

Task 1 – Web Development Basics & Website Structure

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1. What is Web Development?

Conceptual Understanding

Web development is the process of building software systems that run on the internet. It is not only about designing pages, but about creating complete digital products that users interact with globally.

Technical Explanation

Web development follows a client–server architecture:

Browser (Client) \leftrightarrow Web Server \leftrightarrow Database

The browser sends a request:

```
GET /home
```

The server processes it and returns HTML, CSS, and JavaScript files.

Real-World Example

When a user logs into LinkedIn:

- Browser sends credentials.
- Server validates from database.
- Server sends authentication token.
- Frontend loads personalized feed.

2. Frontend vs Backend

Feature	Frontend	Backend
Runs On	Browser	Server
Role	User Interface	Data processing
Handles	UI, Layout	APIs, Database
Technologies	HTML, CSS, JavaScript	Python, Java, SQL

User → Browser → Frontend → API → Database

3. Basic Web Technologies

HTML – Structure

```
<h1>Welcome to My Website</h1>
<p>This is a paragraph.</p>
```

CSS – Design

```
h1 {
    color: blue;
}
```

JavaScript – Interactivity

```
button.onclick = function() {
    alert("Hello!");
}
```

4. Website Structure

Header	Branding and logo
Navigation	Menu links
Body	Main content
Footer	Contact and copyright

5. Practice Analysis – jasasolutions.com.pk

Section	Observed Content	Purpose
Header	Logo, menu, CTA button	Branding
Hero Section	Business tagline	Grab attention
Services	Service cards	Explain offerings
Why Choose Us	Business strengths	Build trust
Portfolio	Client projects	Show experience
Testimonials	Reviews	Social proof
Footer	Email, phone, links	Contact and legal

6. Summary

HTML + CSS + JavaScript + Backend + Database

Understanding these fundamentals is the foundation of becoming a professional full-stack developer.