WEB TECHNOLOGIES(Lab)

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Lab1 : SETTING UP THE WEB DEVELOPMENT ENVIRONMENT

Objective:

The objective of this lab is to set up a complete web development environment and understand how to use Visual Studio Code, Git, and Live Server for creating and testing basic web projects.
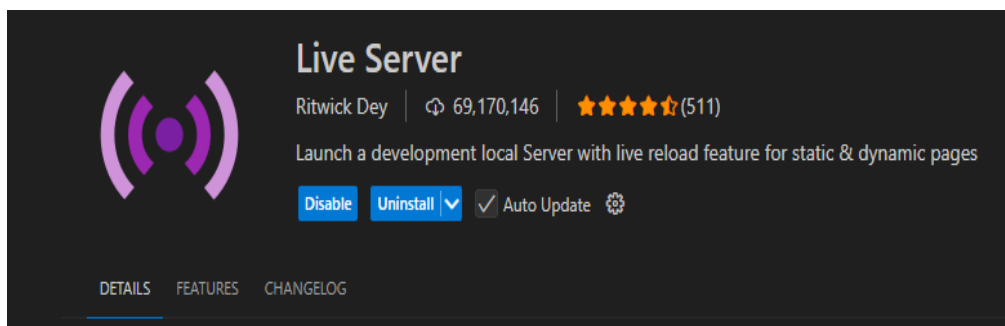
Tools & Technologies:

- Visual Studio Code
- Google Chrome / Mozilla Firefox
- git & gitHub
- Node.js (optional)
- Live Server extension

Steps / Procedure:

Write the steps **exactly like this (in paragraph or numbered form):**

1. Installed VS Code:

Downloaded and installed Visual Studio Code. Added extensions like Live Server.

2. Installed Web Browsers:

Updated Google Chrome and Mozilla Firefox for website testing.

3. Installed Git and configured it:

Downloaded Git from https://git-scm.com then opened VS code terminal and configured it using:

Git Commands:

1. git config --global user.name "Ahmad Awan"
2. git config --global user.email "abubakarbscs42@gmail.com"
3. git config –global –list

```
PS C:\Users\Ahmad Awan\OneDrive\Desktop>     git config --global user.name " A
PS C:\Users\Ahmad Awan\OneDrive\Desktop> git config --global user.name "Ahma
d Awan"
PS C:\Users\Ahmad Awan\OneDrive\Desktop> git config --global user.email "abubakarbscs42@gmail.com"
PS C:\Users\Ahmad Awan\OneDrive\Desktop> git config --global --list
gui.recentrepo=C:/Users/Ahmad Awan/OneDrive/Desktop/new
user.name=Ahmad Awan
user.email=abubakarbscs42@gmail.com
PS C:\Users\Ahmad Awan\OneDrive\Desktop>
```

4. Create a Project Folder:
Made a folder named **WebDevLab1** and inside it created subfolders – HTML, CSS, JS, and assets.

5. Initialized Git Repository:

Opened the folder in VS Code and ran: **git init**

```
● PS C:\Users\Ahmad Awan\OneDrive\Desktop> git init
  Initialized empty Git repository in C:/Users/Ahmad Awan/OneDrive/Desktop/.git/
○ PS C:\Users\Ahmad Awan\OneDrive\Desktop>
```
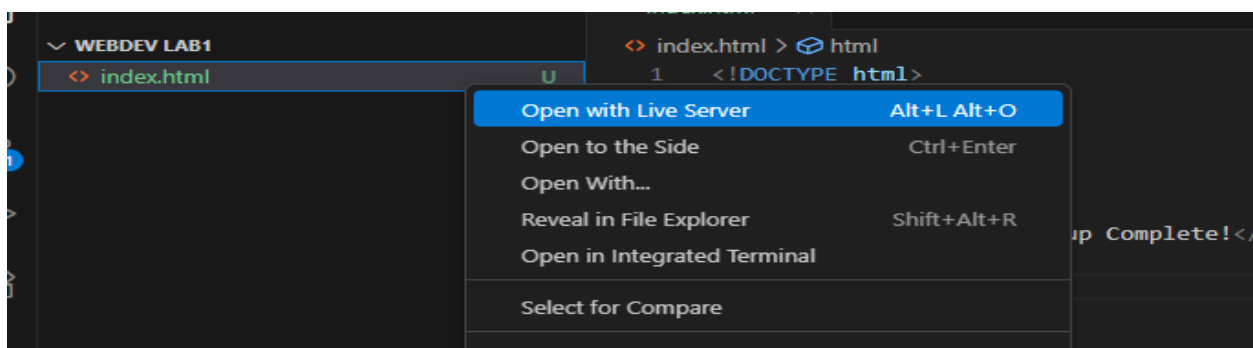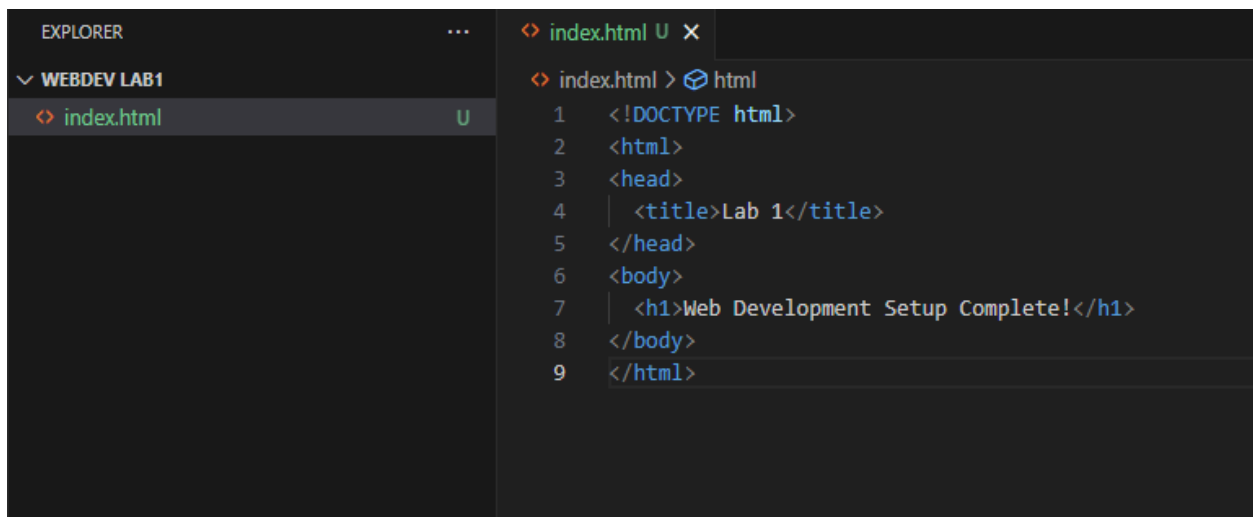
6. Created index.html file:

Added the following code:

<!DOCTYPE html>
<html>
<head><title>Lab 1</title></head>
<body><h1>Web Development Setup Complete!</h1></body>
</html>

7. **Used Live Server:**
   Right-clicked on the HTML file → "Open with Live Server" → Verified
   that it worked in the browser.

Browser View:

← ↻ ⓘ 127.0.0.1:5500/index.html

Web Development Setup Complete!