

# Web Designing

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# Module-1: User Interface Design

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1. HTML5

2. CSS3

3. Javascript

# Introduction to Web Technologies

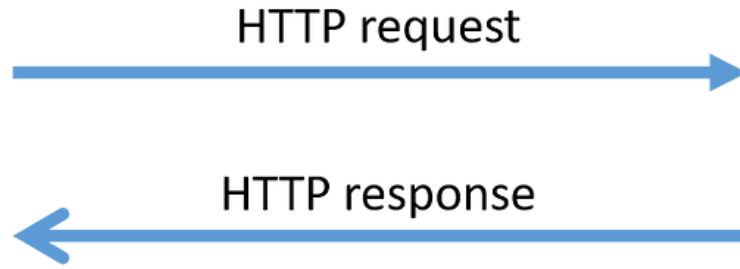
1. Client Side Technologies
2. 3rd Party Libraries / Frameworks
3. Data Exchange Technologies
4. Server Side Technologies
5. Databases

# Important Terminology

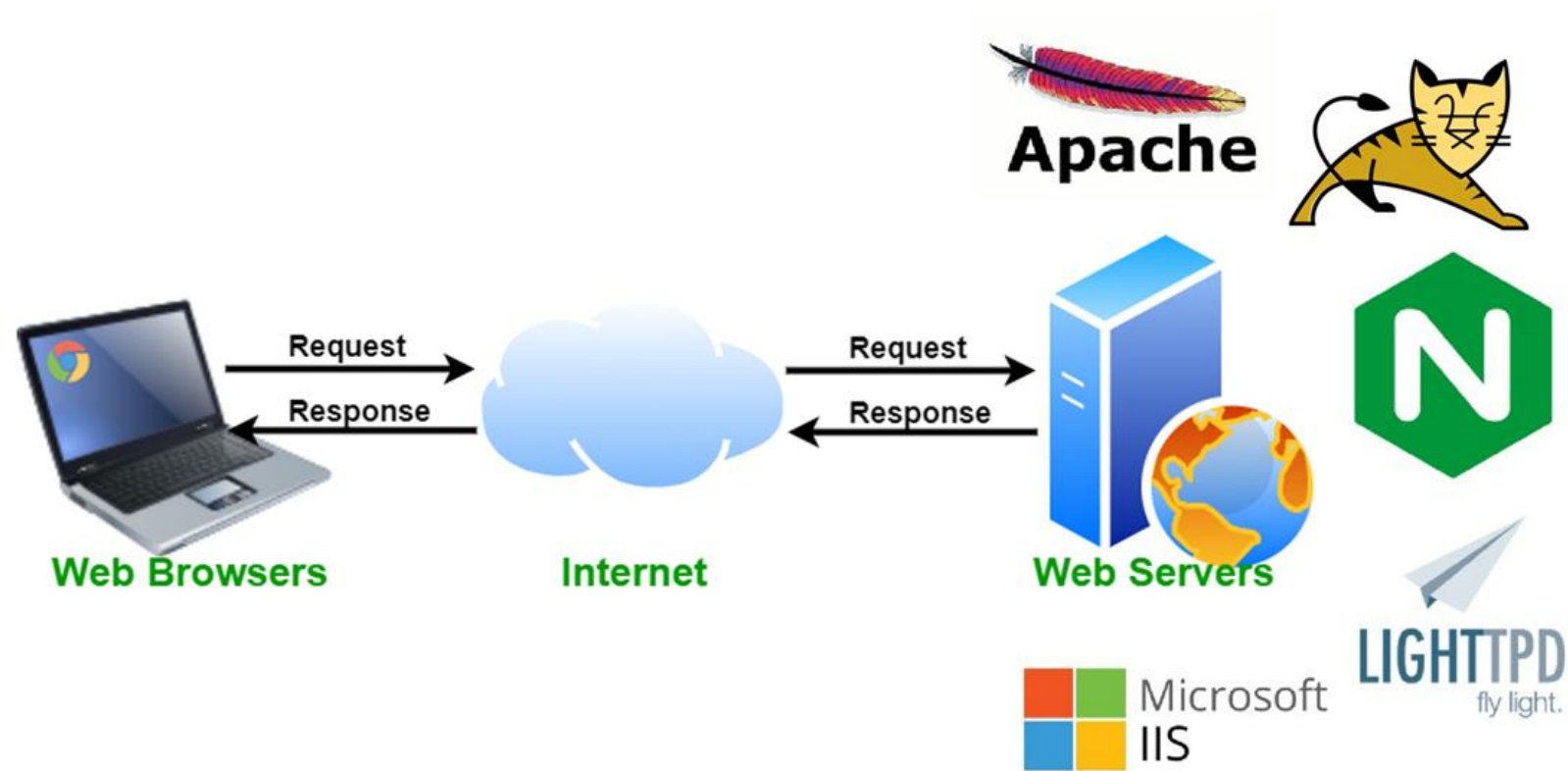
1. Web Site
2. Web Technologies
3. Web Server
4. Web Browser
5. Web Protocols
6. Web Request and Response



Client



Server



# Introduction to HTML

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# 1. HTML

## Introduction to HTML

HTML (HyperText Markup Language) is the standard language used to create web pages. It consists of various elements (tags) that define the structure of a webpage, such as headings, paragraphs, links, images, and more.

## Basic HTML Tags Used Frequently

### 1. `<!DOCTYPE html>`

- Declares the document type and version of HTML.
- Example: `<!DOCTYPE html>`

## 2. `<html>`

- The root element of an HTML document.
- Example:

```
<html>  
</html>
```

## 3. `<head>`

- Contains metadata (like title, links to CSS, and scripts).
- Example:

```
<head>  
  <title>My Web Page</title>  
</head>
```

#### 4. `<title>`

- Defines the title of the webpage (shown in the browser tab).
- Example:

```
<title>Welcome to My Website</title>
```

#### 5. `<body>`

- Contains the main content of the webpage.
- Example:

```
<body>  
  <p>Hello, World!</p>  
</body>
```

## 6. `<h1>` to `<h6>`

- Defines headings, where `<h1>` is the largest and `<h6>` is the smallest.
- Example:

```
<h1>Main Heading</h1>  
<h2>Subheading</h2>
```

## 7. `<p>`

- Defines a paragraph.
- Example:

```
<p>This is a paragraph.</p>
```

## 8. `<a>`

- Creates hyperlinks.
- Example:

```
<a href="https://www.example.com">Visit Example</a>
```

## 9. `<img>`

- Displays an image.
- Example:

```

```

## 10. `<ul>` & `<li>`

- Creates an unordered (bulleted) list.
- Example:

```
<ul>  
  <li>Item 1</li>  
  <li>Item 2</li>  
</ul>
```

## 11. `<ol>` & `<li>`

- Creates an ordered (numbered) list.
- Example:

```
<ol>  
  <li>First item</li>  
  <li>Second item</li>  
</ol>
```

## 12. `<table>` & related tags

- Defines a table with rows and columns.
- Example:

```
<table border="1">  
  <tr>  
    <th>Name</th>  
    <th>Age</th>  
  </tr>  
  <tr>  
    <td>John</td>  
    <td>25</td>  
  </tr>  
</table>
```

### 13. <div>

- A container used for structuring and styling content.
- Example:

```
<div style="background-color: lightgray;">  
  <p>This is inside a div.</p>  
</div>
```

### 14. <span>

- Used for styling inline text.
- Example:

```
<p>This is <span style="color: red;">red text</span>.</p>
```



Q&A