# UDAPEOPLE APP

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

# What is CI/CD Stand for ?

➢ Continuous integration (CI) :

That helps developers merge their code changes back to a shared branch, or "trunk," more frequently—sometimes even daily.

➢ Continuous Delivery (CD) :

the ability to get changes of all types—including new features, configuration changes, bug fixes and experiments into production *safely* and *quickly* in a *sustainable* way

➢ Continuous Deployment (CD) :

The final stage in the pipeline that refers to the automatic releasing of any developer changes from the repository to the production.

# Benefits of CI/CD to our App 1/2

Automated Smoke Tests (that will Protect our Revenue ) :
- ❑ By reducing downtime caused by deploy-related crash or bugs

Automate Infrastructure Cleanup (that will Reduce Cost) :
- ❑ By reducing infrastructure costs from unused resources

Automate Infrastructure Creation (that will Avoid Cost ) :
- ❑By Less human error, Faster deployments.

Detect Security Vulnerabilities (that will Avoid Cost) :
- ❑ By Prevent embarrassing or costly security holes

## Deploy to Production Without Manual Check :

- ❑ Less time to market would help us to increase our revenue.

## Automated Rollback Triggered by Job Failure :

- ❑ That will Protect Revenue by help us to Quick undo to return production to working state

## Catch Unit Test Failures:

- ❑ Having less bug in our live app and spending less time doing manual testing would help us to avoid cost