Benefits of Continuous Integration/Continuous Delivery CICD

What is CI/CD?

- CI/CD is introducing automation into the stages of app development to ensure fast and frequent delivery of value to our customers.

- CI/CD consist of three main concepts vis continuous integration, continuous delivery, and continuous deployment.

- CI/CD essentially eliminates errors that are introduced while integrating new to an app.

Benefits of CI/CD

- **Smaller Code Changes:** CI/CD allows integration of small pieces of code at one time. These reduces debugging time as small code changes are simpler and easier to handle.

- **Improved Test Reliability:** With CI/CD, tests can be written for the small changes introduced to the code base. These not only improves the reliability of the tests, it also improves the quality of the code and assures stakeholders their investment is worthwhile.

- **Faster Release Rate:** With CI/CD, failures are detected faster and as such, can be repaired faster. This leads to increase in release rates.

- **Customer Satisfaction:** With faster release rates, customer feedback can be quickly integrated into the app. Keeping the customer happy translate to more traffic on the app and ultimately more revenue to the company.

- **Reduce Costs:** CI/CD provides automated pipelines that reduces the number of errors that can take place while deploying code to servers. It also eliminate downtime while deploying. CI/CD allows developers to concentrate on product development.

Overall, CI/CD increases the quality of the product by introducing automations which in turns increases the company's ROI.