**CS692, R1 – Jenkins Progress Report**

**Iteration 1: Planned and Completed Tasks**

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| Planned Tasks | Completed Tasks |
| 1. Download & Install Java JDK and Jenkins 2. Jenkins Configuration:  * Install these plugins:   Pipeline Plugin  Git Plugin  AWS Steps Plugin  GitHub Integration plugin  Deploy to Container Plugin  Blue Ocean Plugin   * Create Admin User * Configure global security * Manage & Assign Roles * Create freestyle & Test  1. AWS Setup – Dev & QA VMs 2. Jenkins Setup – Master-slave architecture 3. Integration with git, maven, java, tomcat and NodeJS 4. Creation of CI/CD pipelines for frontend, backend applications | 1. Download & Install Java JDK and Jenkins 2. Jenkins Configuration:  * Install these plugins:   Pipeline Plugin  Git Plugin  AWS Steps Plugin  GitHub Integration plugin  Deploy to Container Plugin  Blue Ocean Plugin   * Create Admin User * Configure global security * Manage & Assign Roles * Create freestyle & Test  1. AWS Setup – Dev & QA VMs 2. Jenkins Setup – Master-slave architecture 3. Integration with git, maven, java, tomcat and NodeJS 4. Creation of CI/CD pipelines for frontend, backend applications |

**Iteration 2: Planned and Completed Tasks**

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| Planned Tasks | Completed Tasks |
| 1. Enable tasks/pipeline automation. 2. Automatically trigger deployment pipelines once code change has been done on git. 3. Integrating slack With Jenkins 4. Email Notifications | 1.Enable tasks/pipeline automation  2.Automatically trigger deployment pipelines once code change has been done on git.  3.Integrating slack With Jenkins  4.Email Notifications |

**Iteration 3: Planned and Completed Tasks**

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| Planned Tasks | Completed Tasks |
| 1. Integrated SSH plugin to execute shell script. 2. Modify SCM checkout retry count. | 1. Integrated SSH plugin to execute shell script. 2. Modify SCM checkout retry count. |

**Iteration 4: Planned and Completed Tasks**

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| Planned Tasks | Completed Tasks |
| 1. Integrate security scanning tools SonarQube into pipeline to identify and mitigate vulnerabilities in the code(Dev). | 1. Integrate security scanning tools SonarQube into pipeline to identify and mitigate vulnerabilities in the code(Dev). |