



Udapeople App Business Proposal

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Introduction/Problem Statement

With increase in users demand increasing tremendously and various innovations and technologies rampaging our tech world at a tremendous rate, software application development and deployment has become extremely complex over time.

There are several issues when a software product has undergone and passed several testing/QA phase and after deploying to the production environment, something is not working properly, or a package or software was not deployed properly. This often leads to the customer and stakeholders losing confident in the development team.

To fix this kind of problem, I am proposing an automated deployment process for the Udapeople project using Continuous Integration and Continuous Deployment strategy (CI/CD)

Continuous Integration (CI): Allows developers code to be integrated with the main code base without breaking the build or production software

Continuous Deployment (CD): Allows us to continuously ship codes that have passed the build and test condition to our production environment automatically.



Benefits Of CI/CD

1. REDUCES COST

CI/CD can help to reduce cost incurred by the developers on the company by:

- Catches new error or bugs in the developer code before and after it is merged to the base branch. This allows other developers spend less of their time on trying to track and fix issues caused by others code and spend such time being productive.
- It automatically cleanup any unused infrastructure, hence preventing unnecessary charges on those unused infrastructure

2. FASTER DEPLOYMENT

CI/CD automates the creation of infrastructure during deployment of new code to production which helps limit human interaction and errors that may surface during such interactions.



3. AVOID UNNECESSARY COST

CI/CD can help the business avoid some unnecessary cost through security loopholes, infrastructure setup, removal of unused infrastructure all these process can be automated and any critical issue can be detected at the early stage of development. This also helps to prevent the last minute embarrassment when new deployment doesn't work as expected.

4. INCREASE IN REVENUE

CI/CD increases revenue due to the following reasons:

- Faster deployment to market using CI/CD means faster revenue, the more we release new feature to market the more we generate more revenue
- No need for manual check because all process is automated, so the release cycle will be very fast.



THANK YOU