DEVELOPMENT OF UDAPEOPLE SOFWARE

Fundamentals and Benefits of CI/CD to Achieve, Build, and Deploy Automation for Cloud-Based Software Products

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BENEFITS OF CI/CD

- For the development of our UdaPeople Product, we would need to adopt the CI/CD framework. This will not only provide a speedy delivery of the product to our clients, but the product will be free from a deploy-related crash or a major bug which could have led to dissatisfaction from our customers and clients.

- We will be focusing on the following 4 benefits of CI/CD pipelining and explain the benefits we are sure to accomplish if CI/CD is approved;

- 1. Increased Revenue

- 2. Protect Revenue

- 3. Reduce Cost

- 4. Avoid Cost

FUNDAMENTALS OF CI/CD

▶ **Continuous Integration(CI)** is the practice of merging all developer's working copies to a shared mainline several times a day. CI handles evth that has to do with code.

▶ **Continuous Deployment (CD)** A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here.

Some of the benefits we are sure to incur include the following;

- Less developer time on issues from new developer codes.

- Less bugs in production and less time in testing.

- New value-generating features released more quickly.

- Reduced downtime from a deploy-related crash or major bug

- This would reduce cost immeasurably because of the lesser time spent on issues.

- Smoke test will be automated thereby reducing downtime from a deploy related crash or bug and in turn protects revenue.

- Faster and accelerated feedback loop with Udapeople customers as releases are done more often.

- A reduced downtime period protects our revenue on the long run.

THANK YOU FOR LISTENING