

Fall 2021

Federal Reserve Bank of Cleveland Research Opportunities

Position One: *Continuous Delivery Dashboard Overview*

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As we move our eGov applications toward a more continuous delivery model—with code changes initiating continuous integration builds, deployment automation across the delivery pipeline, and shorter and more frequent agile release cycles—visibility into the viability of a given release candidate as it makes its way through the deployment pipeline becomes increasingly more crucial to the success of a release.

A continuous delivery dashboard would provide key participants in the software development lifecycle (SDLC) insight into the history of a release candidate as it makes its way through the continuous delivery (CD) pipeline. The dashboard would present visual confirmation of the success/failure of inspections performed against a given release candidate—starting with a commit build and associated unit tests, and passing through various hosting environments and checkpoints, until the go/no-go call is made to release it to production. Through one portal, a user could verify successful passage through various gating processes—like acceptance testing, quality inspection, security scanning, etc.—to arrive at an informed decision on whether a release candidate should progress through the pipeline.

Goals of this active project

Movement of our eGov applications toward a continuous delivery model necessitates that visibility into the viability of a given release candidate becomes increasingly more crucial to the success of a release.

- The primary objective of this project is to provide key participants with a continuous delivery dashboard.
- The dashboard will provide key stakeholders visual confirmation of the success/failure of inspections performed against a given release candidate, starting with a commit build through production deployment.

Role

This project provides an opportunity to a student to assist with this initiative and actively participate with the analysis and delivery of the project work with the team working on this effort.

The student will be able to observe various IT roles in action as well as perform some of the various activities to help expose them to different positions within Treasury Services.