**CS691 – Jenkins Progress Report**

**Team 3**

**Application:** Freelance Forge

**Sprint 1:** Planned and completed tasks (03/05/2025 to 03/26/2025)

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| **Planned Tasks** | **Completed task** |
| 1. **Integrating and Automating QA**     * Connect QA pipeline to the QA instance  * Set up GitHub webhook for auto code pulling and deployment from the QA branch  1. **Plugin Evaluation and Installation**  * Install Blue Ocean Plugin for enhanced pipeline visualization. * Install Slack Plugin for build notifications.  1. **Plugin Installation and Configuration**  * Install and configure selected plugins. * Integrate with Slack and test build notifications.  1. **Jenkins Security**  * Update Jenkins plugins to the latest versions * Identify and fix pipeline scripts vulnerabilities  1. **Pipeline Optimization**  * Implement deployment stages in Dev and QA pipelines * Configure conditional triggers  1. **Documentation**  * Document Jenkins setup and plugin usage * Share updated CI/CD process with the team | **Integrating and Automating QA**   * + Connect QA pipeline to the QA instance * Set up GitHub webhook for auto code pulling and deployment from the QA branch   **Plugin Evaluation and Installation**   * Install Blue Ocean Plugin for enhanced pipeline visualization. * Install Slack Plugin for build notifications.   **Plugin Installation and Configuration**   * Install and configure selected plugins. * Integrate with Slack and test build notifications.   **Jenkins Security**   * Update Jenkins plugins to the latest versions * Identify and fix pipeline scripts vulnerabilities   **Pipeline Optimization**   * Implement deployment stages in Dev and QA pipelines * Configure conditional triggers   **Documentation**   * Document Jenkins setup and plugin usage * Share updated CI/CD process with the team |

**Sprint 2: Planned and Completed Tasks**

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| **Planned Tasks** | **Completed Tasks** |
| 1. Creation of CI/CD pipelines for Dev and Test servers 2. Configure Webhook on Git hub to trigger Jenkins Pipeline 3. Enable tasks/pipeline automation. 4. Automatically trigger deployment pipelines once code change has been done on git. 5. Resolve Blue Ocean plugin 6. Create Jenkins job for Test Cases and create automated pipeline on Jenkins | Creation of CI/CD pipelines for Dev and Test servers  Configure Webhook on Git hub to trigger Jenkins Pipeline  Enable tasks/pipeline automation.  Automatically trigger deployment pipelines once code change has been done on git.  Resolve Blue Ocean plugin  Create Jenkins job for Test Cases and create automated pipeline on Jenkins |

**Sprint 3: Planned and Completed Tasks**

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| **Planned Tasks** | **Completed Tasks** |
| 1. Configure Email Notifications from Jenkins, once the Code Deployment is completed on QA server. 2. Configure Slack Notifications from Jenkins once the Code Deployment is completed on QA server. 3. Frontend and Backend Deployment in a Single Instance   Deploy both the frontend and API- backend within a single instance to consolidate resources and streamline the deployment process, creating a monolithic structure.   1. Maintain and Update Jenkins Plugins for Optimal Performance   Carefully configure and regularly update Jenkins plugins to leverage new features and ensure stability. Additionally, automate the pipeline on the QA server for seamless testing and deployment. | Configure Email Notifications from Jenkins, once the Code Deployment is completed on QA server.  Configure Slack Notifications from Jenkins once the Code Deployment is completed on QA server.  Frontend and Backend Deployment in a Single Instance  Deploy both the frontend and API- backend within a single instance to consolidate resources and streamline the deployment process, creating a monolithic structure.  Maintain and Update Jenkins Plugins for Optimal Performance     Carefully configure and regularly update Jenkins plugins to leverage new features and ensure stability. Additionally, automate the pipeline on the QA server for seamless testing and deployment. |