Project (June 21 presentation, June 22 submission)

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Final Project (June 21 presentation, June 22 submission)

The final project is worth 20% of the course grade. You will present your project in class on 21 June. Final project submissions are due 22 June.

The goal of the project is to take the concepts you've learned in the class and take them to the next level in a direction of your interest.

Option 1 - Implement a DevOps pipeline for an open source or personal project

- Find an open source or personal project of a nontrivial size, but not so large that it's overwhelming.
  - This project should not already have a devops pipeline
- Containerize parts of the application if/where appropriate (i.e. web server, database, etc.)
- Implement a build/lint/test/deploy pipeline in GitLab for your project
  - (let me know if you are unable to create a project under CitadelCS)
- Implement (or suggest if you cannot implement) DevSecOps steps in the pipeline

Option 2 - Audit a public DevOps pipeline and suggest improvements (requires pre-approval by 6/15)

- Identify an open source project with an observable DevOps pipeline. It can be implemented in GitLab, GitHub Actions, or some other framework.
- Contact the instructor with this resource and suggest your initial takes/ideas on the project.
- Document (and support) a list of recommended improvements or changes to the pipeline according to parameters discussed with the instructor.

Option 3 - GitHub CICD pipeline with GitHub actions

There are many options for building a pipeline. Convert the Wordguesser app (or an appropriately scoped personal project) into a full DevSecOps pipeline, but use GitHub and GitHub Actions instead of GitLab. Document your process into a tutorial form such that it can be reproduced by others who want to learn DevOps.

Submission

Prepare a submission document summarizing your project, what was accomplished, what was not, and lessons learned. Include screenshots, links to source code hosted on version control/GitLab, etc. as appropriate. **Ensure that, between this submission and your class presentation, all your effort toward the project is clearly evident to the instructor.** This is especially important in the case of negative results, where you attempted something challenging but got stuck.

Points	100
Submitting	a text entry box, a website url, a media recording, or a file upload

Due	For	Available from	Until
Jun 22, 2022	Everyone	-	-

+ **Rubric**