



Introduction

Welcome to CircleCI's Senior Support Engineer Technical Assessment! This assessment is meant to gauge your understanding of technical concepts, communication style, and research capability. There are two prompts that we'd like you to complete: an application to demonstrate your knowledge and a mock customer ticket.

Prompt #1 - Application

Create an application that can demonstrate the following CircleCI features:

- Conditional Logic - <https://circleci.com/docs/2.0/configuration-reference/#logic-statements>
- Caching - <https://circleci.com/docs/2.0/caching/>
- Test Splitting - <https://circleci.com/docs/2.0/parallelism-faster-jobs/#splitting-test-files>
- Artifacts - <https://circleci.com/docs/2.0/artifacts/#uploading-artifacts>
- Matrix Builds - <https://circleci.com/docs/2.0/configuration-cookbook/#use-matrix-jobs-to-run-multiple-os-tests>
- Orbs - <https://circleci.com/docs/2.0/orb-intro/>

Prompt #2 - Feature Request

Respond to the following customer ticket by referencing our [Ideas Page](#):

Dear CircleCI,

We are currently using the "Only build pull requests", which works successfully for our main branch. However, we are hoping to add an additional branch to the list but there doesn't seem to be an option to do so. Is there a way this can be done?

Thank you,
Chris Coe

Expectations

- A link to a passing build in CircleCI that shows the use of the above listed features
- At least two tests will need to be written so that they can be split across containers
- At least one dependency will need to be associated with your app so it can be cached
- At least one file will need to be generated during the CI process so it can be stored as an artifact (example: test results)
- At least one Orb will need to be invoked within a job

Note

This will require setting up a simple sample application that has tests, generates files, and has dependencies that need to be cached. No requirements on the type of app or language it is made in as long as it accurately demonstrates the CircleCI features.