

# Branching Development Model

Course-end Project 1

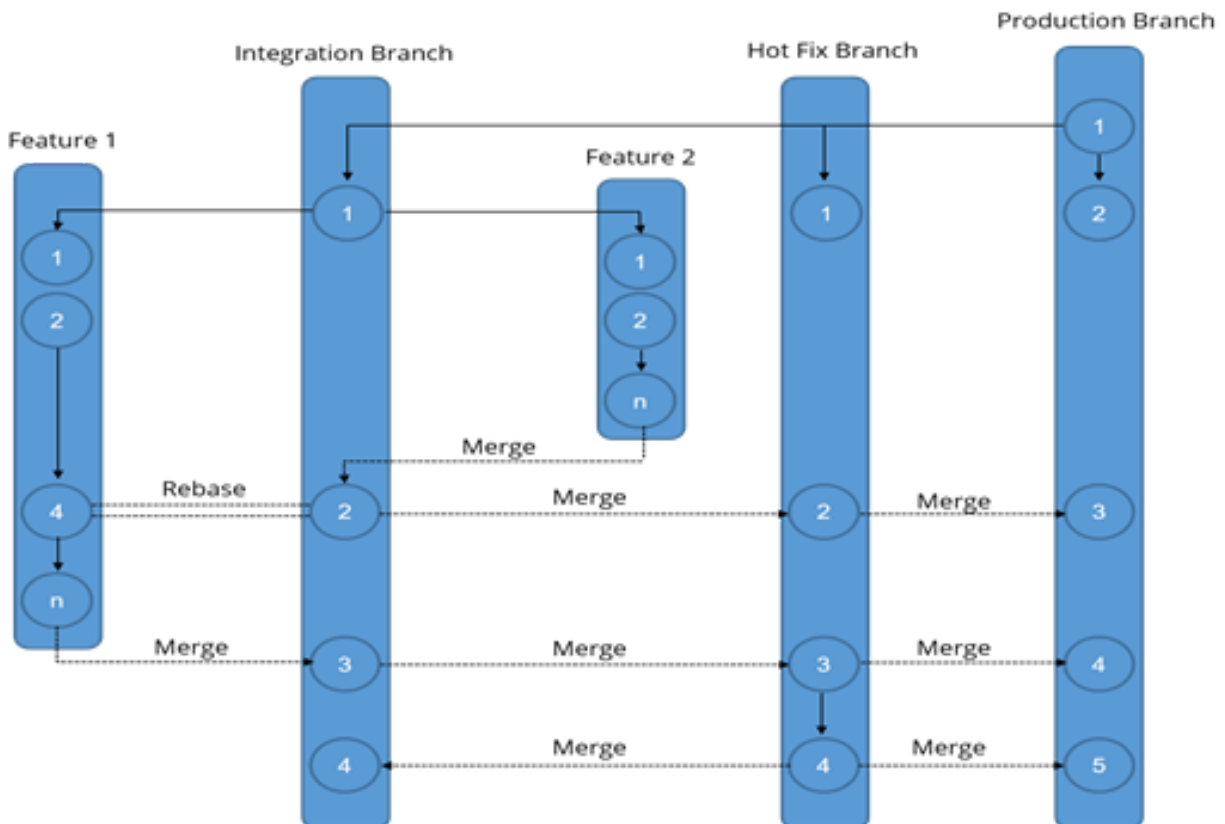
## DESCRIPTION

Create a branching model to help your team understand the Git Feature Branch Workflow for faster and efficient integration of work

### Background of the problem statement:

M-theta Technology Solutions hired you as a DevOps Architect. It is undergoing an infrastructural change to implement DevOps to develop and deliver the products. Since M-theta is an Agile organization, they follow the Scrum methodology to develop the projects incrementally. Hence, the company wants to adopt Git as a Source Code Management (SCM) tool for faster integration of work and smooth transition into DevOps.

So, as a DevOps Architect, you have been asked to build a branching model to demonstrate the Git Feature Branch Workflow for the company's engineering team. In the branching model, you are required to create a Production branch which will act as the main (master) branch, an Integration branch which will again have two branches inside it namely Feature 1 and Feature 2, and a Hotfix branch which will be used for fixing any issues that could come up from Integration or Production branches.



**You must use the following:**

Git: To build the branching model

**Steps to perform:**

**Create a Git Repo and add couple of reviewers from your team**

1. Start with the Production branch (master branch), and then create a HotFix and Integration branch
2. Subsequently, create Feature 1 and 2 branches that integrate to the Integration branch as shown in the above figure
3. Commit some changes in the Feature 2 branch and Create Pull Request, add 2 reviewers, get the PR reviewed & merge it into the Integration branch. Delete this branch once merging is complete
4. Commit some changes in the Feature 1 branch and rebase it to the Integration branch
5. Create Pull Request, add 2 reviewers, get the PR reviewed & Merge the Integration branch into Hotfix and Production branch to update these branches
6. Commit some changes in Feature 1 branch, and then Create Pull Request, add 2 reviewers, get the PR reviewed & merge it into Integration, Hotfix, and Production branch. Delete this branch once merging is complete
7. Commit some changes in the Hotfix branch and Create Pull Request, add 2 reviewers, get the PR reviewed & merge it into the Production as well as the Integration branch
8. Create a proper ReadMe file for the Repo.