

UDAPEOPLE APP

CI/CD

Implementation Proposal

Benefits of Implementing Continuous Integration / Continuous Deployment tools into our Udapeople Application

Company Name: Udapeople
Organization



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As the team lead on this great project, I feel it is important that I let you know before we commence this project, the importance of implementing CI/CD in this project.

What is CI/CD you may ask? Well, CI/CD stands for **C**ontinuous **I**ntegration and **C**ontinuous **D**elivery of software that we write. In simple terms, it means we make all the processes of building, testing, rolling-back, deploying software automated by other software. So instead of employing other developers to test and check if everything is okay with our software, we just “employ” other software to check our “code” to see if it is error-free and then deploy it on our behalf for every time we make an edit to the original software. It saves time greatly and has the potential to increase our companies’ revenue in the long run once we implement this.

The Problem

The way we build and deploy our current applications are reducing revenue and increasing costs because:

- We use long pre-planned periods to release new software meaning we pay developers for more months of work.
- We cannot easily change direction or infrastructure without leading to downtime and loss of service to customers.
- In case of an eventual server crash, we have to wait a long time before we can deploy again and return service back to normal.
- We are not up to date with current software building standards. Most blue chip companies and start-ups are following the current business trends for building and deploying software, so that investors can trust them in the case of a buy-out / take over.

Solution

Automated Software Processes

We wish to implement industry standard principles that perform automated builds, tests and deployment of software that will also guarantee a safe rollback in case of any unsuccessful build or error in code while still maintaining 99.9% uptime of our services. These are the overall benefits:



It saves the company a lot of money because we are always consistent with all software infrastructure used in the development and all software developers are carried along in the process, leading to shorter time of developing this software.



You can easily switch web servers in case of a failure in building software and thus will always guarantee 99.9% uptime, thus increasing revenue due to high customer engagement.



It improves the quality of software delivery and since all the processes are all automated, you are certain we are following the current business standards and thus leading to increased investor confidence.

Thank you

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