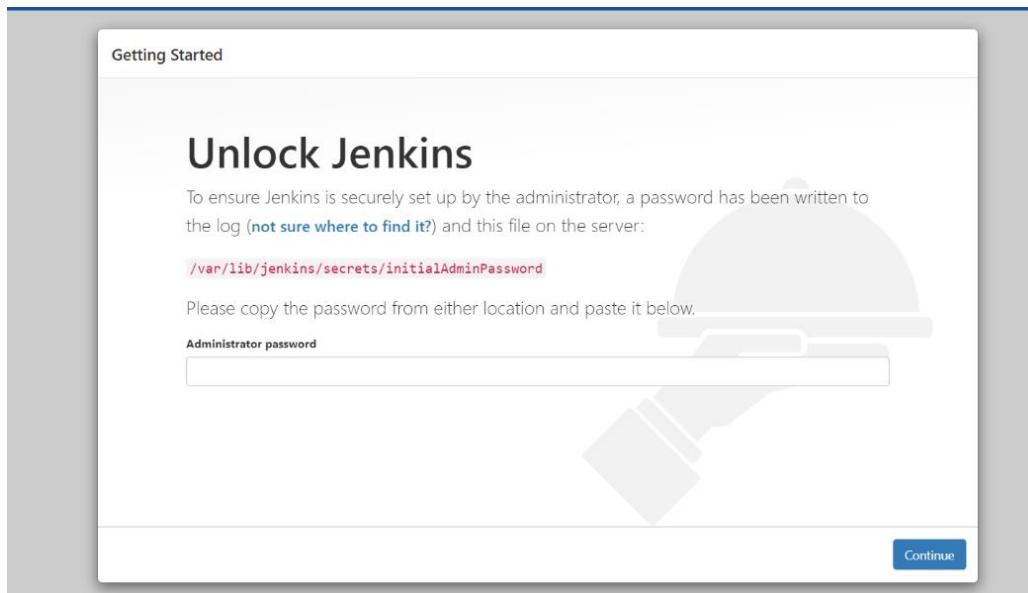
Total download size: 90 M
Installed size: 91 M
Is this ok [y/d/N]: y
Downloading packages:
jenkins-2.332.1-1.1.noarch.rpm
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : jenkins-2.332.1-1.1.noarch
  Verifying  : jenkins-2.332.1-1.1.noarch

Installed:
jenkins.noarch 0:2.332.1-1.1

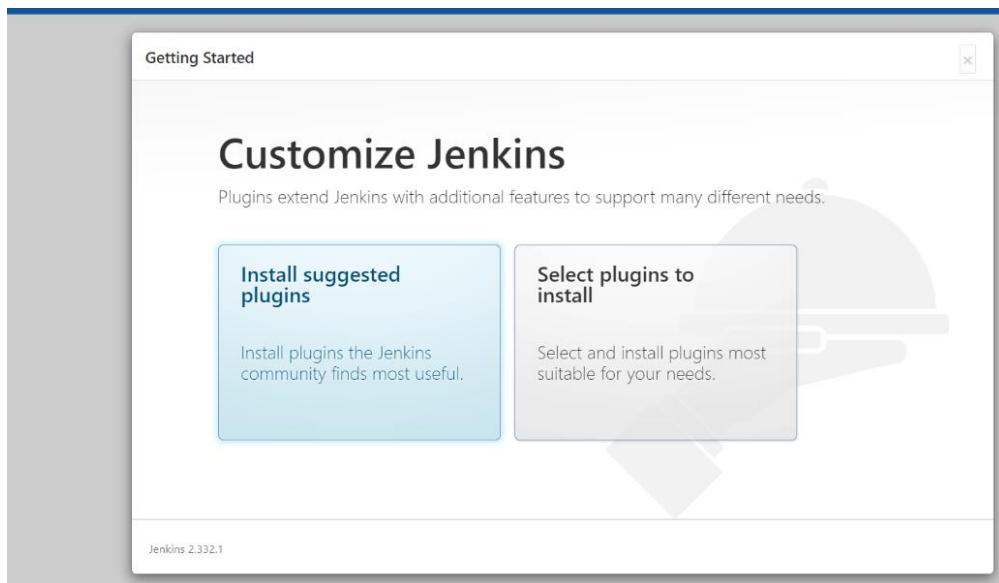
Complete!
[ec2-user@ip-172-31-16-158 ~]$ sudo systemctl start jenkins
[ec2-user@ip-172-31-16-158 ~]$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
8807dba9615d419d920a49692beef732
[ec2-user@ip-172-31-16-158 ~]$
```

UNREGISTERED VERSION - Please support MobayTerm by subscribing to the professional edition here: <https://mobayterm.mobatek.net>

After running in ipaddress + 8080



Click on suggested plugin



Click on pipeline give name of item then ok

Enter an item name  
FoodBoxRestaurant-Backend  
» Required field

**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**Folder**  
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

OK Cancel Pipeline

Give the name of repository

General Build Triggers Advanced Project Options Pipeline

**Pipeline**

**Definition**  
Pipeline script from SCM

**SCM** ?  
Git

**Repositories** ?  
Repository URL  
https://github.com/harsha734/Phase6/FoodBoxRestuarant-Backend  
Please enter Git repository.

**Credentials** ?  
- none - Add

## Rename master to main

Branches to build ?

Branch Specifier (blank for 'any') ?

\*/main

Add Repository

Add Branch

Repository browser ?

(Auto)

## Give name here

Not secure | http://23.22.225.90:8080/job/FoodBoxRestaurant-Backenddp/configure

Gmail YouTube Maps

Dashboard > FoodBoxRestaurant-Backenddp >

General Build Triggers Advanced Project Options Pipeline

Configure speed/ durability override

Preserve stashes from completed builds

This project is parameterized

Throttle builds

**Build Triggers**

Build after other projects are built

Build periodically

GitHub hook trigger for GITScm polling

Poll SCM

Disable this project

Quiet period

Trigger builds remotely (e.g., from scripts)

**Authentication Token**

FoodBoxRestaurant-Backend

Use the following URL to trigger build remotely: JENKINS\_URL/job/FoodBoxRestaurant-Backenddp/build?token=TOKEN\_NAME or /buildWithParameters?token=TOKEN\_NAME

Optional append &cause=Cause+Text to provide text that will be included in the recorded build cause.

**Advanced Project Options**

Advanced

## Give Maven version and name here

Maven Name

maven

Install automatically

Install from Apache Version

3.8.5

Add Installer

Save Apply

## Install docker here

```

ec2-user@ip-172-31-16-158:~$ sudo yum install docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
=====
===== N/S matched: docker =====
ppc-pmda-docker.x86_64 : Performance Co-Pilot (PCP) metrics from the Docker daemon
amazon-ecr-credential-helper.x86_64 : Amazon ECR Docker Credential Helper
docker.x86_64 : Automates deployment of containerized applications
oci-add-hooks.x86_64 : Injects OCI hooks as a Docker runtime

Name and summary matches only, use "search all" for everything.
[ec2-user@ip-172-31-16-158 ~]$ sudo yum install docker
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
---> Package docker.x86_64 0:20.10.7-5.amzn2 will be installed
--> Processing Dependency: runc >= 1.0.0 for package: docker-20.10.7-5.amzn2.x86_64
--> Processing Dependency: libcgroup >= 0.40.rc1-5.15 for package: docker-20.10.7-5.amzn2.x86_64
--> Processing Dependency: containerd >= 1.3.2 for package: docker-20.10.7-5.amzn2.x86_64
--> Processing Dependency: pigz for package: docker-20.10.7-5.amzn2.x86_64
--> Running transaction check
---> Package containerd.x86_64 0:1.4.6-8.amzn2 will be installed
---> Package libcgroup.x86_64 0:0.41-21.amzn2 will be installed
---> Package pigz.x86_64 0:2.3.4-1.amzn2.0.1 will be installed
---> Package runc.x86_64 0:1.0.0-2.amzn2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package           Arch      Version
=====

```

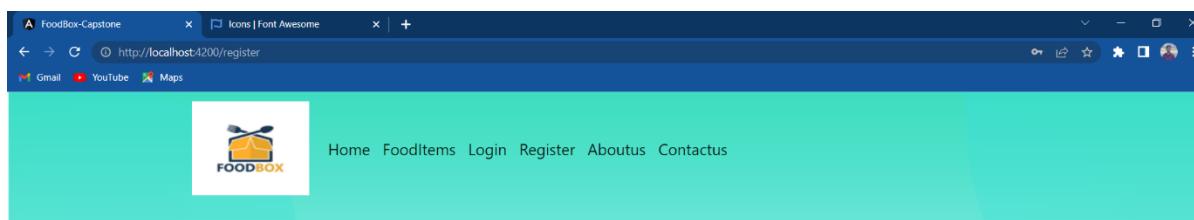
```

ec2-user@ip-172-31-16-158:~$ sudo yum install docker
Total download size: 69 M
Installed size: 285 M
Is this ok [y/d/N]: y
Downloading packages:
(1/5): libcgroup-0.41-21.amzn2.x86_64.rpm
(2/5): pigz-2.3.4-1.amzn2.0.1.x86_64.rpm
(3/5): containerd-1.4.6-8.amzn2.x86_64.rpm
(4/5): runc-1.0.0-2.amzn2.x86_64.rpm
(5/5): docker-20.10.7-5.amzn2.x86_64.rpm
-----
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : runc-1.0.0-2.amzn2.x86_64
  Installing : containerd-1.4.6-8.amzn2.x86_64
  Installing : libcgroup-0.41-21.amzn2.x86_64
  Installing : pigz-2.3.4-1.amzn2.0.1.x86_64
  Installing : docker-20.10.7-5.amzn2.x86_64
  Verifying   : docker-20.10.7-5.amzn2.x86_64
  Verifying   : containerd-1.4.6-8.amzn2.x86_64
  Verifying   : runc-1.0.0-2.amzn2.x86_64
  Verifying   : pigz-2.3.4-1.amzn2.0.1.x86_64
  Verifying   : libcgroup-0.41-21.amzn2.x86_64

Installed:
  docker.x86_64 0:20.10.7-5.amzn2

Dependency Installed:
  containerd.x86_64 0:1.4.6-8.amzn2           libcgroup.x86_64 0:0.41-21.amzn2           pigz.x86_64 0:2.3.4-1.amzn2.0.1

Complete!
[ec2-user@ip-172-31-16-158 ~]$ sudo systemctl start docker
[ec2-user@ip-172-31-16-158 ~]$ sudo usermod -a -G docker ec2-user
[ec2-user@ip-172-31-16-158 ~]$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
[ec2-user@ip-172-31-16-158 ~]$ sudo usermod -a -G docker jenkins
[ec2-user@ip-172-31-16-158 ~]$ 
```



### Register Here!!!

FirstName:	<input type="text" value="harsha"/>
LastName:	<input type="text" value="hars"/>
Email:	<input type="text" value="harsha@gmail.com"/>
SetPassword:	<input type="password" value="*****"/>
<input type="button" value="Submit"/>	

If Already registered ?? [Get Login](#)



← → ⌂ A http://localhost:4200/Fooditems

Gmail YouTube Maps

# FoodBox Restaurant



Home Fooditems Login Register Aboutus Contactus

Logout

Veg Non-Veg Snaks&Juice

Search here



← → ⌂ A http://localhost:4200/Fooditems

YouTube Maps

Chicken Biriyani

Cost:₹299.00

Rating:5

⊕ 1 ⊖

Add to Cart

Chicken Tikka

Cost:₹350.00

Rating:4.8

⊕ 1 ⊖

Add to Cart

Chicken Curry

Cost:₹75.00

Rating:5

⊕ 1 ⊖

Add to Cart

Veg Biriyani

Cost:₹100.00

Rating:5

⊕ 1 ⊖

Add to Cart



Veg Burger

Cost:₹150.00

Rating:5



Masala Dosa

Cost:₹250.00

Rating:5



Samosa

Cost:₹20.00

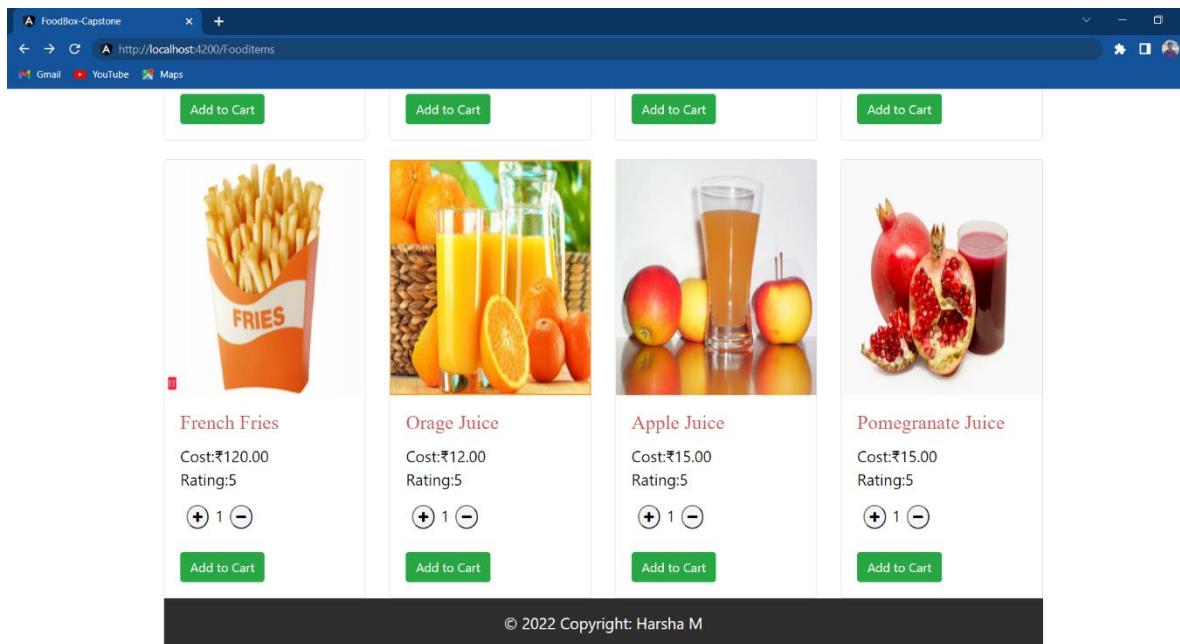
Rating:5



Chips

Cost:₹15.00

Rating:5



**we can search required food items here are demos**

A FoodBox-Capstone +  
A http://localhost:4200/Fooditems  
Gmail YouTube Maps

veg



Veg Biriyani  
Cost:₹100.00  
Rating:5  
+ 1 -  
[Add to Cart](#)



Veg Burger  
Cost:₹150.00  
Rating:5  
+ 1 -  
[Add to Cart](#)

© 2022 Copyright: Harsha M

A FoodBox-Capstone +  
A http://localhost:4200/Fooditems  
Gmail YouTube Maps

juice



Orage Juice  
Cost:₹12.00  
Rating:5  
+ 1 -  
[Add to Cart](#)



Apple Juice  
Cost:₹15.00  
Rating:5  
+ 1 -  
[Add to Cart](#)



Pomegranate Juice  
Cost:₹15.00  
Rating:5  
+ 1 -  
[Add to Cart](#)

© 2022 Copyright: Harsha M

A FoodBox-Capstone

http://localhost:4200/veg

Gmail YouTube Maps

Veg Non-Veg Snaks&Juice

Search here

			
<b>Veg Biriyani</b> Cost:₹100.00 Rating:5 <span style="border: 1px solid #ccc; padding: 2px;">+ 1 -</span>	<b>Veg Burger</b> Cost:₹40.00 Rating:5 <span style="border: 1px solid #ccc; padding: 2px;">+ 1 -</span>	<b>Masala Dosa</b> Cost:₹55.00 Rating:5 <span style="border: 1px solid #ccc; padding: 2px;">+ 1 -</span>	<b>Veg Fried Rice</b> Cost:₹80.00 Rating:4.5 <span style="border: 1px solid #ccc; padding: 2px;">+ 1 -</span>
<a href="#">Add to Cart</a>	<a href="#">Add to Cart</a>	<a href="#">Add to Cart</a>	<a href="#">Add to Cart</a>

A FoodBox-Capstone

http://localhost:4200/nonveg

Gmail YouTube Maps

Veg Non-Veg Snaks&Juice

Search here



Chicken Biryani

Cost:₹299.00  
Rating:5

+ 1 -

Add to Cart



Chicken Tikka

Cost:₹350.00  
Rating:4.8

+ 1 -

Add to Cart



Chicken Curry

Cost:₹75.00  
Rating:5

+ 1 -

Add to Cart



Chilli Chicken

Cost:₹75.00  
Rating:5

+ 1 -

Add to Cart

A FoodBox-Capstone

http://localhost:4200/snaksjuice

Gmail YouTube Maps

Veg Non-Veg Snaks&Juice

Search here



Samosa

Cost:₹20.00  
Rating:5

+ 1 -

Add to Cart



Chips

Cost:₹15.00  
Rating:5

+ 1 -

Add to Cart



French Fries

Cost:₹120.00  
Rating:5

+ 1 -

Add to Cart



Orage Juice

Cost:₹12.00  
Rating:5

+ 1 -

Add to Cart

A FoodBox-Capstone

http://localhost:4200/snaksjuice

Add to Cart Add to Cart Add to Cart Add to Cart

Apple Juice Cost:₹15.00 Rating:5 + 1 - Add to Cart

Pomegranate Juice Cost:₹15.00 Rating:5 + 1 - Add to Cart

© 2022 Copyright: Harsha M

Now I will try to add some items to cart here are demos

FoodBox Restaurant

FOODBOX

Home Fooditems Login Register Aboutus Contactus

Logout

3

Veg Non-Veg Snaks&Juice

Search here

We can see I have added this items to cart



### Cart

Name	Price	Quantity	Sub Total	Remove Item
Chicken Biryani	₹299.00	(+ 1 -)	₹299.00	
Samosa	₹20.00	(+ 2 -)	₹40.00	
Apple Juice	₹15.00	(+ 2 -)	₹30.00	

Total: ₹369.00

[CheckOut](#) [Removeall](#)

© 2022 Copyright: Harsha M

I can increase I more juice we can see here



### Cart

Name	Price	Quantity	Sub Total	Remove Item
Chicken Biryani	₹299.00	(+ 1 -)	₹299.00	
Samosa	₹20.00	(+ 2 -)	₹40.00	
Apple Juice	₹15.00	(+ 3 -)	₹45.00	

Total: ₹384.00

[CheckOut](#) [Removeall](#)

© 2022 Copyright: Harsha M

If am have that much money need to delete then I can click delete icon you can see here

The screenshot shows a web browser window titled "FoodBox-Capstone" with the URL "http://localhost:4200/buy". The page header features the "FoodBox Restaurant" logo and navigation links for Home, FoodItems, Login, Register, Aboutus, Contactus, a shopping cart icon with a "2" notification, and Logout. The main content area is titled "Cart" and displays a table of items:

Name	Price	Quantity	Sub Total	Remove Item
Chicken Biriyani	₹299.00	<input type="button" value="+"/> 1 <input type="button" value="-"/>	₹299.00	<input type="button" value="Delete"/>
Apple Juice	₹15.00	<input type="button" value="+"/> 3 <input type="button" value="-"/>	₹45.00	<input type="button" value="Delete"/>

Total: ₹344.00

CheckOut

© 2022 Copyright: Harsha M

Now you can click checkout button to continue payment enter payment details

The screenshot shows a web browser window titled "FoodBox-Capstone" with the URL "http://localhost:4200/pay". The page title is "Payment Gateway" and it instructs the user to "Please Enter your card Details for purchase". The form fields include:

- CardNumber: 234578962358
- Card holder Name:
- CVV: 454
- Expiry Date: 10/25

A "Submit" button is located below the form. A copyright notice at the bottom states "© 2022 Copyright: Harsha M".



### Admin login



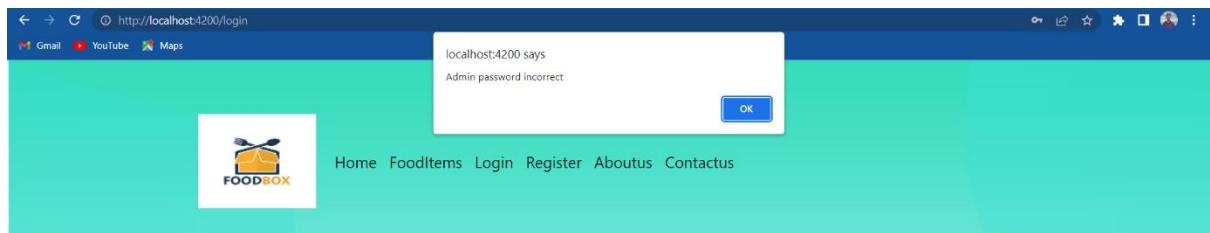
Login Here!!!

Email:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Submit"/>	

If you are a new user [Register Here](#)

© 2022 Copyright: Harsha M

**If you enter wrong password**

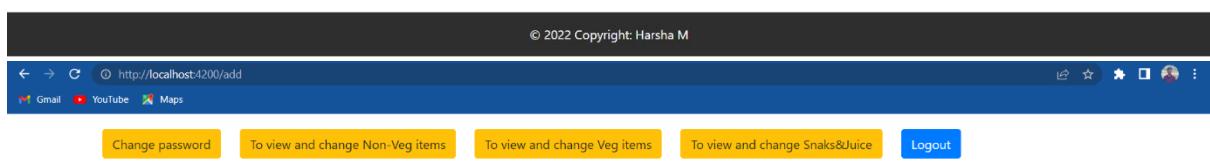


Login Here!!!

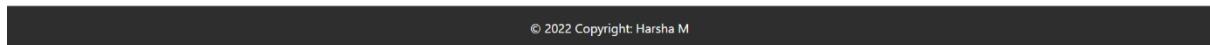
Email:

Password:

If you are a new user [Register Here](#)



Admin Works



**Admin can change password**



Logout



Logout

[Change password](#) [To view and change Non-Veg items](#) [To view and change Veg items](#) [To view and change Snaks&Juice](#) [Add](#)

Fooditems	Name	Cost	Delete
	Chicken Biriyani	299	<a href="#">Delete</a>
	Chicken Tikka	350	<a href="#">Delete</a>
	Chicken Curry	75	<a href="#">Delete</a>



Logout

[Change password](#) [To view and change Non-Veg items](#) [To view and change Veg items](#) [To view and change Snaks&Juice](#) [Add](#)

Fooditems	Name	Cost	Delete
	Veg Biriyani	100	<a href="#">Delete</a>
	Veg Burger	40	<a href="#">Delete</a>
	Masala Dosa	55	<a href="#">Delete</a>
	Veg Fried Rice	80	<a href="#">Delete</a>

**Admin can add new fooditems**

---

ID	<input type="text" value="21"/>
Name	<input type="text" value="chilli chicken"/>
Cost	<input type="text" value="150"/>
Rating	<input type="text" value="5"/>
quantity	<input type="text" value="1"/>
Image	<input type="text" value="NIV4.png"/>
<input type="button" value="submit"/>	

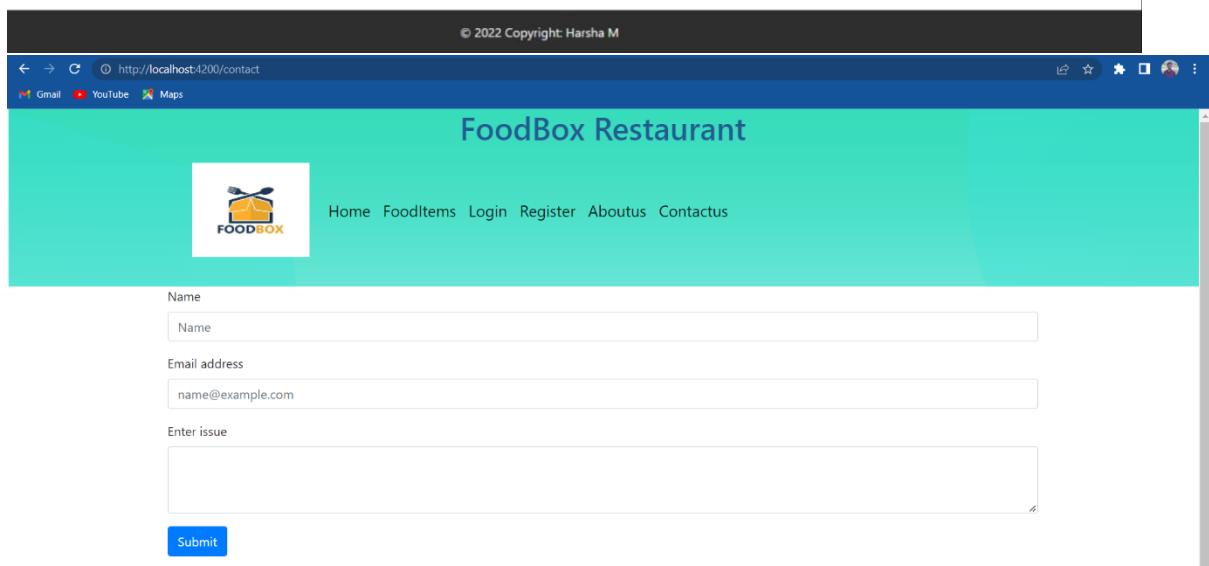
**After clicking logout home page displayed**



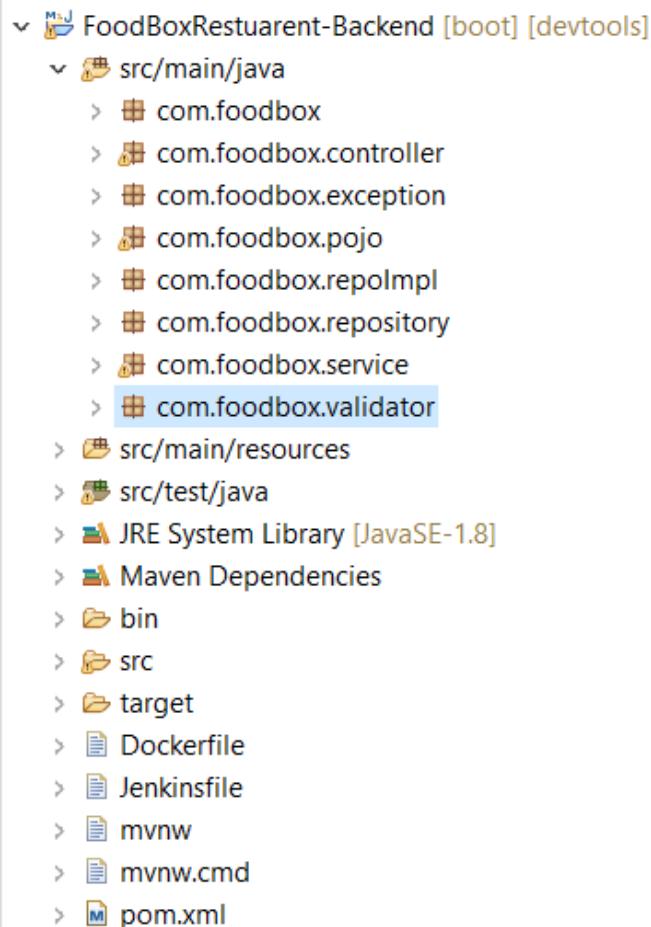
**Aboutus**



Foodbox is a restaurant chain that delivers food items of different cuisines at affordable prices. It was established in 2014 in Bengaluru, India. It had been serving fine all these years, however, the business analysts noticed a decline in sales since 2016. They found out that the online ordering of food items with companies, such as Swiggy and Foodpanda were gaining more profit by eliminating middlemen from the equation. As a result, the team decided to hire a Full Stack developer to develop an online food delivery web application with a rich and user-friendly interface. You are hired as the Full Stack Java developer and are asked to develop the web application. The management team has provided you with the requirements and their business model so that you can easily arrange different components of the application.



## Project Explorer in eclipse



Project Explorer in vs code

