**Write up – Movie Plan**

**CAPSTON PROJECT Documentation by, Ashwini Kite**

**GitHub repository -** <https://github.com/AshwiniKite/KitchenStory/tree/master>

**Project Overview:**

NMS Cinemas is a chain of single screen theatres that screen movie shows of different genres and languages at very genuine prices. It was established in 2004 in Pune, India. Recently, the business analysts noticed a decline in sales since 2010. They found out that the online booking of movie tickets from apps, such as BookMyShow and Paytm 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 movie ticket booking web application with a rich and user-friendly interface.

**Features of the application:**

* Registration
* Login
* Payment gateway
* Searching
* Filtering
* Sorting
* Dynamic data
* Responsive and compatible with different devices

**Recommended technologies:**

1. Database management: MySQL and Oracle
2. Backend logic: Java programming, NodeJS
3. Frontend development: JSP, Angular, Bootstrap, HTML/CSS, and Javascript
4. Automation and testing technologies: Selenium, Jasmine, and TestNG
5. DevOps and production technologies: Git, GitHub, Jenkins, Docker, Kubernetes, and AWS.

**Create Writeup of all Scenarios in the Application:**

**1.0 Go to official Amazon Web Services site**  
<https://console.aws.amazon.com/ec2>

**2.0 New Instance**

**3.0 Connect to the Instance**

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

**5.0 Connect to EC2 Instance by executing the '3rd and example' commands in the ec2 instance**  
chmod 400 my-movie-plan.pem  
ssh -i "my-movie-plan.pem" [ec2-user@ec2-54-172-237-186.compute-1.amazonaws.com](mailto:ec2-user@ec2-54-172-237-186.compute-1.amazonaws.com) **6.0 Update the Instance Once connected using the following command**sudo yum update -y

**7.0 After updating the instance, install Java using the following command**sudo yum install java-1.8.0-openjdk

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

**8.0 Install Maven**sudo yum install maven

**8.1 Check Maven version**sudo mvn -v

**9.0 Install Git**sudo yum install git

**9.1 Check Git Version**sudo git --version

**10.0 Install Jenkins. By executing the following commands one by one. For more details visit this link:**[**https://pkg.jenkins.io/redhat-stable/**](https://pkg.jenkins.io/redhat-stable/)  
sudo wget -O /etc/yum.repos.d/jenkins.repo <https://pkg.jenkins.io/redhat-stable/jenkins.repo>  
sudo rpm --import <https://pkg.jenkins.io/redhat-stable/jenkins.io.key>  
sudo yum install Jenkins

**10.1 Start Jenkins after installing**sudo systemctl start jenkins

**10.2 Check if Jenkins is running on port 8080 along with Public IPv4 addresses like:**  
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**sudo cat /var/lib/jenkins/secrets/initialAdminPassword

**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**sudo cat /var/lib/jenkins/secrets/initialAdminPassworD

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

**11.1 Amazon Linux 2**sudo amazon-linux-extras install docker

**11.2 Amazon Linux**sudo yum install docker

**11.3 Start Docker**sudo systemctl start docker

**11.4 Add the ec2-user to the docker group so you can execute Docker commands without using sudo.**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://docs.aws.amazon.com/AmazonECS/latest/developerguide/docker-basics.html)**,**[**https://gist.github.com/npearce/6f3c7826c7499587f00957fee62f8ee9**](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**](https://portal.cloud303.io/forum/aws-1/question/i-want-to-install-docker-compose-on-an-amazon-linux-2-ec2-instance-9)

sudo usermod -a -G docker jenkins

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