

Lahore Garrison University

DHA Phase 6 Lahore

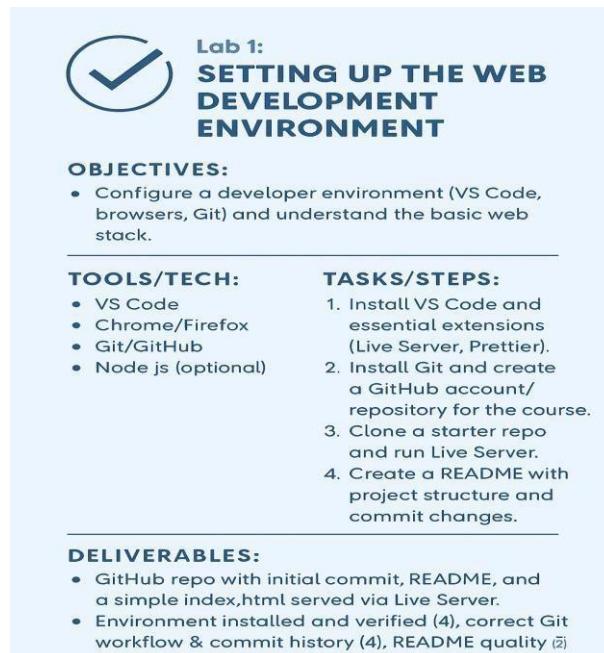


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Section	D
Subject	Software Engineering
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Lab 1: Setting up the Web Development Environment

- 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 & commit history (4), README quality (2).

Solution:



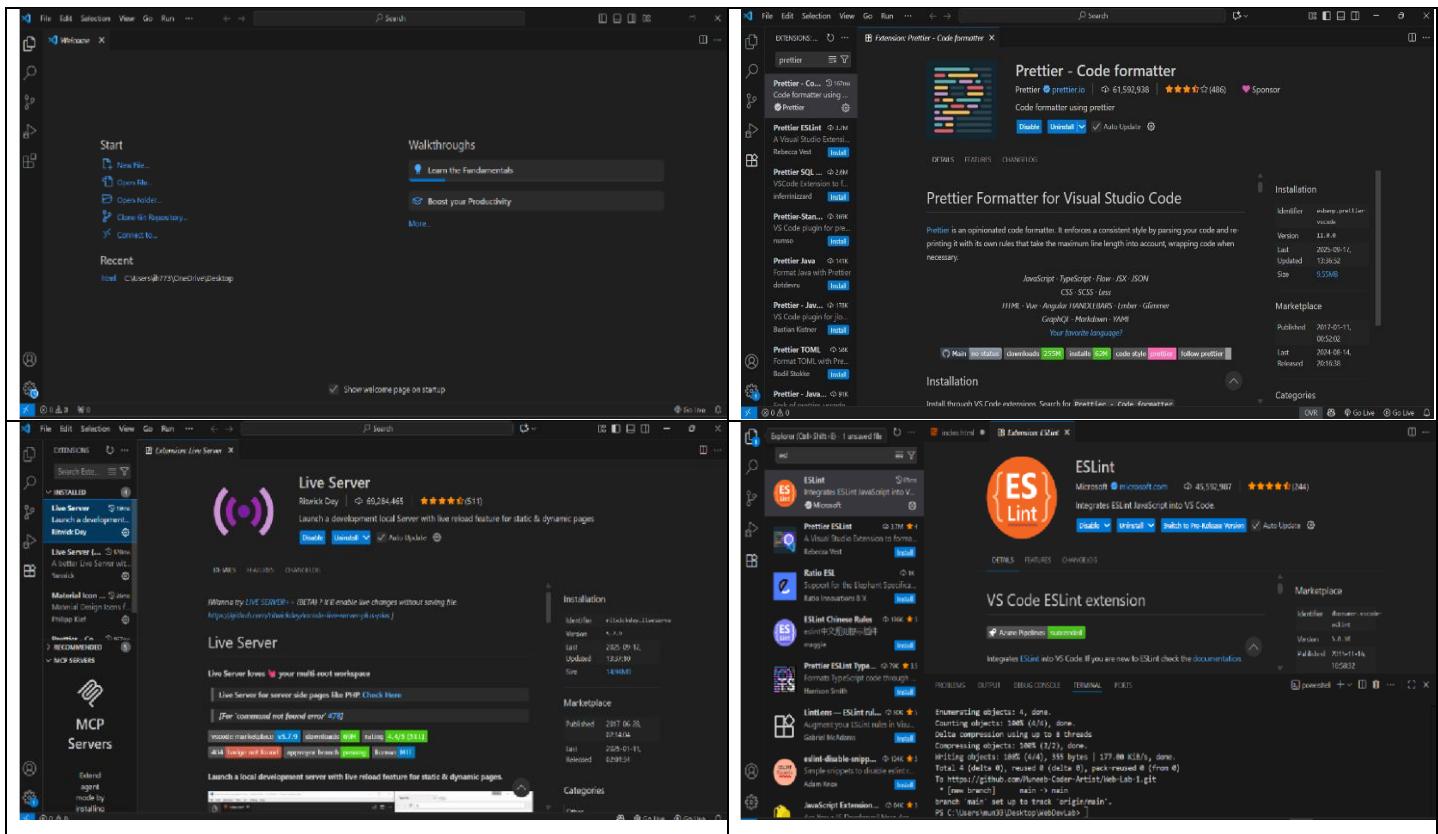
The image shows a template card for 'Lab 1: SETTING UP THE WEB DEVELOPMENT ENVIRONMENT'. It features a large checkmark icon on the left. The title is at the top right. Below the title are three main sections: 'OBJECTIVES', 'TOOLS/TECH', and 'DELIVERABLES', each with a list of items. A horizontal line separates 'TOOLS/TECH' from 'DELIVERABLES'.

Lab 1: SETTING UP THE WEB DEVELOPMENT ENVIRONMENT	
OBJECTIVES: <ul style="list-style-type: none">• Configure a developer environment (VS Code, browsers, Git) and understand the basic web stack.	TOOLS/TECH: <ul style="list-style-type: none">• VS Code• Chrome/Firefox• Git/GitHub• Node.js (optional) TASKS/STEPS: <ol style="list-style-type: none">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: <ul style="list-style-type: none">• GitHub repo with initial commit, README, and a simple index.html served via Live Server.• Environment installed and verified (4), correct Git workflow & commit history (4), README quality (2)	

■ 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

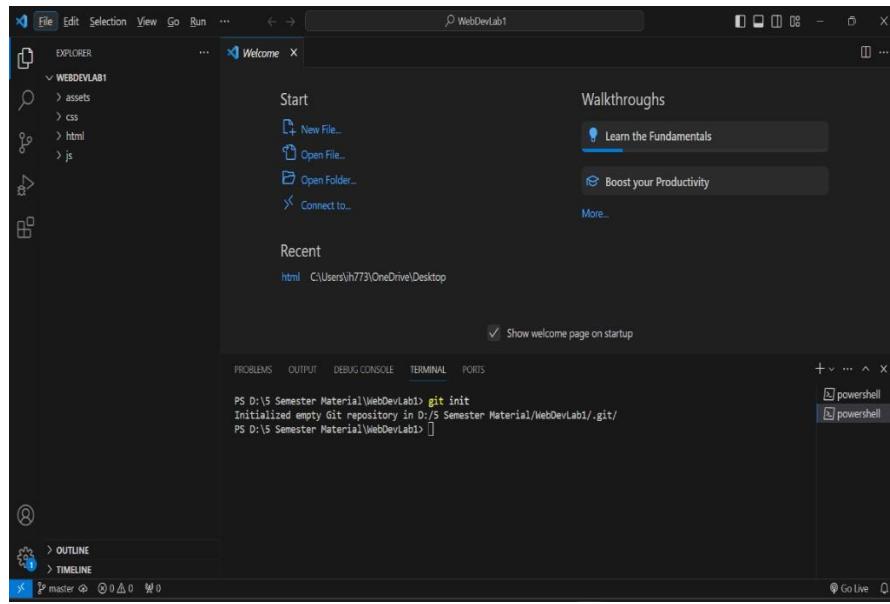
3. Set Up Version Control

- 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`, and `js`, and `assets`



5. Initialize Git Repository

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

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\mun33\Desktop\WebDevLab> git init
Reinitialized existing Git repository in C:/Users/mun33/Desktop/WebDevLab/.git/
PS C:\Users\mun33\Desktop\WebDevLab>
```

The screenshot shows the VS Code interface with the 'TERMINAL' tab selected. The terminal window displays the command 'git init' being run in a PowerShell session. The output shows that the command has successfully reinitialized an existing Git repository in the current directory. The status bar at the bottom of the terminal window indicates 'powershell' is selected.

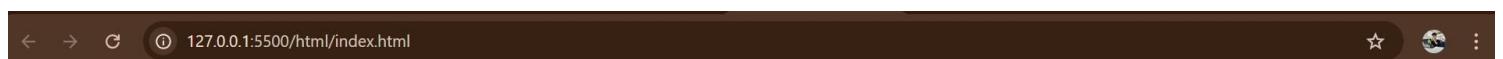
6. Install Live Server

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

```
index.html • Extension: ESLint
html > index.html > html
1  <!DOCTYPE html>
2  <html>
3  <head><title>Lab 1</title></head>
4  <body><h1>Web Development Setup Complete!</h1></body>
5  </html>
```

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 attractive. This 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 & Interpretation	5		Efficiency	5	
Total Marks obtained			Total Marks Obtained		

Instructor Signature _____