# CI CD Final Project

## Project Goals

* **Code Usage:** Use code from an open-source web application.
* **Install and Document:** Install the application and document its purpose and features.
* **CI/CD Pipeline:** Develop a CI/CD pipeline to build, prepare, enhance, and deploy the application.

## Key Parts of the Project

### Part 1 - Locate, Install, and Document the Application

1. **Locate:**
   * Find an open-source web application publicly available online.
   * Verify that the license allows public access.
   * Evaluate the complexity of the web stack and the application’s features and technologies.
2. **Install:**
   * Clone the application on your machine.
   * Follow the documentation provided by the application owners.
   * Install the required dependencies and provide the necessary environment variables and database connection.
   * Run the application locally.
3. **Document:**
   * Write a summary of the application’s general purpose.
   * Document the backend API routes and their purposes.
   * Document the frontend views with screenshots, possible actions, and authentication requirements.
   * Document the database collections/table names and models used.

### Part 2 - CI/CD Pipeline

1. **Build the Pipeline:**
   * Clone the application and create a new GitLab project.
   * Add the remote to your repository and push on GitLab.
2. **Required Stages (for teams of two):**
   * Install stage: Setting up, installing node\_modules, etc.
   * At least two stages producing artifacts, such as lint, documentation, or test stages.
   * Build stage: Preparing resources for the deployment stage.
   * Deploy stage: Deploying the web application on AWS.
3. **Optional Stages:**
   * Lint stage: Output results of linting in an output file.
   * Documentation stage: Generate documentation based on code comments and README files.
   * Test stage: Output test results or code coverage reports.