Tooling Document

1. Status

2. Introduction

The document is responsible for outlining any tools used for this project.

2.1 Glossary

Term	Definition
VCS	Version Control System tracks and manages changes to the codebase.
CI	Continuous Integration is the practice of automating code changes from multiple contributors into a single project frequently. This helps detect and fix conflicts early.
CD	Continuous Delivery/Deployment is the practice of automating deployment to staging or production environments. This enables rapid and safe delivery of updates to users.
Code Coverage	Code Coverage is a metric to show much of the code is tested.
IaC	Infrastructure as Code is a process that provisions and manages cloud resources programmatically.
Containerization	Containerization is a process that packages code and dependencies into a container image
Orchestration	Orchestration is a process that automates the lifecycle of containers

3. Requirements

Priority	Requirement	Done
0	A tool for VCS	☑

0	An automatic tool for CI/CD	☐
0	An automatic tool for code coverage	☐
0	An tool for IaC	☐
0	An automatic tool for code quality	☐
1	A tool for containerization/orchestration	☐
1	An automatic tool for dependencies	☐

4. Tools

4.1 Git

This tool will be used for version control. GitHub will be our hosting service for git repositories.

4.11 Documentation

- [Git Docs](#)

4.2 AWS Codepipeline

This tool will be used for CI/CD.

4.21 Documentation

- [AWS Codepipeline Docs](#)

4.3 Codacy

This tool will be used for automatic code coverage.

4.31 Documentation

- [Codacy Docs](#)

4.4 AWS CloudFormation

This tool will be used for IaC.

4.41 Documentation
- [AWS CloudFormation Docs](#)

5. Work Log

#	Task	Sprint	Status	Assignee
1	Setup Github	1	Completed ▾	Bryant Le
2	Setup AWS Codepipeline action for frontend	1	Blocked ▾	
3	Setup AWS Codepipeline action for backend	1	Blocked ▾	
4	Setup Codacy action for frontend	1	Not Started ▾	
5	Setup Codacy action for backend	1	Not Started ▾	
6	Setup AWS Cloudformation action for infrastructure	1	Blocked ▾	