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| Water Services in India | | | |
| Problem Statement:  There is no web portal to offer water services to the customers across India. Portal will deliver mineral water / normal water based on customer requirement. This website will further make cost analysis and suggest best services at the time of purchase. | | | |
| Requirement Specification:   * Portal will be having a home page to show different water services that we support. * An order page will be redirected upon brand selected. * Once the order is submitted, it will be redirected to confirmation page. * Orders are viewed by the admins to monitor and assist customers further. | | | |
| 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 lab/Gitea | (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 | Visual studio code  Jenkins  Jenkins  Selenium/ Xunit  Jenkins  Ansible  Synthetic monitoring | (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 the 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

<https://topgear-training-gitlab.wipro.com/SA20252477/DevOpsProfessional_37_Capstone_WaterServices.git>

1. Structured code base & Build process configuration details (example: pom.xml)
2. Few Snapshots to review Build/Deploy/release/Notification status