Training Day 4 Report

Date: 30 June 2025

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

Topic Covered: Introduction to Git and GitHub

The fourth day of training focused on understanding **version control** using **Git**, and how to manage code repositories using **GitHub**. These tools are essential for tracking changes, collaborating with team members, and storing projects online securely.

Key Concepts Covered

Git

- Git is a version control system used to track changes in files and coordinate work among developers.
- It allows us to maintain the history of code, switch between versions, and undo mistakes efficiently.

GitHub

- GitHub is a cloud-based hosting service that lets developers store, share, and manage their Git repositories online.
- It provides a user interface for managing code, branches, issues, pull requests, and collaboration.

Activities Performed

1. **GitHub Account Creation**

   - Each student created their own GitHub account.
   - The GitHub dashboard and its key features were introduced.

2. **Git Installation**

- ○ Git was downloaded and installed on Windows systems.

- ○ We verified that Git was correctly installed and ready to use.

3. **Basic Git Configuration**

- ○ Configure user details like name and email so that commits are correctly attributed.

4. **Creating a GitHub Repository**

- ○ A new repository was created on GitHub for hosting our practice project.

- ○ Students were guided on how to write repository names, descriptions, and set visibility (public/private).

5. **Connecting Local Project to GitHub**

- ○ We initialized Git in our local project folder.

- ○ Changes in the project were tracked and saved using Git.

- ○ The project was connected to the GitHub repository and changes were uploaded (pushed).

6. **Understanding Workflow**

- ○ Concepts like staging (add), committing, and pushing were explained with real examples.

- ○ We also viewed the commit history and learned how to read changes in GitHub.

Task of the Day

Each student created a simple HTML project (e.g., a profile or homepage) and:

- ● Initialized Git to track changes

- ● Committed the code after making updates

- ● Uploaded the project to a personal GitHub repository

- ● Shared the repository link with the trainer for review