Training Day 5 Report

Date: 01 July 2025

S.T.E.P – Science & Technology Entrepreneurs' Park, GNDEC, Ludhiana

Topic Covered: Forking and Branching in Git & GitHub

On the fifth day of the MERN Stack training, we explored two important concepts in collaborative

development — forking and branching. These are essential when working with open-source projects or in

team-based environments.

Key Concepts Covered

Forking

• Forking means creating a personal copy of someone else's repository on GitHub.

• It allows you to experiment or contribute to open-source projects without affecting the original

repository.

After making changes in your forked version, you can request the original author to accept those

changes using a pull request.

Branching

A branch is a parallel version of the repository.

• It allows you to work on new features or fixes without changing the main codebase.

• After work is complete, the branch can be merged back into the main branch.

Activities Performed

1. Understanding Forks on GitHub

• Explored how to fork a public repository.

• Made personal changes to the forked repository.

• Learned the purpose of pull requests in contributing to other repositories.

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2. Creating and Managing Branches

- Understood the structure of the default (main) branch.
- Created new branches for separate features or updates.
- Made changes in branches and merged them back into the main branch.

3. Visualizing Branches and History

- Observed how multiple branches appear in GitHub.
- o Understood the difference between merge and rebase (conceptually).

Task of the Day

- Forked a sample project repository provided by the trainer.
- Created a new branch within the forked repo to add a feature (e.g., updated heading or added a new section).
- Merged the branch into the main branch.
- Practiced submitting a pull request to the trainer's original repository (simulated environment).

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