

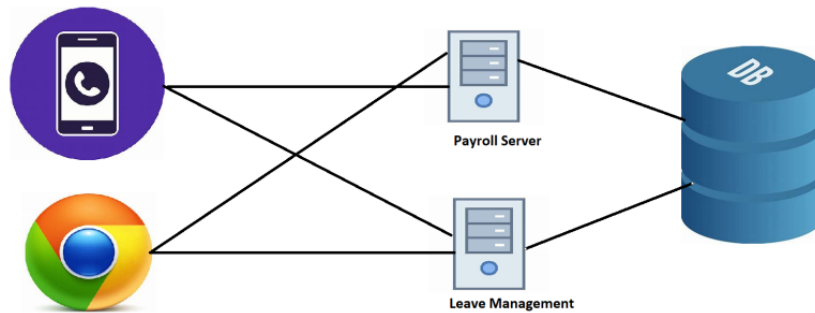


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DevOps Classroomnotes 28/Jan/2023

Story of Build/Releases

- Architecture of payroll application



- For developing this application we have following teams
 - Payroll dev team
 - LeaveMgmt dev team
 - Browser UI team
 - App UI team
- Duration: 1 year
- Clients:
 - coca cola
 - Amul
- Approach 1 (Big Bang integration):
 - Each team will start developing the components independently
 - This has 4 teams working independently for 9 months
 - Day 1 of 10th month, Integration of all the work done by independent teams will done by build/release team
 - This approach is called as Big-Bang integration. This mostly fails and to fix the issues we will added lot of technical debt.
- Approach 2 (Continuous Integration)
 - Each team will start developing the components independently
 - This has 4 teams working independently for 9 months
 - Day 1 of first month we start integration.
 - In this approach the team can identify integration issues from day 1.
 - This is called as Continuous Integration
 - For this to happen, we need tools rather than humans doing the integration.
 - Whenever any team submits code, the integration has to run
 - Integration includes
 - building the code
 - packaging the application
 - running basic automated tests which will tell health of the application.
- The cost of fixing issues at different stages



Agile Ways of Working

- There is a need to release the application frequently
- The need for automating releases increased

What we need

- Tool for managing continuous integrations as well as deployments (releases) to the customer.
- A tool where developers can submit the code
- A tool for managing the project

What we are going to learn

- Agile (Scrum)
- Basic Git
- CI/CD pipelines in Azure DevOps
- Minimum Project management
 - Boards
 - Test Managements

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