**CS691 – Jenkins Progress Report**

**Team 2**

**Jenkins Admin:** Himanshu Shivkumar Garg

**Application:** RideEase

**Sprint 1:** Planned and Completed Tasks

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| **Planned Tasks** | **Completed Tasks** |
| 1. **QA /Dev Integration & Automation**  * Link the Dev pipeline to the environment. * Configure GitHub webhook for auto code pulling and deployment from the Dev branch  1. **Plugin Installation & Deployment**  * Install the Slack Plugin for build notifications.  1. **Plugin Installation and Configuration**  * Install and configure selected plugins.  1. **Jenkins Security Enhancement**  * Update Jenkins plugins to the latest versions   Detect and resolve bugs in pipeline   1. **Pipeline Optimization**  * Implement deployment stages in Dev and QA pipelines  1. **Documentation**  * Document Jenkins setup and plugin usage * Share updated CI/CD process with the team | 1. **QA/ Dev Integration & Automation**  * Connected Dev pipeline to instance and configured GitHub webhook for implementing automatic code pulling and deployment for the Dev branch upon new commits.  1. **Plugin Installation & Deployment**  * Integrate Jenkins in Slack for real-time build notifications.  1. **Plugin Installation and Configuration**  * Configured plugins to meet project needs  1. **Jenkins Security Enhancement**  * Updated all plugins to the latest versions and resolved vulnerabilities in pipeline scripts, using SSH Agent for secure access, enhancing security.  1. **Pipeline Optimization**  * Implemented deployment stages in both Dev and QA pipelines for efficient builds. |

**Sprint2: Planned and Completed Tasks**

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| Planned Tasks | Completed Tasks |
| **1. Trigger build on Git Push**   * Automatically trigger build when developer push the code to GitHub eliminating manual task to deploy update via Jenkins   **2. Automated Workspace Cleanup**   * Set up automatic cleanup for workspaces after builds to maintain storage efficiency without manual intervention   **3. Update and Add New Jenkins Plugin**   * Update Jenkins plugin to enhance security and keep up to date with new versions. Add new plugin eg – BlueOcean, NodeJS plugin, Build Failure Analyzer   **4. QA /Dev Pipeline Optimization**   * Further optimize the pipeline & reduce the time taken for build | **1. Trigger build on Git Push**   * Jenkins automatically triggers build when developer push the code to GitHub eliminating manual task to deploy update via Jenkins   **2. Automated Workspace Cleanup**   * Done with the set up of automatic cleanup for workspaces after builds to maintain storage efficiency without manual intervention   **3. Update and Add New Jenkins Plugin**   * Updated Jenkins plugin to enhance security and keep up to date with new versions.   **4. QA /Dev Pipeline Optimization**   * Optimized the pipeline & reduced the time taken for build. |

**Sprint 3: Planned and Completed Tasks**

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| Planned Tasks | Completed Tasks |
| **1. Disk Usage Monitoring**   * Install a disk usage plugin to monitor storage and set up alerts when usage reaches critical levels.   **2. Documentation of New Processes**   * Update documentation to include new processes (workspace cleanup, Backup and restore, and testing), providing a quick reference for team members.   **3. Jenkins Security**   * Update Jenkins plugins to the latest versions * Identify and fix pipeline scripts vulnerabilities   **4. Update and add Plugins**   * Update Jenkins plugin to enhance security and keep up to date with new versions and add new plugin. | **1. Disk Usage Monitoring**   * Installed a disk usage plugin to monitor storage and it gives alerts when usage reaches critical levels.   **2. Documentation of New Processes**   * Updated documentation to include new processes (workspace cleanup, Backup and restore, and testing), providing a quick reference for team members.   **3. Jenkins Security**   * Updated Jenkins plugins to the latest versions and fixed pipeline scripts vulnerabilities   **4. Update and add Plugins**   * Updated Jenkins plugin to enhance security and keep up to date with new versions and add new plugin. |