**Progress Report: The Odin Project - Foundations Path**

**Name:** PIYANSU BAGARIA

**Reg No :** 230962150  
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**Completed Till:** Git Basics

**Introduction to The Odin Project**

The Odin Project is an open-source web development curriculum that covers a wide range of foundational and advanced topics. This project is designed to help beginners become proficient web developers by learning through hands-on tasks.

**A. Introduction and Installations**

* + Installed essential tools like:
    - **VS Code:** IDE for writing codes

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* + - **Git Bash:** For version control.

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* + Set up basic configurations on the command line and Git.

**B. The Web**

* Basic understanding of how the web works (client-server model).
* The role of HTTP and DNS in web communication.
* Introduction to HTML, CSS, and JavaScript as the building blocks of websites.
* **Key takeaway:** Grasping the interaction between clients and servers is essential for future web development.

**C. Command Line Basics**

* + The command line allows for direct interaction with the operating system via text-based commands.
  + **Basic navigation commands:**
    - pwd: Print working directory to show the current directory.
    - ls: List files and directories.
    - cd: Change directories.
    - mkdir: Create a new directory.
    - rm: Remove files or directories.
  + **Commands for manipulating files and directories:**
    - touch: Create an empty file.
    - mv: Move or rename files.
    - cp: Copy files or directories.
    - rm -r: Recursively remove directories.

**D. Git Basics**

* Git is a critical tool for software development, particularly for tracking changes and collaborating efficiently.
* Understanding version control and the importance of Git in collaborative projects.
* Learned basic Git commands:
  + git init, git add, git commit, git status, git log.
  + Working with repositories and branches.
* Pushed code to a remote repository on GitHub.

**E. Git Commands**

* git --version : Check version of git installed

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* git init: Initialize a new Git repository. Also creates a hidden folder ‘.git’.



* git add <fiilename>: Stage changes for the next commit. Filename can be used to stage it or a ‘.’ can be used to add all current files to staging area.

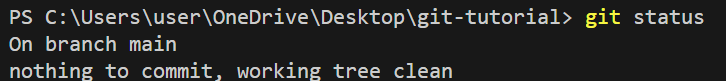


* git commit -m "message": Commit staged changes with a message.

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* git push: Push commits to the remote repository.
* git pull: Fetch and merge changes from the remote repository.
* git status: Check the status of your working directory.



* git log: View commit history. ‘--all' can be used to show all versions. ‘--graph' can be used to show things graphically in command prompt.

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