

# WEB TECHNOLOGY(LAB)

## Lab 1 Task

(BSCS)

By

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## Lab 1: Setting up the Web Development Environment

### Objectives

- To configure the developer environment using **VS Code, browsers, and Git**.
- To understand the **basic web development stack**.

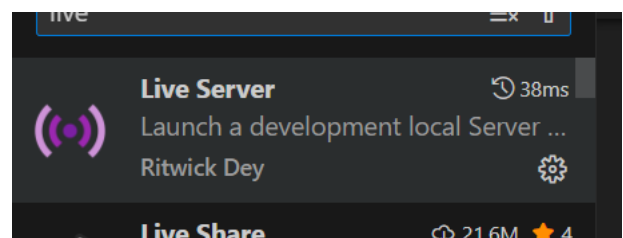
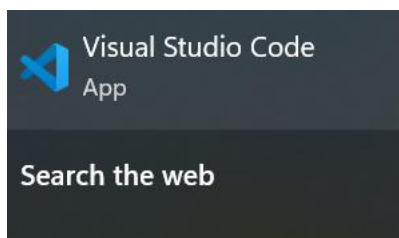
### Tools / Technologies

- **Visual Studio Code (VS Code)**
- **Google Chrome / Mozilla Firefox**
- **Git / GitHub**
- **Node.js (optional)**

### Tasks / Steps

#### Step 1: Install Code Editor

- Download and install **Visual Studio Code** from <https://code.visualstudio.com>.
- Install essential extensions:
  - **Live Server**
  - **Prettier**



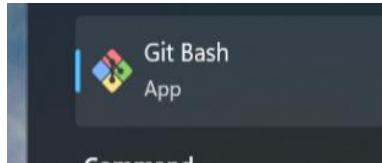
#### Step 2: Install Web Browsers

- Install or update the latest versions of **Google Chrome** and **Mozilla Firefox** for testing your web pages.



### Step 3: Set Up Version Control (Git)

- Download and install **Git** from <https://git-scm.com>.
- Configure Git with your username and email:
- `git config --global user.name "Your Name"`
- `git config --global user.email "you@example.com"`



```
MINGW64:/d/Uni/5th Semester/Web Technologies/WT Lab/WebDevLab1
hp@DESKTOP-E5Q147R MINGW64 /d/Uni/5th Semester/Web Technologies/WT Lab/WebDevLab1 (main)
$ git config --global user.name "Ateeb Qaiser"

hp@DESKTOP-E5Q147R MINGW64 /d/Uni/5th Semester/Web Technologies/WT Lab/WebDevLab1 (main)
$ git config --global user.email "ateebqaiser243@gmail.com"

hp@DESKTOP-E5Q147R MINGW64 /d/Uni/5th Semester/Web Technologies/WT Lab/WebDevLab1 (main)
$ git config --global --list
user.name=Ateeb Qaiser
user.email=ateebqaiser243@gmail.com

hp@DESKTOP-E5Q147R MINGW64 /d/Uni/5th Semester/Web Technologies/WT Lab/WebDevLab1 (main)
$
```

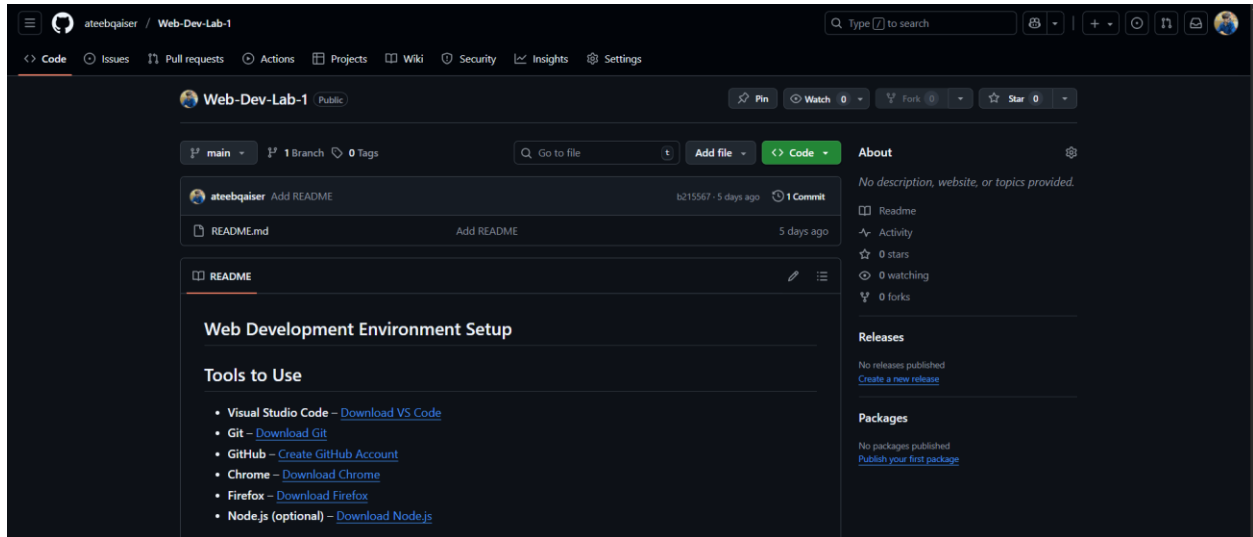
### Step 4: Create Project Folder

- Create a folder named **WebDevLab1** on your desktop or preferred location.
- Inside it, make these subfolders:
- `html/`
- `css/`
- `js/`
- `assets/`

Name	Date modified	Type	Size
assets	10/2/2025 8:32 PM	File folder	
css	10/2/2025 8:31 PM	File folder	
html	10/2/2025 8:31 PM	File folder	
java	10/2/2025 8:32 PM	File folder	
index.html	10/2/2025 8:48 PM	Chrome HTML Docu...	1 KB
README.md	10/2/2025 8:42 PM	Markdown Source File	1 KB

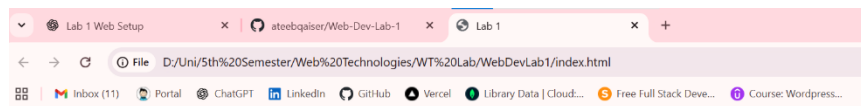
## Step 5: Initialize Git Repository

- Open the folder in **VS Code**.
- Open **Terminal** in VS Code and run:
- `git init`



## Step 6: Install and Use Live Server

- In VS Code, go to **Extensions** → **Search “Live Server”** → **Install**.
- Create a file named **index.html** in your project folder and add this code:
- `<!DOCTYPE html>`
- `<html>`
- `<head>`
- `<title>Lab 1</title>`
- `</head>`
- `<body>`
- `<h1>Web Development Setup Complete!</h1>`
- `</body>`
- `</html>`
- Right-click **index.html** → “Open with Live Server”.



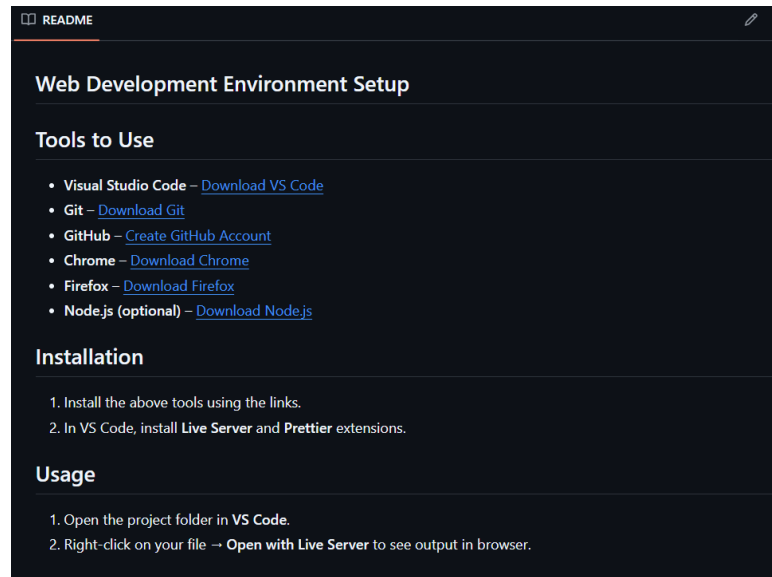
**Web Development Setup Complete!**

## Step 7: Verify Setup

- Confirm that the browser displays:  
**“Web Development Setup Complete!”**
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## Step 8: Create a README File

- In your project folder, create **README.md** and write:
- # WebDevLab1
- ## Project Structure
- - html/
- - css/
- - js/
- - assets/
- Commit and push to GitHub:
- git add .
- git commit -m "Initial commit with project setup"
- git remote add origin <your\_repo\_link>
- git push -u origin main



## CONCLUSION:

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## RUBRICS:

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 \_\_\_\_\_