CI/CD Adoption for Udapeople

- Introducing CI/CD into the Business
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Introducing CI/CD into the Business

What is CI/CD

CI is an acronym for continuous integration while CD is an acronym for continuous delivery.

Continuous Integration(CI) is basically automating our application development process to a particular remote location. Each stage of integration can be managed by using a version control system.

Continuous delivery(CD) is the process of automating the stages of deploying our application to the point of release. The initial deploy stage helps to check for errors, fix and redeploy. The final stage is when the application goes live on production and becomes readily available for end users.

The significance of CI/CD in Udapeople

Currently, the process of development in Udapeople without CI/CD has introduced errors and performance issues into the application. We introduce new features, fix bugs but we merge and proceed to manually deploy. There are no extra checks put in place to ensure that the new features added were performant and the code for fixing bugs were optimised before deployment takes place.

Code review is great but it's not enough to build a reliable, performant and scalable product. This is where the adoption of CI/CD is important. Adoption of CI/CD means that there are are extra checks integrated into our app repository like Github - to ensure that our features and bug fixes are reliable, performant and scalable. After CI is successful, CD would ensure that the destinations/environments where the application will be situated - are well prepared for deployment and monitoring. Also, there's an automated process of looking out for situations like:

- slow or improved performance

- downtimes or uptimes

- unexpected errors or behaviour.

The benefits of CI/CD to Udapeople

- A performant and reliable product means a great user experience.
- Catching bugs through the CI/CD process means that we can trust what we release on production. This helps our stakeholders in presenting the new features to clients with confidence.
- A reliable and scalable product builds clients' trust, attracts new clients and generates more revenue.
- Having a process in place to continuously monitor our products helps to quickly catch errors or any performance spike through our integrated tools before the users flag them. This helps to build trust or confidence in our clients that the product is properly managed.

Thank You.