

## CSIT314 Software Development Methodologies

### Lab 6

This exercise provides students with a short, practical introduction to the practice of DevOps and Continuous Integration/Continuous Deployment (CI/CD) on the GitLab platform.

1. Watch a GitLab demo at <https://youtu.be/nMAgP4Wlcno> to have an overview of GitLab and how DevOps practice is supported.
2. Go to GitLab <https://gitlab.com/> and create a free account
3. Follow this tutorial <https://youtu.be/Jav4vbUrqII> to create a “My simple pipeline” project for yourself.
4. Explore some public projects listed on GitLab (<https://gitlab.com/explore>).
  - a. For example: check out here for <https://gitlab.com/gitlab-examples> some sample projects
5. Create a simple “Hello World” project of your own and setup a CI/CD pipeline.
6. Write a few unit test cases for your app and integrate them into the CI/CD pipeline.