Lahore Garrison University
DHA Phase 6 Lahore

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Section	**D**
Subject	**Software Engineering**
Instructor Name	**Mr. Muhammad Yousaf**

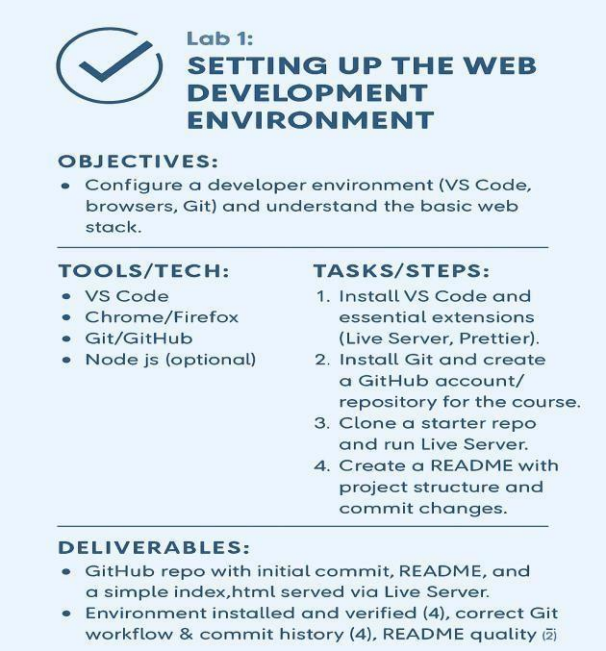
Lab 1: Setting up the Web Development Environment

- Objectives:
- Configure a developer environment (VS Code, browsers, Git) and understand the basic web stack.
- Tools/Tech:
- VS Code, Chrome/Firefox, Git/GitHub, Node.js (optional) - Tasks/Steps:

1. Install VS Code and essential extensions (Live Server, Prettier).
2. Install Git and create a GitHub account/repository for the course.
3. Clone a starter repo and run Live Server.
4. Create a README with project structure and commit changes.

- Deliverables:
- GitHub repo with initial commit, README, and a simple index.html served via Live Server.
- Environment installed and verified (4), correct Git workflow C commit history (4), README quality (2).

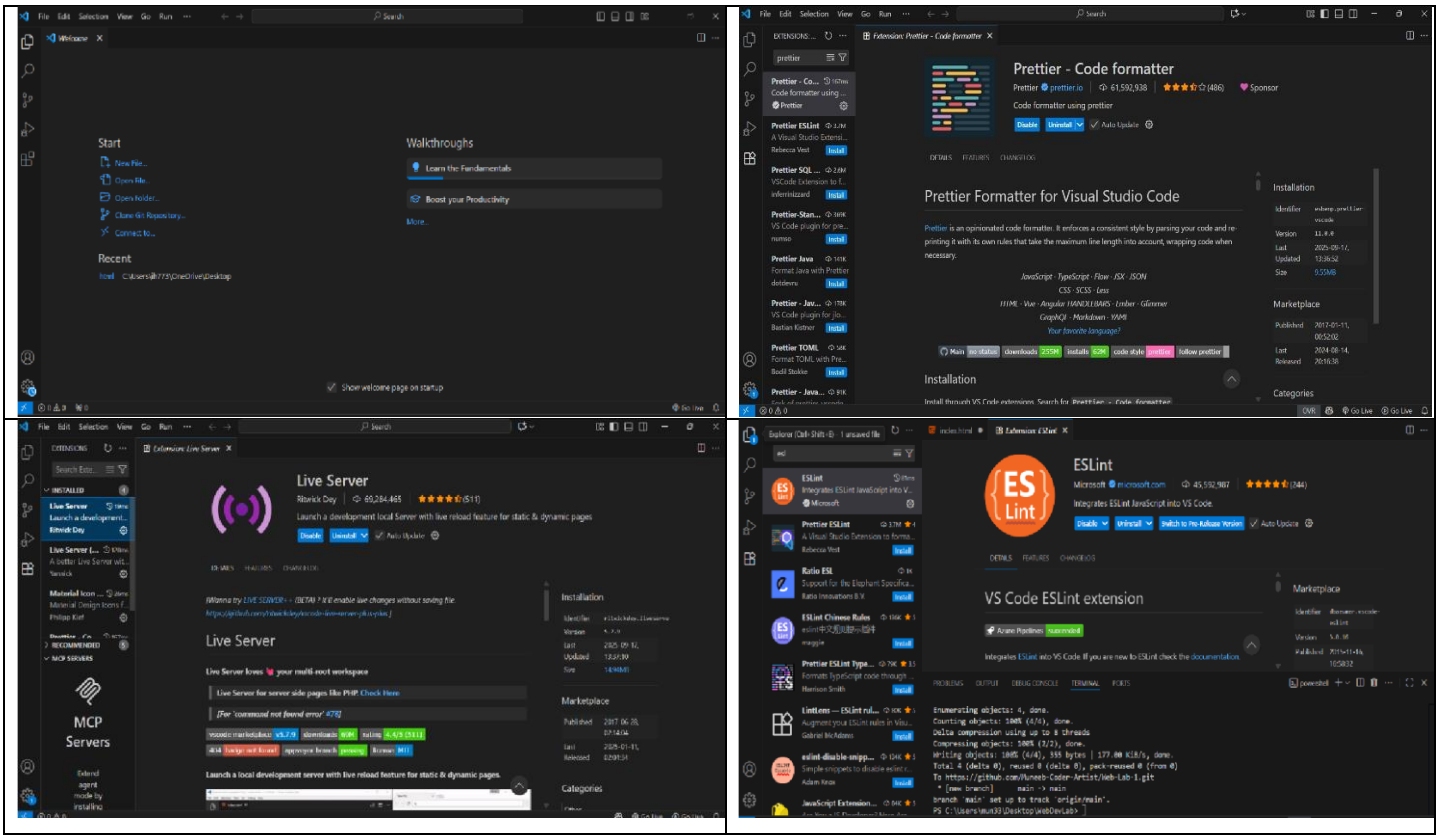
Solution:



Complete Installation Steps for Web Development Setup

1. Install a Code Editor

- Download and install Visual Studio Code
- Optional: Install extensions like Live Server, Prettier, and ESLint



2. Install Web Browsers

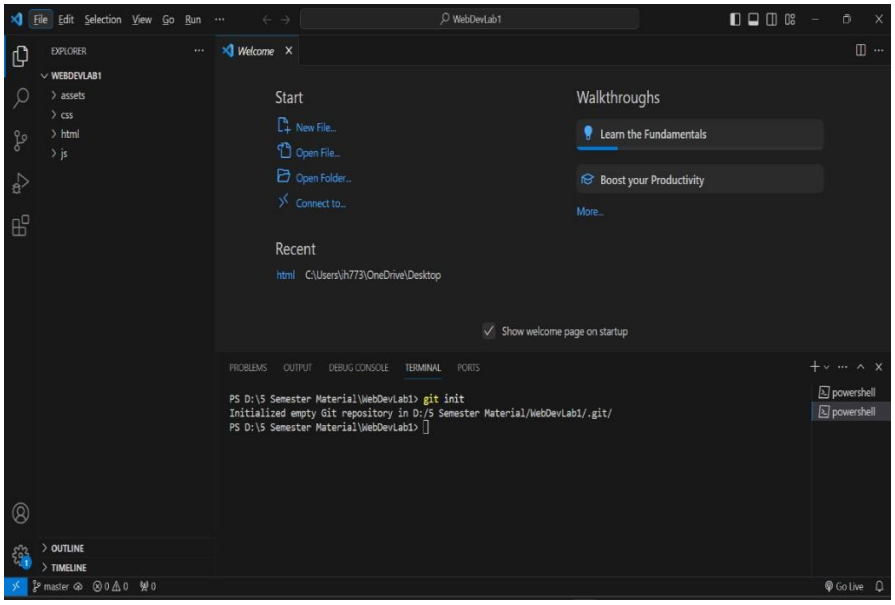
- Ensure you have the latest versions of **Google Chrome** and **Mozilla Firefox** for testing

3. Set Up Version Control

- Install Git
- Configure Git with your username and email:
- `git config --global user.name "Your Name"`
- `git config --global user.email "you@example.com"`

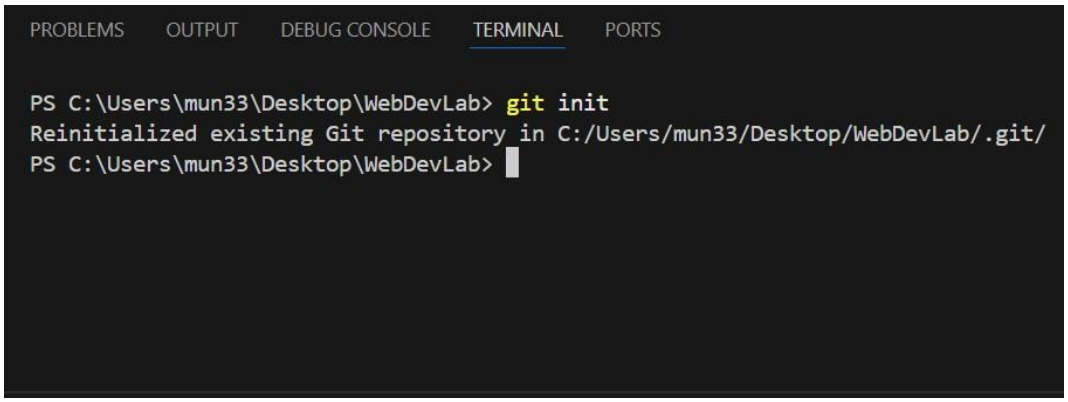
4. Create a Project Folder

- Make a folder named `WebDevLab1` on your desktop or preferred location
- Inside, create subfolders: `html`, `css`, `js`, and `assets`



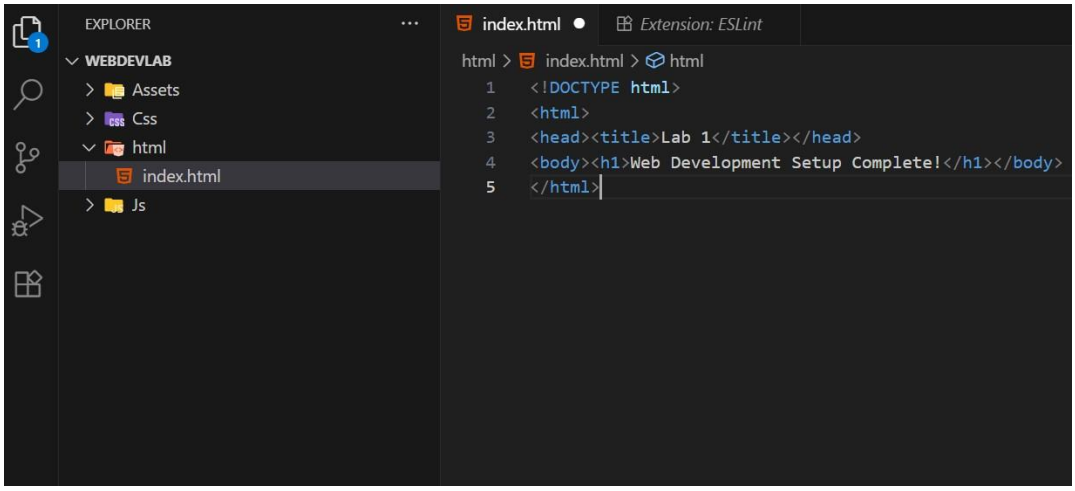
5. Initialize Git Repository

- Open the folder in VS Code • Run:
- `git init`



6. Install Live Server

- In VS Code, go to Extensions → Search for “Live Server” → Click Install
- Right-click your `index.html` file → “Open with Live Server”



7. Verify Setup

- Open `index.html` and add:
- `<!DOCTYPE html>`
- `<html>`
- `<head><title>Lab 1</title></head>`
- `<body><h1>Web Development Setup Complete!</h1></body>`
- `</html>`
- Launch with Live Server to confirm everything works

Web Development Setup Complete!

CONCLUSION:

In this lecture, we learned the basics of HTML and CSS which are the foundation of web development.

We understood how HTML structures a webpage and CSS makes it look attractinThis session helped us

build our first simple webpage using these core concepts. Overall, it gave us a strong start toward

creating and designing websites.

Rubic:

Performance			Lab Report		
Description	Total Marks	Marks Obtained	Description	Total Marks	Marks Obtained
Ability to Conduct practical	5		Structure	5	
Data Analysis s Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

Instructor Signature _____