

Proposal: Implementing CI/CD for UdaPeople

What is CI/CD

This proposal will significantly impact the success of our UdaPeople product and ensure that it meets the expectations of our customers, driving revenue growth. The proposal revolves around implementing Continuous Integration and Continuous Deployment (CI/CD) for our cloud-based software products. CI/CD is a set of practices that can streamline our development processes and provide tangible benefits to our business.

- ▶ **Continuous Integration (CI)** involves automatically integrating code changes from different developers into a shared repository, followed by automated testing to detect issues early. CI ensures that code changes are consistently built and tested, reducing the likelihood of integration problems.
- ▶ **Continuous Deployment (CD)** extends CI by automating the deployment of code changes to production environments. CD ensures that the latest code is always ready for deployment, reducing manual intervention and the risk of human errors during deployment.

Benefits of using CI/CD for UdaPeople

► **Faster Time to Market**

- New features released more quickly:

Implementing CI/CD will enable us to release new features and improvements to UdaPeople more rapidly. This means we can respond to customer needs faster, stay ahead of competitors, and capture new revenue opportunities.

► **Improved Quality and Reliability**

- Less developer time on issues from new developer code leads to less bugs in production, reduced downtime from a deploy-related crash or major bug

CI/CD ensures that code changes are thoroughly tested before reaching production, reducing the number of bugs and errors that could impact our customers. This results in higher customer satisfaction and fewer disruptions to our services!

► **Cost Savings**

- Less human error and faster deployments, reduced infrastructure costs from unused resources

Automating infrastructure tasks reduces the risk of human error and speeds up deployment processes. It also allows us to optimize our cloud resources, leading to cost savings by avoiding unnecessary expenses.

Benefits of using CI/CD for UdaPeople

► **Increased Accountability and Transparency**

- Enhanced visibility into development progress and better allocation of resources

CI/CD promotes transparency in our development process by providing real-time insights into the status of code changes. This, in turn, leads to a more efficient allocation of resources and a smaller backlog of unresolved issues.

► **Enhanced Customer and Team Satisfaction**

- Satisfied customers lead to retention and referrals and satisfied teams are more productive

By delivering a more reliable and feature-rich product, we can increase customer satisfaction, resulting in higher retention rates and word-of-mouth referrals. Additionally, a streamlined development process and reduced firefighting will boost our team's morale and productivity.

Conclusion

- ▶ Incorporating CI/CD into our development workflow is not just a technical choice; it's a strategic move that will drive revenue growth, protect our existing revenue, and control or reduce costs. The benefits outlined in the previous slides demonstrate how CI/CD can align our development efforts with our business goals and ensure the success of UdaPeople.
- ▶ I respectfully request your authorization to proceed with the implementation of CI/CD for UdaPeople, which I believe will be a game-changer for our organization.
- ▶ Thank you for your consideration!!