**CS692, R1 – Jenkins Progress Report**

**Team: 1  
Jenkins Admin: Rushda Mansuri**

**Iteration 1: Planned and Completed Tasks**

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| **Planned Tasks** | **Completed Tasks** |
| 1. Create AWS account and 2 EC2s instance one for Dev and other for QA. 2. Install Java JDK and Jenkins on both instances. 3. Configure all the tools such as Tomcat, Maven, JDK, Git, NodeJS on all the nodes. 4. Manage and assigned roles on QA node. 5. Create two pipelines (One for API-backend project and other for React/NextJS-frontend project) for Dev node. 6. Create two pipelines (One for API-backend project and other for React/NextJS-frontend project) for QA node. 7. Deploy maven build and react build on respective nodes. 8. Installed and used plugins like BlueOcean. | 1. Create AWS account and 2 EC2s instance one for Dev and other for QA. 2. Install Java JDK and Jenkins on both instances. 3. Configure all the tools such as Tomcat, Maven, JDK, Git, NodeJS on all the nodes. 4. Manage and assigned roles on QA node. 5. Create two pipelines (One for API-backend project and other for React/NextJS-frontend project) for Dev node. 6. Create two pipelines (One for API-backend project and other for React/NextJS-frontend project) for QA node. 7. Deploy maven build and react build on respective nodes. 8. Installed and used plugins like BlueOcean. |

**Iteration 2: Planned and Completed Tasks**

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| **Planned Tasks** | **Completed Tasks** |
| 1. Notifications for email and slack. 2. Enable tasks/pipeline automation. 3. Automatically trigger deployment pipelines once code change has been done on git. 4. Install AWS Steps Plugin as it provides various AWS-related steps that allow convenient integration with AWS services in Jenkins pipelines 5. Install and use plugins Mailer, Kubernetes and SonarQube. | 1. Notifications for email and slack. 2. Enable tasks/pipeline automation. 3. Automatically trigger deployment pipelines once code change has been done on git. 4. Install AWS Steps Plugin as it provides various AWS-related steps that allow convenient integration with AWS services in Jenkins pipelines 5. Install and use plugins Mailer, Kubernetes and SonarQube. |

**R2 – Jenkins Progress Report**

**Iteration 3: Planned and Completed Tasks**

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| **Planned Tasks** | **Completed Tasks** |
| 1. Optimize the present tasks/stages of the pipeline. 2. Utilize AWS Steps Plugin as it provides various AWS-related steps that allow convenient integration with AWS services in Jenkins pipelines | 1. Optimize the present tasks/stages of the pipeline. |