UdaPeople CI/CD

WHAT IS CI/CD ?

- Today everyone including clients, employees and investors are demanding updated product software on regular basis. This requires frequent product deployments.

- Each manual product deployment requires good amount of resource time and infrastructure cost which is recurring.

- Frequent manual product deployments will waste good amount of resource time and thus money hence less product development.

- CI/CD is a process that streamlines the product development and deployment using automation.
  - CI is Continuous Integration, makes product development faster
  - CD is Continuous Deployments, Automates product testing and quick deployments.

Plan → Build → Test → Deploy → Monitor → Feedback

BENEFITS OF CI/CD

- CI/CD process can maximize the product development by improving resource productivity & efficiency by less human intervention thus avoiding error fixing costs.

CI/CD

Faster Product Delivery

Superior Code Quality

Automation

Continuous Feedback

Quick Rollback

Reduced Backlog

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FASTER PRODUCT DELIVERY

- Expensive resources will not be sitting idle when successful CI/CD is in play. No continuous monitoring is required, thus more development can be done

- New value generating feature can be developed quickly

- With Low time to market, organization can beat their competition and improve public relations

SUPERIOR PRODUCT QUALITY

- With Automated Tests, Developers can know about bugs and issues in real time. Resources will not be plagued with endless bug fix requests, overall saving cost and promote better product quality

- Less bugs from Production environment builds a good brand image.

AUTOMATION

- Following human intervention can be avoided and thus less human errors
  - Source Code Management
  - Version Control System
  - Deployment Mechanism
  - Product testing

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QUICK ROLLBACK

- Fail Fast and recover faster - Quickly rollback to previous version in just single click

- Saves teams time, energy, and resources and leads to faster fixes of problem code

CONTINUOUS FEEDBACK

- Unified CI/CD process, gives everyone on the team – including business stakeholders – a way to see what's happening, where it's happening, and what might be going wrong.

- No external tools are required which avoid unnecessary wastage of cost and time.

REDUCE BACKLOG

- With less number of bugs and early detection of bugs, non-critical defects in your team's backlog will decrease.