# My Movie Plan

My Movie Plan is an frontend online movie ticket booking web application with a rich and user-friendly interface developed using Angular framework.

## Requirements

1. Angular - 11

2. Angular Material

3. Bootstrap 5.1

4. HTML

5. CSS

6. JAVASCRIPT

## Steps to Set up

NOTE:

1. Please do remember to change the 'spring.datasource.url' property value in application-prod.properties file where

your database is running.

2. Also do change the ip address of backend in the front-end application as well.

\*\*1.0 Go to official Amazon Web Services site\*\*

```bash

https://console.aws.amazon.com/ec2

```

\*\*2.0 Create New Instance\*\*

![App Screenshot](images/1.open-aws-site-select-create-ec2-instance.PNG)

![App Screenshot](images/2.select-linux-2.PNG)

![App Screenshot](images/3.configure-security-group.PNG)

![App Screenshot](images/4.create-new-key-pair-to-connect-to-ec2.PNG)

![App Screenshot](images/5.connect-to-ec2-instance.PNG)

\*\*3.0 Connect to the Instance\*\*

![App Screenshot](images/6.ssh-client-details.PNG)

\*\*4.0 Open Command Prompt in your machine and navigate to the path where you have downloaded the pem file\*\*

```bash

cd Downloads

```

\*\*5.0 Connect to EC2 Instance by executing the '3rd and example' commands in the ec2 instance\*\*

```bash

chmod 400 my-movie-plan.pem

ssh -i "my-movie-plan.pem" ec2-user@ec2-54-172-237-186.compute-1.amazonaws.com

```

![App Screenshot](images/7.connect-to-ec2-using-termial.PNG)

\*\*6.0 Update the Instance Once connected using the following command\*\*

```bash

sudo yum update -y

```

![App Screenshot](images/8.update-ec2-instance.PNG)

\*\*7.0 After updating the instance, install Java using the following command\*\*

```bash

sudo yum install java-1.8.0-openjdk

```

\*\*7.1 Check if Java is installed or not by executing the java version command\*\*

```bash

sudo java -version

```

![App Screenshot](images/10.install-java.PNG)

\*\*8.0 Install Maven\*\*

```bash

sudo yum install maven

```

\*\*8.1 Check Maven version\*\*

```bash

sudo mvn -v

```

\*\*9.0 Install Git\*\*

```bash

sudo yum install git

```

\*\*9.1 Check Git Version\*\*

```bash

sudo git --version

```

![App Screenshot](images/11.install-git-and-maven.PNG)

\*\*10.0 Install Jenkins. By executing the following commands one by one. For more details visit this

link: https://pkg.jenkins.io/redhat-stable/\*\*

```bash

sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo

```

```bash

sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key

```

```bash

sudo yum install jenkins

```

![App Screenshot](images/12.install-jenkins.PNG)

\*\*10.1 Start Jenkins after installing\*\*

```bash

sudo systemctl start jenkins

```

\*\*10.2 Check if Jenkins is running on port 8080 along with Public IPv4 addresses like:\*\*

```bash

Example:

The IPv4 addresses of my instance is: 54.172.237.186

The Jenkins is running on 8080 port: 8080

Finally, use both to view jenkins: '54.172.237.186:8080'

```

\*\*10.3 For the first time Jenkins will ask for password, to find the password, execute the following command in the EC2

Instance console\*\*

```bash

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

```

![App Screenshot](images/14.start-jenkins-and-copy-the-password.PNG)

\*\*10.4 Install the recommended plugins in the jenkins after logging in. After installing plugins, jenkins will prompt to

create an admin user, go-head and create the user\*\*

```bash

sudo cat /var/lib/jenkins/secrets/initialAdminPassword

```

![App Screenshot](images/16.install-jenkins-suggested-plugins.PNG)

\*\*11.0 Open EC2 Instance console and Install Docker\*\*

\*\*11.1 Amazon Linux 2\*\*

```bash

sudo amazon-linux-extras install docker

```

\*\*11.2 Amazon Linux\*\*

```bash

sudo yum install docker

```

\*\*11.3 Start Docker\*\*

```bash

sudo systemctl start docker

```

\*\*11.4 Add the ec2-user to the docker group so you can execute Docker commands without using sudo.\*\*

```bash

sudo usermod -a -G docker ec2-user

```

\*\*11.5 The user jenkins needs to be added to the group docker. For more details, please

refer: https://docs.aws.amazon.com/AmazonECS/latest/developerguide/docker-basics.html

, https://gist.github.com/npearce/6f3c7826c7499587f00957fee62f8ee9

, https://portal.cloud303.io/forum/aws-1/question/i-want-to-install-docker-compose-on-an-amazon-linux-2-ec2-instance-9\*\*

```bash

sudo usermod -a -G docker jenkins

```

\*\*11.6 Reboot the EC2 instance to pick up the new docker group permissions.\*\*

```bash

sudo reboot

```

\*\*12.0 After rebooting the EC2 Instance, execute the following commands.\*\*

\*\*12.1 Start Docker\*\*

```bash

sudo systemctl start docker

```

\*\*12.2 Verify that the ec2-user can run Docker commands without sudo.\*\*

```bash

docker info

```

\*\*12.3 Start Jenkins\*\*

```bash

sudo systemctl start jenkins

```

![App Screenshot](images/18.start-docker-and-provide-permissions.PNG)

\*\*13.0 Add Maven to Jenkins Global tool Configuration\*\*

```bash

sudo systemctl start jenkins

```

\*\*14.0 Open Jenkins and create a pipeline job for MYSQL\*\*

![App Screenshot](images/17.create-a-pipe-line-project-for-mysql.PNG)

\*\*15.0 Open Jenkins and create a pipeline job for Spring Boot\*\*

![App Screenshot](images/25.create-backend-pipeline-job.PNG)

![App Screenshot](images/26.backend-job-configuration.PNG)

\*\*15.1 Add Maven to Jenkins\*\*

![App Screenshot](images/30.register-mvn-in-jenkins.PNG)

\*\*16.0 Open Jenkins and create a pipeline job for Angular\*\*

![App Screenshot](images/16.create-a-new-pipeline-job.PNG)

\*\*17.0 Connect all the three job and build them\*\*

![App Screenshot](images/19.jenkins-builds.PNG)

\*\*18. Check if the app is running\*\*

```bash

The IPv4 addresses of EC2 instance and the port on which the angular app is running: http://54.172.237.186:4040/

```

![App Screenshot](images/40.home-page-before-login.PNG)

![App Screenshot](images/41.login-page.PNG)

![App Screenshot](images/42.after-login.PNG)

![App Screenshot](images/43.admin-page.PNG)

![App Screenshot](images/44.profile-page.PNG)

![App Screenshot](images/45.all-movies-page.PNG)

![App Screenshot](images/46.movie-page.PNG)

![App Screenshot](images/47.ticket-booking-page.PNG)

![App Screenshot](images/48.no-of-tickets.PNG)

![App Screenshot](images/50.payment-page.PNG)

![App Screenshot](images/51.add-new-cinema-hall.PNG)

![App Screenshot](images/52.add-new-movie.PNG)

![App Screenshot](images/53.seat-selection.PNG)

![App Screenshot](images/54.booking-confirmation.PNG)

![App Screenshot](images/55.about-us-page.PNG)

![App Screenshot](images/60.front-end-ip-address-setting.PNG)

![App Screenshot](images/65.database-setting-in-backend.PNG)