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**Branching Development Model**

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.

A picture containing game, controller, playing, computer

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**You must use the following:**

Git: To build the branching model

**GitHub Link:** [**https://github.com/OsamaBujwaied/project**](https://github.com/OsamaBujwaied/project)

**Steps to perform:**

1. Start with the Production branch (master branch), and then create a **HotFix  and Integration branch**

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1. Subsequently, create **Feature 1 and 2** branches that integrate to the Integration branch as shown in the above figure

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1. Commit some changes in the **Feature 2** branch and merge it into the Integration branch. Delete this branch once merging is complete

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1. Commit some changes in the **Feature 1** branch and rebase it to the Integration branch

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1. Merge the Integration branch into **Hotfix** and Production branch to update these branches

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1. Commit some changes in **Feature 1** branch, and then merge it into **Integration**, **Hotfix**, and **Production** branch. Delete this branch once merging is complete.

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1. Commit some changes in the **Hotfix** branch and merge it into the **Production** as well as the **Integration** branch

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