

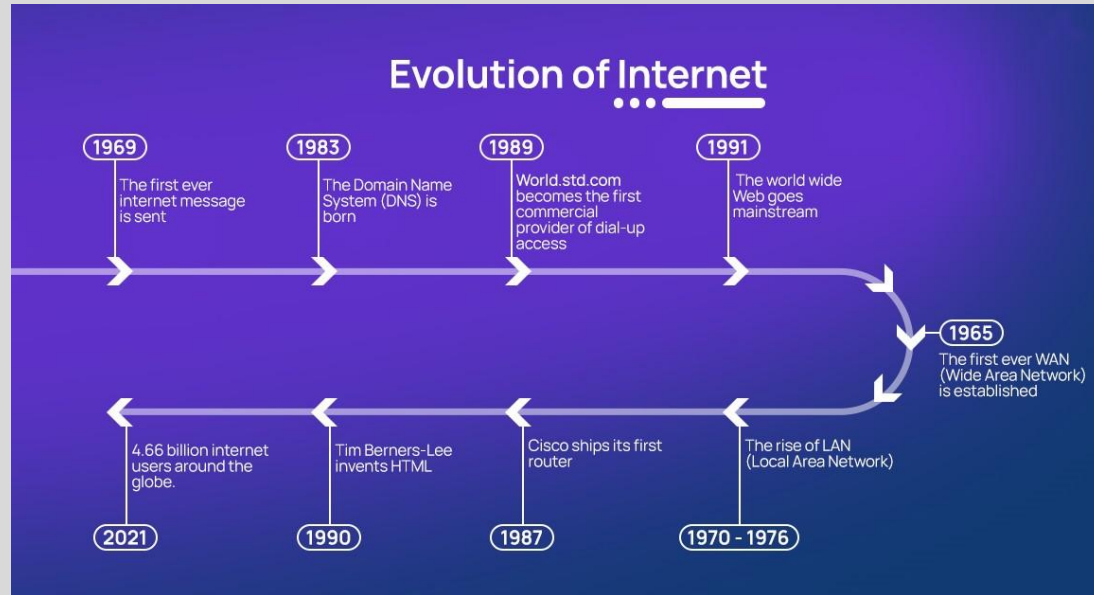


SOEN 287 Tutorial 1

Fall 2025

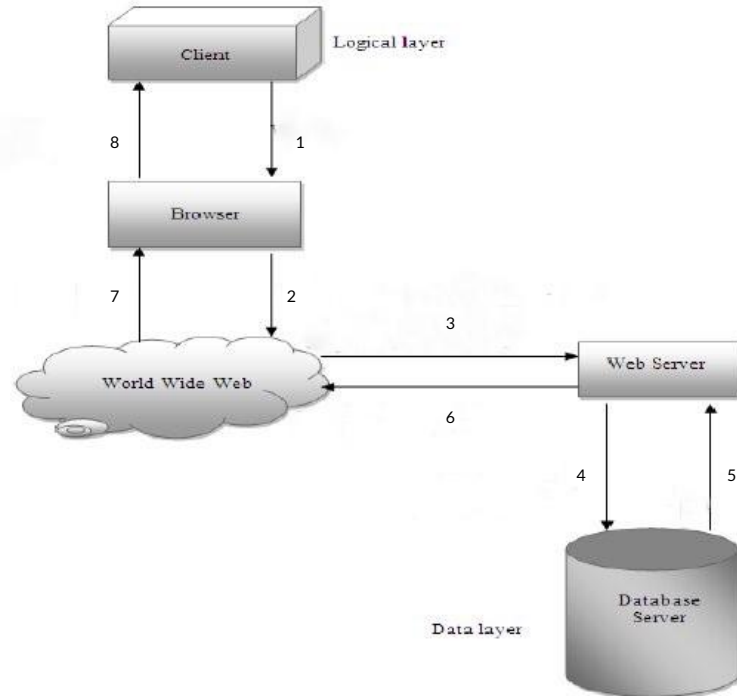
Review Questions

- Provide a short recap of what you know/remember about the evolution of Internet and its history



Review Questions

- Associate The below steps with the appropriate step number
 - A. Request Data
 - B. Request Web page with URL Address
 - C. Web URL
 - D. Response (Data)
 - E. Web content response
 - F. Response by Web server
 - G. Display of Web content
 - H. Request of Web content





Review Questions

In the given URL "<http://www.example.com:8080/page/index.html>" can you identify the following:

- Protocol: What is the protocol used in this URL?
- Source: What is the source or domain of this URL?
- Specific Information: What specific information or resource is being accessed in this URL?



Review Questions

- Associate the following definitions with the right HTTP Method

A. Used to submit data to be processed to a specified resource. It is often used for sending form data to a server. It includes the sent data in the request body, making it suitable for sending large amounts of data, such as form submissions.

B. Used to update a resource on the server or create a new resource if it does not exist.

C. Requests data from a specified resource. When you visit a website or click on a link, your browser typically sends it to fetch the web page.

D. Used to request the removal of a resource from the server. It indicates that the client wishes to delete the specified resource

E. only requests the headers of the resource, not the actual content. This is useful for checking resource metadata, such as the last modification date, without transferring the entire resource.

Some IDEs (Pros and Cons)



Visual Studio Code (VS Code)

- **Highly Extensible:** VS Code has a vast marketplace of extensions, making it customizable for various web development needs.
- **Integrated Terminal:** It includes a built-in terminal for running Node.js commands and other tasks.
- **Cross-Platform:** Available for Windows, macOS, and Linux.
- **Free and Open Source.**
- **Can Be Resource-Intensive:** In some cases, it might consume more memory, especially with a large number of extensions.
- **Configuration Complexity:** Customizing settings might require digging into configuration files.

Some IDEs (Pros and Cons)



WebStorm

- **Specialized for Web Development:** WebStorm is tailored for web development, offering extensive support for HTML, CSS, JavaScript, and Node.js.
- **Smart Code Assistance:** Provides intelligent code completion and error detection.
- **Integrated Version Control:** Seamless integration with Git.
- **Refactoring Tools:** Offers powerful code refactoring capabilities.

- **Paid Software:** It comes with a free trial, but a paid license is required for continued use.
- **Heavier on Resources:** Can be resource-intensive, especially on older machines.

Some IDEs (Pros and Cons)



Atom

- **Open Source:** Atom is free and open-source.
- **Highly Customizable:** Users can customize the interface and functionality using packages.
- **GitHub Integration:** Developed by GitHub, it integrates well with Git and GitHub.
- **Cross-Platform:** Available for Windows, macOS, and Linux.

- **Performance:** While it's improved over the years, it may not be as fast as some other editors/IDEs.
- **Resource Usage:** Can be resource-intensive with many active packages.

Some IDEs (Pros and Cons)



Notepad++

- **Lightweight:** Extremely fast and consumes minimal system resources.
- **Free and Open Source:** Notepad++ is entirely free.
- **Plugin Support:** Has a plugin architecture for extending functionality.
- **Multi-Language Support:** Supports a wide range of programming languages, including web development languages

- **Not an IDE:** Notepad++ is a text editor, so it lacks some advanced IDE features.
- **Basic Terminal:** Lacks a built-in terminal for running Node.js commands.
- **Limited Project Management:** Not as feature-rich as full-fledged IDEs for project management.



VS Code Installation

Step 1: Download and Install Visual Studio Code:

1. Visit the official VS Code website: <https://code.visualstudio.com/>
2. Download the appropriate installer for your operating system (Windows, macOS, or Linux).
3. Run the installer and follow the on-screen instructions to complete the installation.



VS Code Installation

Step 2: Install Visual Studio Code Extensions:

VS Code can be customized with extensions to enhance its functionality for web development. Here are some essential extensions to get you started:

HTML/CSS Support:

To support HTML and CSS development, you can use the "HTML CSS Support" extension by ecmel.

- Open VS Code, click on the Extensions icon in the sidebar (or use the shortcut Ctrl+Shift+X on Windows/Linux or Cmd+Shift+X on macOS).
- Search for "HTML CSS Support" in the Extensions marketplace and click the "Install" button.

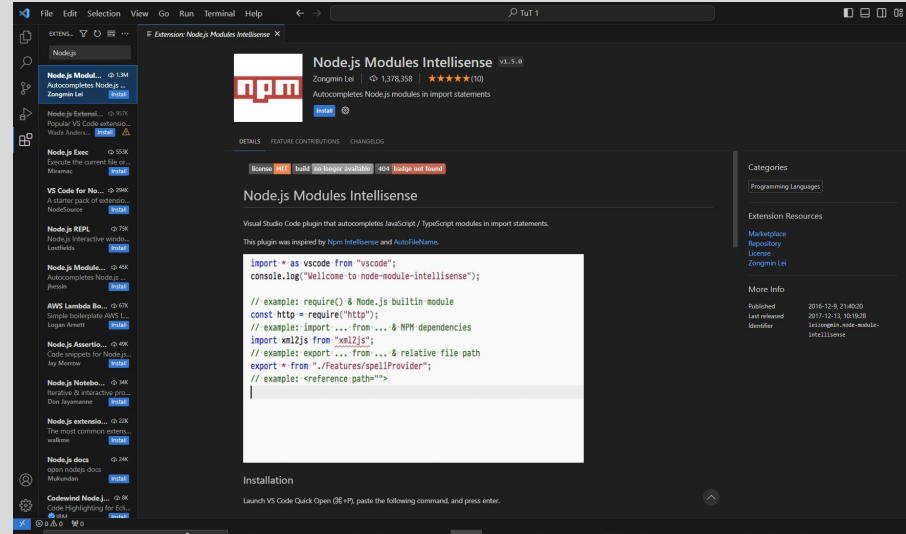
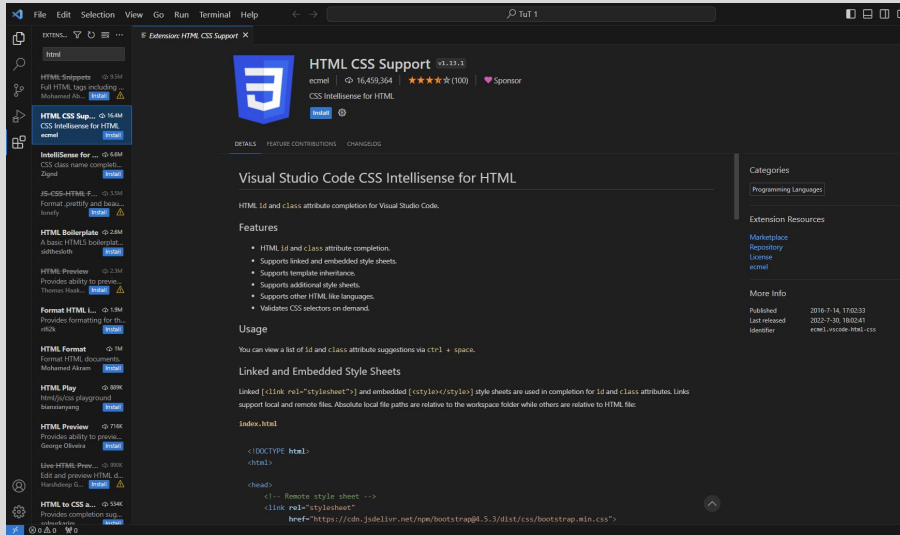
Node.js Development:

When working with Node.js, consider installing the "Node.js" extension by Microsoft.

- Search for "Node.js" in the Extensions marketplace and click "Install."

VS Code Installation

Step 2: Install Visual Studio Code Extensions:





Hello World! In HTML

Step 1: Open Your Project Folder:

1. Create a folder where you want your work to be located
2. Launch VS Code.
3. Open your project folder by selecting "File" > "Open Folder" and selecting the folder where your HTML, CSS, and Node.js files are located.

Step 2: Create or Open Files:

Inside your project folder, create or open an HTML file. You can create a new file by right-clicking on the folder and selecting "New File."

Step 3: Start Coding:

Begin writing your HTML code in the created file.

Step 4: See your results:

Go to your HTML file in your work folder, notice that your HTML file will have the icon of a navigator. Double click on it and it will be opened as a web page in your navigator

Hello World! In HTML

```

HelloWorld.html x
HelloWorld.html > html
1  <!DOCTYPE html>
2  <html >
3  <head>
4  |   <title>Hello World</title>
5  </head>
6  <body>
7  |   <h1>Hello, World!</h1>
8  |   <p>Welcome to the first tutorial of SOEN 287</p>
9  </body>
10 </html>

```

