

# Information Security COMP 421

## Fall 2022

### Course Project Description

**Problem Statement:** In this course project, first you are required to install Jenkins on your machine, create a remote repository for your project on GitHub, configure Jenkins to run the pipeline whenever you push code to the remote repository, and install the **SnyK Security**<sup>1</sup>'s Jenkins plugin-in to test security of your application. In fact, the goal of this project is to see how you configure the Jenkins pipeline and to see the result of security testing of your application. Definitely, you are required to submit your application to remote repository after successful installation and configurations to trigger the pipeline. For that, you can divide your application / code in three parts (as you are working in the group of three members) and then each member will submit his / her part of the application on the remote repository. You can choose any application type e.g. web or console or mobile application or code available online or completed by you in any other course / project. At the end, you are required to submit a demonstration video to show successful security testing of your application through Snyk Jenkins plugin.

#### Submission requirements and deadline

- You should submit a video demo to demonstrate the.
- The demo video can be uploaded on an online drive or on Youtube. However, you are required to embed the link of the video and your remote Git repository into a word file and submitting the word file on Moodle course page.
- The total marks for course proposal are twenty (20).
- The deadline for submitting course project is **Tuesday 17th January, 2023**.

#### Grading Criteria

- Jenkins successful installation, configuration and running of the pipeline = 7 marks.
- Submission of code by three group members on the group's remote repository = 3 marks
- Report of successful security testing through Snyk security tool = 5 marks.
- A presentable demo video by all the group members = 5 marks.

**Note:** In case of late submission, the instructor can deduct marks on per-day basis.

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<sup>1</sup> <https://plugins.jenkins.io/snyk-security-scanner/>