

Assignment-2

Stack and how it integrates			
4	You are developing a web application that involves detailed interactions between clients and servers using HTTP. Your task is to ensure that the application can handle various HTTP request and response messages correctly. Additionally, you need to understand and manage common HTTP response status codes to effectively troubleshoot and handle different scenarios. Explain the structure of an HTTP request message and an HTTP response message.	10	C01 2
5	You are tasked with creating a simple multi-page website for a small business that includes a homepage, an about page, and a contact page. The client wants the site to have a cohesive design with appealing visual elements. You need to apply various CSS styling techniques, including color schemes, typography, and layout.	10	C01 3

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④ Explain HTTP request/response structure.
Understand HTTP response status codes for
effective web application development and trouble-
shooting.

Assignment-2

HTTP Request and Response Messages:

Structure and Key Concepts:

HTTP Request Message Structures:

1. Request Line:

- Method: Defines the action.
- URI/URL: specifies the resources
- HTTP version: protocol version

2. Headers:

- provide metadata about the request
- common headers
 - * Host
 - * User-Agent
 - * Accept

3. Blank line:

- separates headers from the body.

4. Body:

- Contains data sent to the server (e.g. form data in a 'POST' requests)

HTTP Response Message Structures:

1. Status line:

- HTTP version
- Status code
- Reason phrase

2. Headers:

- provides metadata about the response.
- Common Headers:
 - * content-type
 - * content-length
 - * set-cookie

3. Blank line:

- Separates headers from the body

4. Body:

- contains the data sent to the client.

Key HTTP Response Status Code:

1. 1XX (Informational)
2. 2XX (Success)
3. 3XX (Redirection)
4. 4XX (Client Error)
5. 5XX (Server Error)

Conclusion: Understanding the structure of HTTP Request and response message, and managing HTTP status code is essential for building web applications.

⑤ Create a simple multi-page website with homepage, about, and contact pages. Apply CSS styling for appealing visual design.

Home Page (index.html)

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
</head>  
<body>  
<he
```

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</body>  
</html>
```

About

```
<!DOC
```

```
<html>
```

```
<head>
```

```
<title>Small Business</title>
<link rel="stylesheet" href="style.css">

</head>
<body>
  <header>
    <h1> Small Business </h1>
    <nav>
      <a href="index.html">Home</a>
      <a href="about.html">About</a>
      <a href="contact.html">Contact</a>
    </nav>
  </header>
  <div class="container">
    <div class="content">
      <h2> Welcome </h2>
      <p> We are committed to providing
         exceptional service and high
         quality products </p>
    </div>
    </div>
    <footer>
      <p> © 2024 Small Business. All
         rights reserved. </p>
    </footer>
  </body>
</html>
```

About Page (about.html):

```
<!DOCTYPE html>
<html>
  <head>
```

```
<html>
  <head>
    <title> Small Business </title>
    <link rel="stylesheet" href="style.css" />
  </head>
  <body>
    <header>
      <h1> Small Business </h1>
      <nav>
        <a href="index.html">Home</a>
        <a href="about.html">About</a>
        <a href="contact.html">Contact</a>
      </nav>
    </header>
    <div class="container">
      <div class="content">
        <h2> About US </h2>
        <p> Founded in 2024 </p>
      </div>
    </div>
    <footer>
      <p> © 2024 Small Business </p>
    </footer>
  </body>
</html>
```

Contact Page (contact.html)

```
<!DOCTYPE html>
<html>
  <head>
    <title> Contact </title>
    <link rel="stylesheet" href="style.css" />
  </head>
```

```
<body>
  <header>
    <h1> Small Business </h1>
    <nav>
      <a href="index.html">Home</a>
      <a href="about.html">About</a>
      <a href="contact.html">Contact</a>
    </nav>
  </header>
  <div class="container">
    <div class="content">
      <h2> About US </h2>
      <p> Founded in 2024 </p>
    </div>
  </div>
  <footer>
    <p> © 2024 Small Business </p>
  </footer>
</body>
</html>
```

Style.css

```
body {
  font-family: Arial, sans-serif;
  color: #333;
  line-height: 1.6;
}

header {
```

```
<body>
  <header>
    <h1> Small Business </h1>
    <nav>
      <a href="index.html"> Home </a>
      <a href="about.html"> About </a>
      <a href="contact.html"> Contact </a>
    </nav>
  </header>
  <div class="container">
    <div class="content">
      <h2> Contact Us </h2>
      <p> Feel free to reach us. </p>
      <p> Email: info@smallbusiness.com </p>
      <p> Phone: (123) 456-7890 </p>
    </div>
  </div>
  <footer>
    <p> © 2024 SmallBusiness </p>
  </footer>
</body>
</html>
```

Style.css:

```
body {
  font-family: 'Arial';
  color: black;
  line-height: 1.6;
}

header {
  padding: 10px;
  text-align: center;
```

h1, h2 {
 color: white;

color: black;

font-size: 24px;

margin-bottom: 10px;

p {
 margin-bottom: 15px;

footer {
 text-align: center;

margin-top: 20px;

background-color: black;

Output Webpage:



Assignment
Rubrics

Assignment 1

Question-1

Question-2

Question-3

Assignment 2

Question 4

Question 5

Question 4	Output	5	
Question 5	HTML & Structure	5	
	Output	5	
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