



incremental/iterative process model



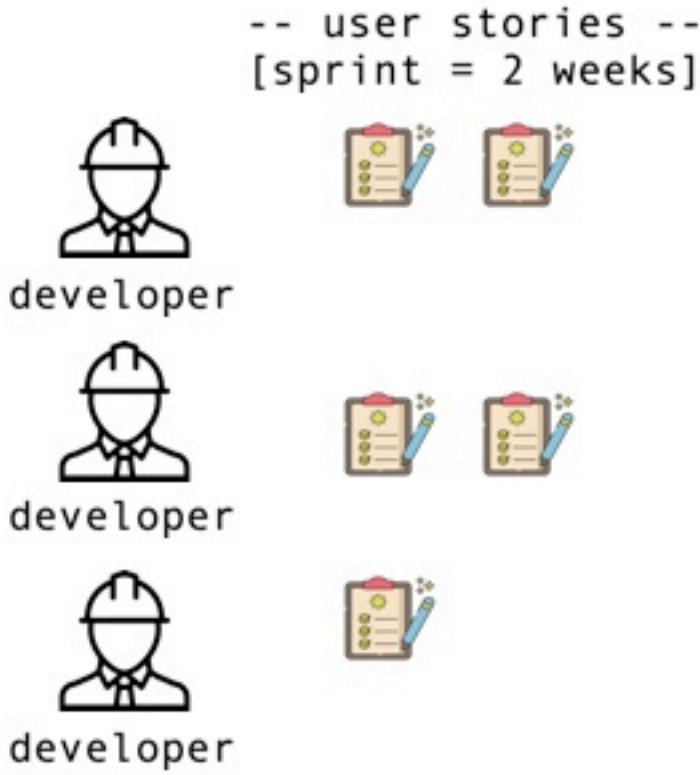
Phase#1
[01/01/2023 - 06/30/2023]

- design and development = 01/01/2023 - 04/30/2023 (code cut-off)
- qa/uat [01/05/2023 - 06/15/2023]
- release [06/16/2023 - 06/30-2023]

rb-1.0 (trunk) = the entire code/including the commit logs/revisions are copied in branch (locked)

Phase#2
Begin the development from Trunk

- trunk
- branches
- tags



ci/cd pipeline ----- devops is all about fast-paced application development and fast-paced application delivery

continuous integration (CI)
continuous deployment (CD)
continuous delivery (CD)

how do we support fast-paced application development?
Agile Methodology (fast-fail)

how does fast-paced delivery?
The companies often likely to fail more when they are delivery slow than the companies delivering fast
To implement fast-paced application delivery we need to use

- devops automation tools
- continuous integration/delivery pipelines

feature -> pr -> develop (branch) (continuous integration-pipeline)

- |-build
- |-unittest reports
 - |-testcoverage
 - |-codereview
- |-build passed/failed
- |-peer code review (process)

once the build is passed and code review approvals are received then only the PR will allowed to merge into develop branch.

upon merging the code into develop:

continuous-delivery pipeline

- infra (terraform)
- ansible/puppet/chef (software configuration management)
- maven (compiling/packaging)
- artifacts pushed to artifactory repository (internal maven repo)
- the application will be deployed on the above infra
- integration-tests (e2e developer)

-> failed = then the code will be rollback to the previous state and will not be futher promoted to uat/

prod
-> passed = deliver this code to qa for testing

