

CI/CD - 1

Team Project – Christmas 2022 - Presentation: Week 12

(Worth 35%)

Team Project

Research, design and build a high-quality CI/CD pipeline to generate a java micro services-based application.

- 1) Use a shared repository to share code.
- 2) Use CI/CD pipelines to build, test and deploy your project. Example of [CI/CD tools](#) here (**No using GitHub Actions**)
- 3) The pipelines should automate the build, testing, packaging, and deployment to Docker Hub.
- 4) Minimum of one microservice per team member (Minimum 3 - Max 4).

Required tools: Maven, Docker, Junit or AssertJ, Central Repository and a CI/CD tool.

Presentation (Week 12)

- 1) Intro to project – Overview, goals and objectives and describe the challenge.
- 2) UML diagram(s) explaining your project.
- 3) Discuss and compare CI/CD tools reviewed.
- 4) Demonstration of pipelines.
- 5) Originality. – All work will be submitted to TurnItIn

Team Submission (Only one person is each team should submit) – (Friday – Week 11)

- 1) PowerPoint.
- 2) Details on Docker images submitted to DockerHub.
- 3) Details on how to access your code and initiate your pipeline.
- 4) Repository link which should allow access to build the project and a change should initiate the CI/CD pipeline.

Video Submission (Only one person is each team should submit) - (Friday – Week 11)

- 1) Intro to project – Overview, goals and objectives and describe the challenge.
- 2) Demonstration of pipeline.
- 3) Originality.

Individual Submission (Each member of the team needs to submit) - (Friday – Week 11)

1. Peer review form – Details of your contribution to the team project and your opinion on team members contribution

Marks for research, complexity, originality, and accessibility.