**4. GIT – HOL**

The objective of this lab is to understand how to resolve merge conflicts when multiple users modify the same files and how to use Git commands and tools like P4Merge to identify and resolve conflicts safely.

We follow the following steps inside the working Git repository **GitDemo**  which we created in previous handson to complete this handson :-

**Steps :**

1. **Verify clean state on master :-**

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1. **Create and switch to a new branch GitWork :-**



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1. **Create and commit a file hello.xml on GitWork :-**
2. Create the file and add initial content.

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1. Append more content.

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1. Stage and commit.

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1. **Switch back to master & create a conflicting hello.xml :-**
2. Switch branch.

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1. Create conflicting version of hello.xml.

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1. Stage and commit.

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1. View commit history graph.

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1. Check the differences with Git diff tool.

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1. **Merge GitWork into master & resolve the conflict using P4Merge :-**
2. Run

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1. Launch merge tool.

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1. **Commit the resolved merge :-**

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1. **Ignore backup files and clean up :-**
2. Add backup file to .gitignore.

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1. Delete merged branch.

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1. View commit history graph.

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