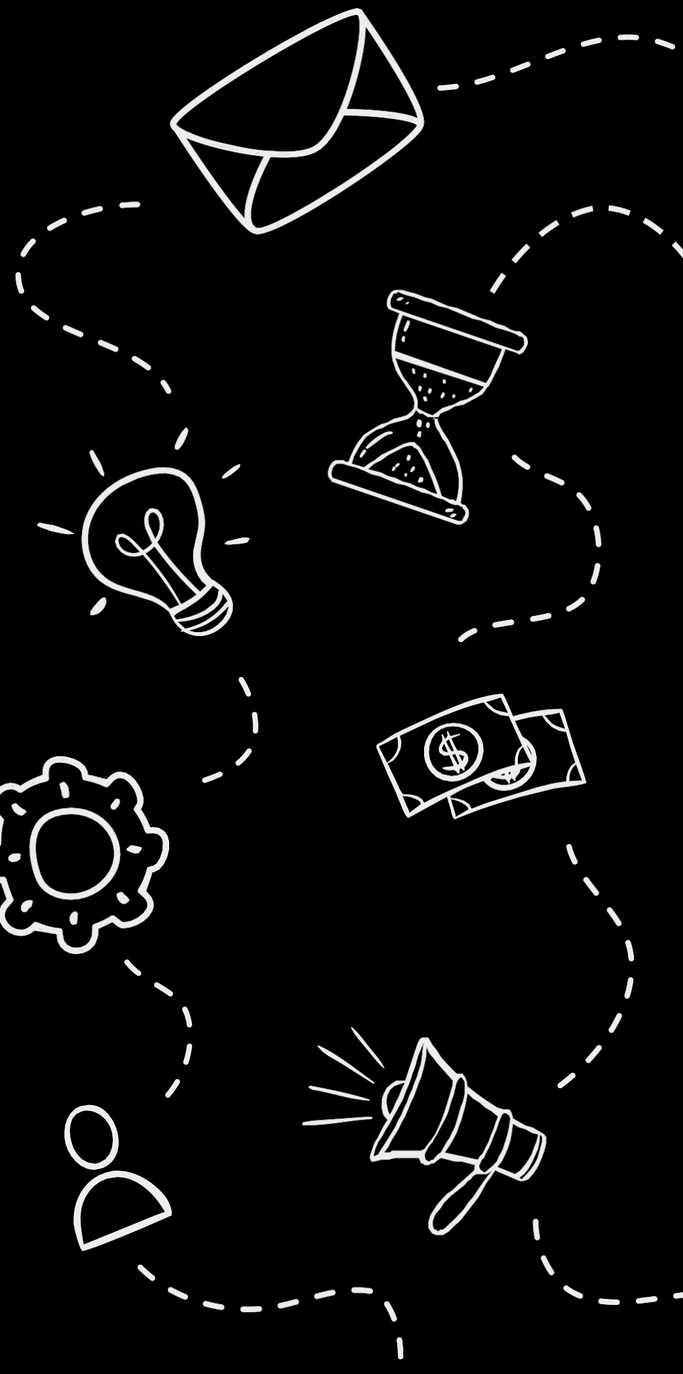
BENEFITS of CI/CD
UdaPeople Project



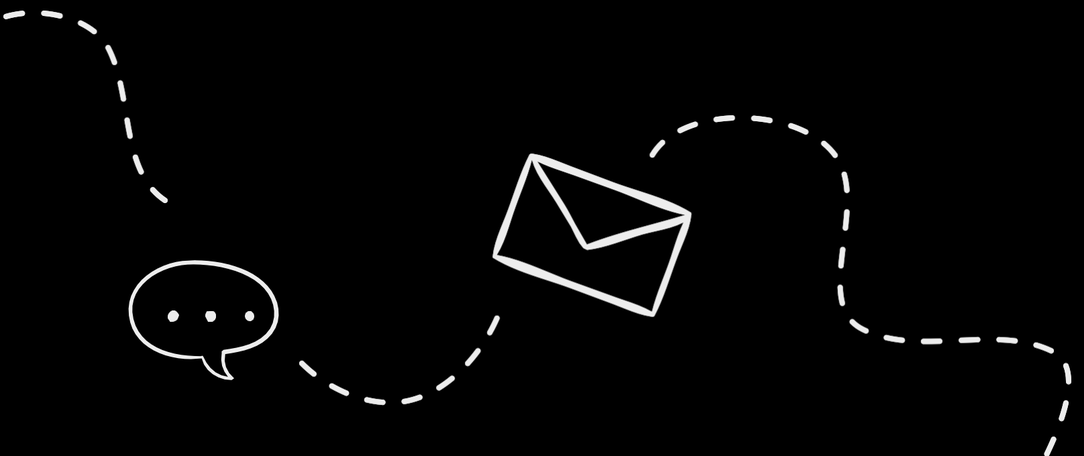
WHAT IS CI/CD ?

Continuous Integration

The practice of merging all developers' 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.



WHY CI/CD IS IMPORTANT ?

Accelerated time to value

When you can deploy anytime, you can bring products and new features to market faster. Your development costs are lower, and a faster turnaround frees your team for other work.

Hit dates more reliably

Removing deployment bottlenecks and making deployments predictable can remove a lot of the uncertainty around hitting key dates. Breaking work into smaller, manageable bites means it's easier to complete each stage on time and track progress.

Less fire fighting

Testing code more often, in smaller batches, and earlier in the development cycle can seriously cut down on fire drills. This results in a smoother development cycle and less team stress.

WHY CI/CD IS IMPORTANT ?

Reduce burnout

Research shows that continuous delivery measurably reduces deployment pain and team burnout. Developers experience less frustration and strain when working with CI/-CD processes.

Less context switching

Getting real-time feedback on the code developers commit makes it easier to work on one thing at a time and minimize cognitive load. By working with small sections of code that are automatically tested, developers can debug code quickly while their minds are still fresh from programming.

Recover faster

CI/CD makes it easier to fix issues and recover from incidents (MTTR). Continuous deployment practices mean frequent small software updates so when bugs appear, it's easier to pin them down.

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