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| **Quality Reporting Bot** | | | |
| **Problem Statement**:  Quality team at Wipro is responsible to remind Various Accounts to initiate Feedback surveys with the client. This miniscule task becomes bothersome when the reminder mails are created one by one for each project and the process needs to be repeated more than 50 times. This webapp will help quality team in generating reminder mails with a single click. They won’t have to sort through the data manually and mails can be generated by filtering for their accounts on an easy to use UI.  This webapp can further be enhanced by implementing other report generator such as PEI report generator, CSAT Dashboard maker etc. | | | |
| **Requirement Specifications**:   * Bot should be able to take data dump as an input, process it and feed data required to filter for accounts to the front-end. * End user should be able to select and browse through available account. * Upon successful recharge, end customer should receive a text message confirming the recharge amount, validity etc. * The application should also be capable of displaying past transactions and recharge history when requested through Transaction History. | | | |
| **Assumptions** (if any): | | | |
| Deliverables: (Version Controlled in Source Code Repository). Build Automation   * Project Structure with source * Snapshots   + Gitlab History   + Jenkins Project Configuration (Auto build trigger)   + Jenkins Build History   + Auto triggered mail   Deployment Automation ( After Build Automation)   * Snapshots   + Jenkins Configuration – Artifactory, SonarQube and WebServer   + Jenkins Project Configuration   + Jenkins Build History   + Auto triggered mail   Release Automation (Build + Deployment Automation)   * Configuration Scripts * Gitlab History * Snapshots   + Jenkins Configuration – Ansible and Docker   + Jenkins Project Configuration   + Jenkins Build History   + Auto triggered mail | | | |
| Purpose | Description | Tool Used | Remark |
| SCM | Project Management: Complete Project Folder structure with Source and Read Me document giving brief description for repository. | GIT | (Provide complete Path in SCM) |
| DevOps Pipeline | Give brief description about how following DevOps Principles are considered in the project at each stage:  Continuous development  Continuous Build  Continuous Integration  Continuous test  Continuous release  Continuous deployment  Continuous monitoring | Jenkins  Maven  Junit  Selenium  Sonar  JFrog Artifactory  Docker Swarm/Docker Compose  CAdvisor/ELK/Nagios | (Environment - Tools used) |
| Environment / Configuration Automation | * Whether application is deployed on server or on container environment * Environment may involve multiple binaries, libraries, app/web/database servers.   + List the packages to be installed.   + List of configuration files to be modified   + List the services & any other relevant info | Ansible  Docker |  |

**Project Guidelines:**  You may develop your own code for above requirements and tool integration.

1. Perform Build Automation
   * Scope for managing multiple branches / modules
   * Scope for automating execution of test scripts
   * Scope for automating customized notification based on build process (optional)
2. Perform Deployment Automation (After Build Automation)
   * Scope for Automated deploy and test different artifacts
   * Scope for Automated environment configuration
3. Perform Release Automation (Build + Deployment Automation)
   * Scope for Automated Server orchestration
   * Scope for Automated Container Orchestration
   * Scope for Integration of Monitoring tools

**Project Tasks/Deliverables:**

1. Create a Git Repository Project in GitLab – Use below mentioned naming convention
   1. <Your ADID>/DevOpsProfessional/<batch#>/Capstone/<projectTitle>
2. Structured code base & Build process configuration details (example: pom.xml)
3. Few Snapshots to review Build/Deploy/release/Notification status