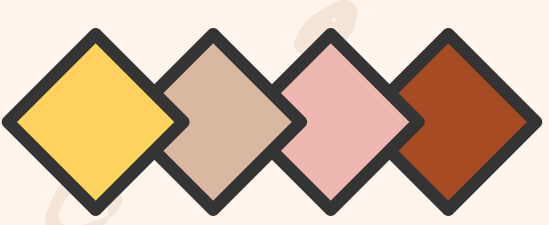


Udapeople

CI/CD benefits proposal





Topic

”

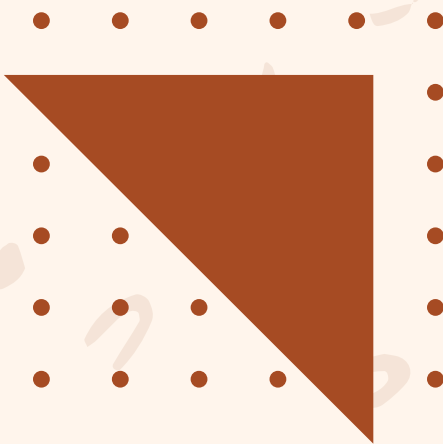
Part 1: What is CI/CD?

”

Part 2: Current problem

”

Part 3: Solution and benefits



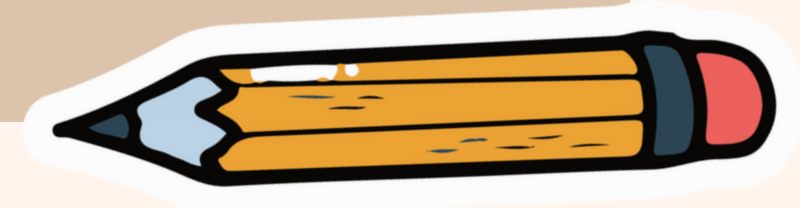
What is CI/CD?

Continuous Integration:

- Automated Build: The code changes trigger an automated build process to compile the code, create binaries, or generate artifacts.
- Automated Testing: Various tests (unit tests, integration tests, etc.) are run to ensure the code changes haven't introduced regressions or errors.

Continuous Deployment / Delivery:

- Automated Deployment: If the tests pass, the code changes can be automatically deployed to staging or pre-production environments.
- Manual Approval (for Continuous Delivery): In the case of Continuous Delivery, a manual approval step might be required before deploying to production.
- Deployment to Production: Once approved (or automatically, in the case of Continuous Deployment), the code changes are deployed to the production environment.



Current problem

1. Manual release process

2. Delays in getting new features into production

3. Late feedback from the business department

4. Error-prone and always leads to delays of production deployments

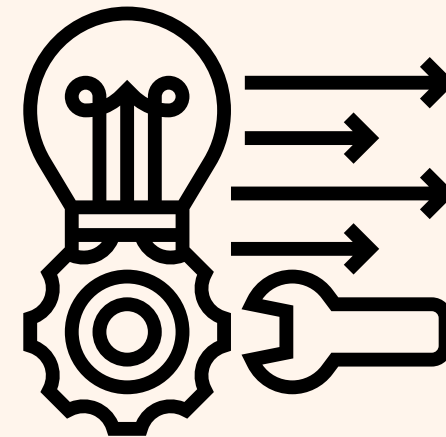
5. Lost opportunities and revenue

6. Prevents us from creating flexible solutions

Solution and benefits

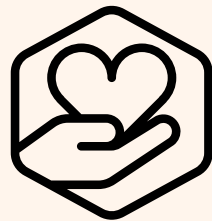
Problem

Manual and error-prone release process
and poor software quality



Solution

Implement Continuous Integration:
automate compiling, testing, code
analysis and artifact storage
Automate Infrastructure Creation



Benefits

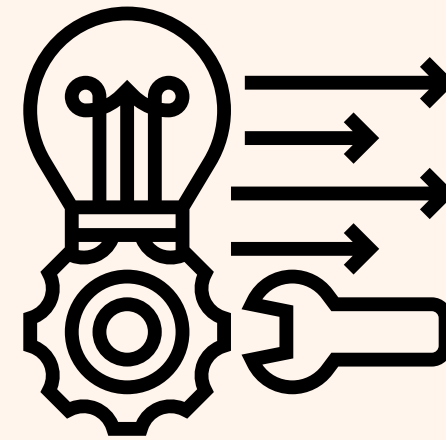
- o Cost reduction due to less human errors
and faster deployments
- o Reduce complexity and save manual
troubleshooting time



Solution and benefits

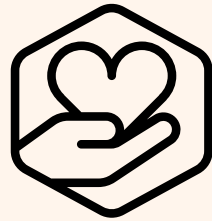
Problem

Delays in getting new features into production, lost opportunities and revenue



Solution

Catch compile and unit test failures after merge



Benefits

- o Less bugs in production
- o More time for developing new features



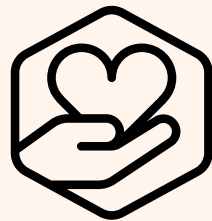
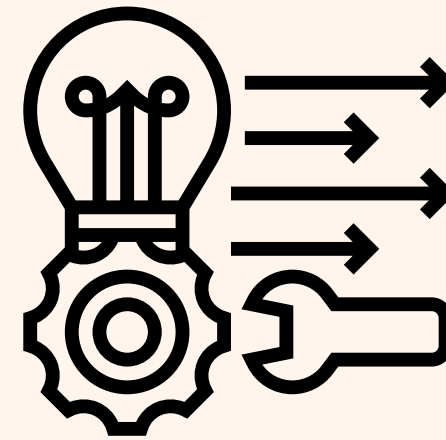
Solution and benefits

Problem

Late customer feedback

Solution

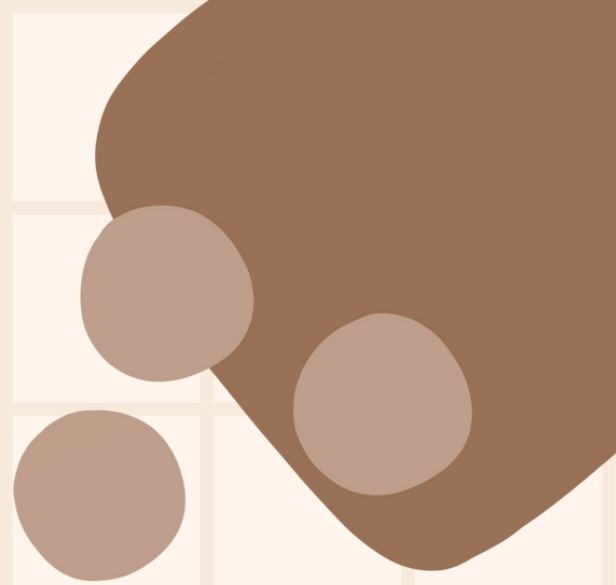
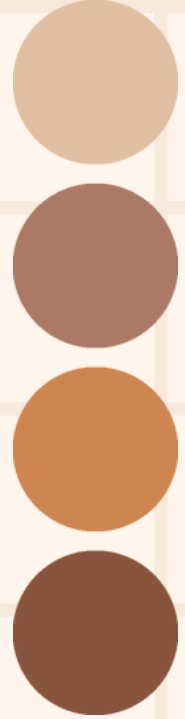
- o Implement Continuous Deployment: automated deployment of changes at any given point in time
- o Involve customers and business stakeholders already in deployment



Benefits

- o Faster feedback cycles of customers lead to higher customer satisfaction rates since they are involved right from the beginning of feature development/deployment and not just at a fixed release date





THANK YOU
SO MUCH!

