DevOps Document

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**Semester:** 6

**Class:** RB04

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| Version | Date | Description |
| 0.1 | 28 Oct 24 | Initial document |
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# Introduction

This document contains the CI/CD pipeline, how it is set up, and the reasons for its configuration.

# CI/CD overview

This document provides an overview of the CI/CD pipeline for the project. It explains how the pipeline is set up, implemented, and versioned, leading to the final product version.

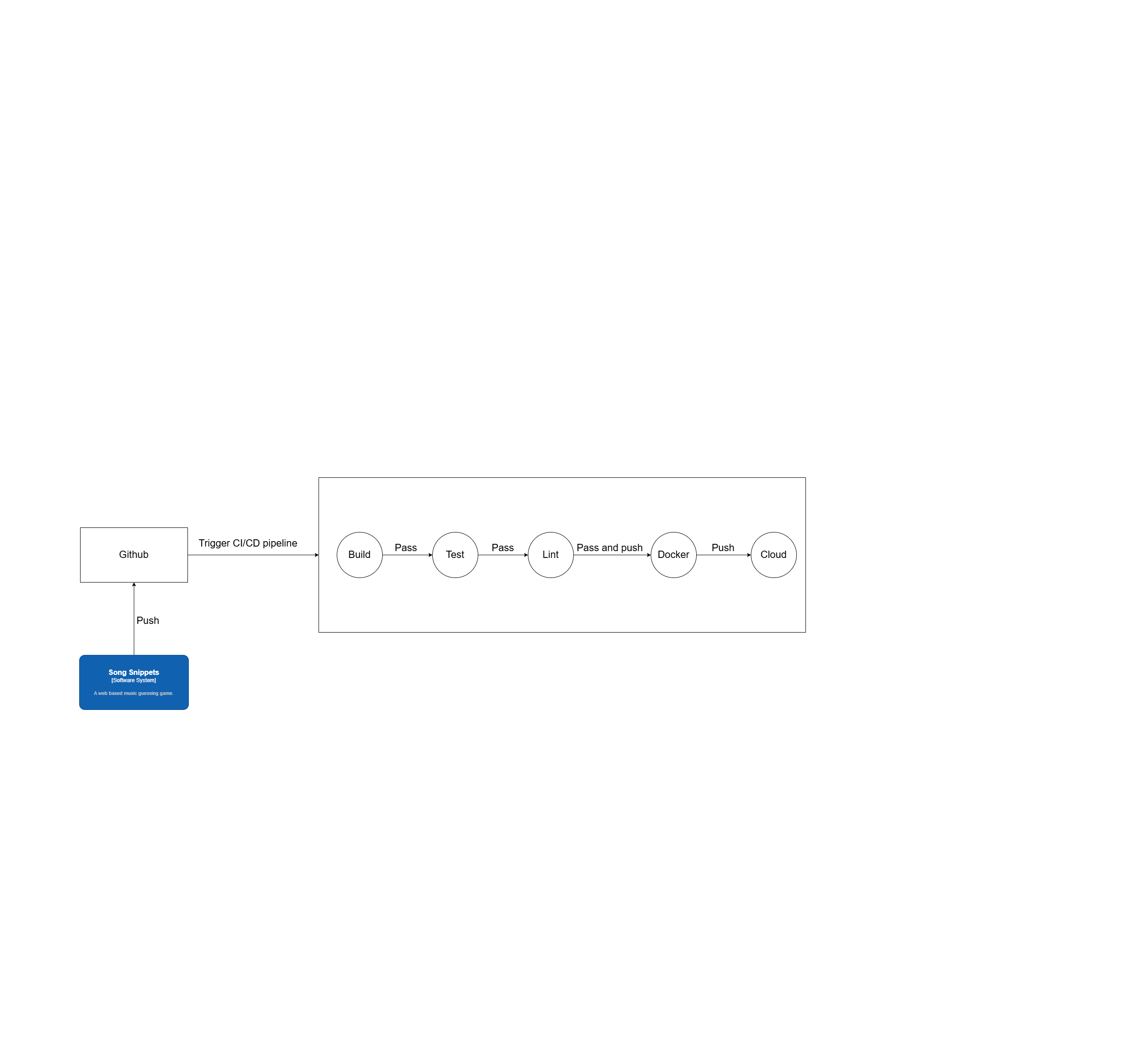
## V2

A diagram of a computer

Description automatically generated

In this version the design structure is very different then the previous version.

## V1



This pipeline is a work in progress and will be enhanced as further research is conducted. The project repository is hosted on GitHub, and GitHub Actions is used to manage the CI/CD pipeline.

The pipeline is triggered whenever changes are pushed to the GitHub repository, regardless of the branch. It begins by building the project and checking for any issues. Next, it runs the existing unit tests to evaluate functionality coverage. Once the tests pass, the pipeline lints the project to identify code issues, code smells, and ensure adherence to best practices.

If all checks are successful, the pipeline pushes the build to Docker and subsequently deploys it to the cloud.