CI/CD BENEFITS PROPOSAL

Manhdd17 - project3 - Udacity

CI/CD Introduction

Continuous Integration

The practice of merging all developer's working copies to a shared mainline several times a day.

Continuous Deployment

A software engineering approach in which the value is delivered frequently through automated deployments.

Continuous Delivery

An engineering practice in which teams produce and release value in short cycles

Continuous Delivery = Continuous Integration + Continuous Deployment

CI/CD Benefits (1/2)

Faster Time-to-Market

- CI/CD automates the process of building, testing, and deploying
- Reducing the time it takes to deliver new features or fix issues

Improved Quality and Reliability

- Bugs are detected early in the development cycle, reducing the risk of costly errors in production
- Ensure the customer's expectations by automating the testing

Continuous Improvement

- Continuous feedback on the quality, performance, and usability of software
- Identify areas for improvement and make changes quickly

CI/CD Benefits (2/2)

Cost-saving

- Less developer time on issues from new developer code
- Less infrastructure costs from unused resources

Protect Revenue

- Reduced downtime from a deploy related crash or major bug
- Quick undo to return production to working state

Increase Revenue

- Less time to market
- Reduced downtime from a deploy related crash or major bug