

UDAPEOPLE

why we need CI/CD

A presentation by David Essien on how CI/CD can help us make more money, and save cost.



What is CI/CD

CI stands for Continuous Integration which refers to the process where small changes made by software developers to the code base is automatically added to the old code.

CD stands for Continuous Delivery, and also Continuous Deployment.

In Continuous Delivery, Changes made to the code base are automatically built, tested, and scanned for issues. When the previously mentioned processes are successful, the changes are automatically now pushed to an environment that closely resembles the production environment that users interact with. These changes are further tested on that environment simulating an actual user.

In Continuous Deployment, the changes are built, tested, scanned, and if they pass these processes, they are automatically pushed to the production environment.

How will this help us save cost?

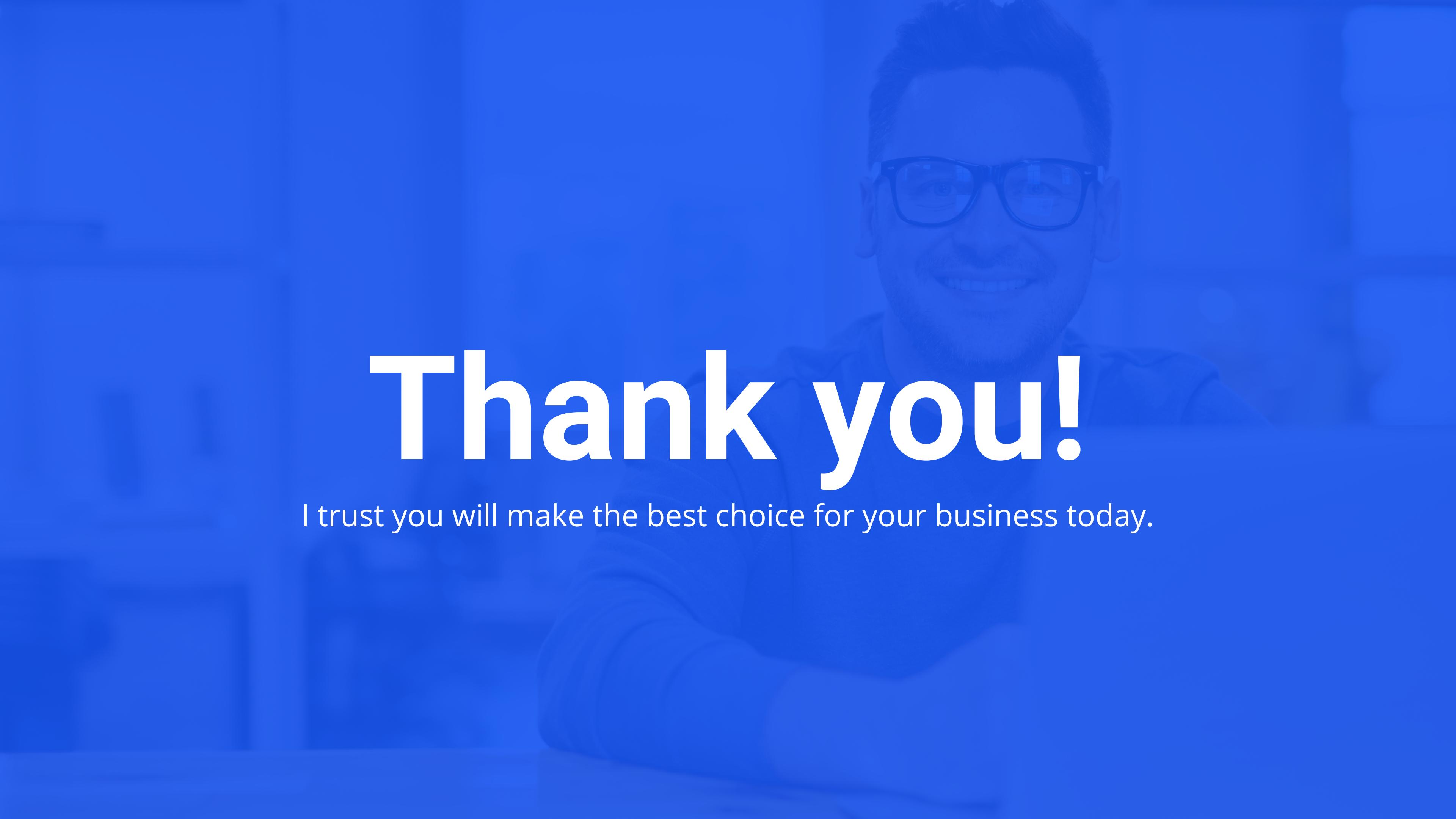
- Software developers spend a lot of time debugging faulty code and performing manual tests to find bugs. Even after this, there is a very high chance that errors will slip into the production environment. Errors in the production environment also mean that the customer care team of Udapeople will have to do a lot of work appeasing angry customers.

With a correctly set up CI/CD process, only code that has passed the tests will make it to production. Also, there will be little need for the customer service team to be engaged with appeasing customers which will save cost on the number of staff and resources needed.

- Reducing the number of errors encountered can also mean that developers now have more time to work on the actual project, which saves costs on hiring more people to work on the same project that was originally taking so many resources because of debugging.
- Downtimes are periods where our services are not usable by the customers. When customers experience lots of downtimes in our services, the next action is to switch to our competitors. This in turn can cost a ton of marketing funds to get more customers or get back the ones who have lost. CI/CD processes will greatly reduce the chances of having downtimes.

How this will help us make more money

- With time taken from fixing bugs, developers can now focus on more features which will make the customers happier and keep them patronizing our services and products.
- When software developers are not tied down by fixing bugs, they become more productive. This improves their motivation and helps them become more creative. A creative software development team makes for more robust software which means more money.
- Having excellent services means more satisfied customers which means more referrals and more money. The CI/CD process ensures the quality of code which means great service and happy customers.
- The ability to release new features rapidly which is what CI/CD enables means that we can get customer feedback early and implement new features that satisfy their needs.



Thank you!

I trust you will make the best choice for your business today.