Week 1 – Day 1 Lecture: Course Orientation & Web Fundamentals

Topic:

How the web works, client–server model, front-end vs back-end, developer tools, and first webpage demo

Mode: Lecture + Live Demo

Learning Objectives

By the end of this class, students should be able to:

• Explain what happens when you visit a website

• Describe client vs server and front-end vs back-end

• Identify what HTML, CSS, and JavaScript do

• Set up a basic dev environment

• Create and open their first HTML page

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1) Course Orientation (10–15 min)

Teacher Notes:

• Welcome students and introduce course goals

• Explain class structure: Lecture + Demo + Practice

• Explain grading and assignments if applicable

Course Roadmap:

Week 1: Web foundations + HTML

Week 2: CSS

Week 3: JavaScript

Later: Git, hosting, mini project

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2) How the Web Works (15 min)

Explain the process:

1. User types a URL

2. Browser sends a request

3. Server sends HTML/CSS/JS files

4. Browser displays the page

Key Terms:

Browser, URL, DNS, Request/Response, Server

Simple Flow:

Browser → Request → Server → Response → Browser

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3) Client vs Server (10 min)

Client: User browser

Server: Computer storing the website

Analogy:

Restaurant:

Client = Customer

Server = Waiter

Kitchen = Server

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4) Front-End vs Back-End (10 min)

Front-End:

• What users see

• HTML, CSS, JavaScript

Back-End:

• Server logic and databases

• PHP, Python, Node.js

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5) Developer Tools Setup (10 min)

Tools:

• Browser: Chrome or Firefox

• Editor: VS Code

• Folder: Create project folder

Steps:

1. Install VS Code

2. Create folder: web-class

3. Create file: index.html

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6) Live Demo: First Webpage

Create file: index.html

Paste code:

```
<!DOCTYPE html>
<html>
<head>
 <title>My First Webpage</title>
</head>
<body>
 <h1>Hello, Web!</h1>
 <p>This is my first webpage.</p>
</body>
</html>
```

Save and open in browser.

Student Exercise:

• Change heading

• Add your name

• Add second paragraph

Example:

```
<h1>Welcome to my page</h1>
<p>My name is Ali.</p>
<p>I want to learn web development.</p>
```

Wrap-Up:

• What is client?

• What does HTML do?

• What happens when typing URL?

Homework:

Create a personal HTML page with:

• Title

• Heading

• Two paragraphs

• List of hobbies

Bonus Teacher Speech:

"Today we learned how the web works and created our first HTML page. HTML is the structure of every website. Next class we will style pages with CSS."

THANK YOU