

CSA4317 - INTERNET PROGRAMMING

ASSIGNMENT-01

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1)

```

index.html.
<!DOCTYPE html>
<html>
<frameset rows="50"; cols="200">
<frameset="top.html">
<frame>
<frame src="left.html">
<frame src="right.html">
</frameset>
</frameset>
</html>
*top.html.
<h1>Bike showroom</h1>
<h2>
<li <a href="honda.html" target="right">honda</a></li>
<li <a href="yamaha.html" target="right">yamaha</a></li>
<li <a href="suzuki.html" target="right">suzuki</a></li>
</h2>
<ul>
<li>honda</li>
<li>yamaha</li>
<li>suzuki</li>
</ul>
<p>Model 1: CBR500R</p>
<p>model 2: CBR1000R</p>
<p>model 1: YZF-R6</p>
<p>model 2: YZF-R1</p>
<p>model 1: GSX-R600</p>
<p>model 2: GSX-R1000</p>

```

2)

```

<form>
<h2>Job Application Form</h2>
<label>firstname:<label>
<input type="text" name="firstname"><br><br>
<label>lastname:<label>
<input type="text" name="lastname"><br><br>
<label>Degree:<label>
<select name="degree">
<option value="highschool">High School<option>
<option value="bachelors">Bachelor's<option>
<option value="masters">Master's<option>
<select>&lt;br&gt;<br>
<label>Gender:<label>
<input type="radio" name="gender" value="female">Female
<input type="radio" name="gender" value="Other">Other<br><br>
<button type="submit">Submit</button>
</form>

```

3. LAMP vs WAMP

LAMP (Linux, Apache, MySQL, PHP)

→ Operating System: Linux

→ Web Server: Apache

→ Database: MySQL

→ Programming Language: PHP

WAMP (Windows, Apache, MySQL, PHP)

→ Operating System: Windows

→ Web Server: Apache

→ Database: MySQL

→ Programming Language: PHP

Apache's Role:

* Handles HTTP requests.

* Servers web pages

* Integrate with PHP and MySQL

4) HTTP Request

1. Method (GET, POST, PUT, DELETE)

2. URL

3. Headers (info about request)

4. Body (optional data)

HTTP response

1. Status Code (200 OK, 404 Not found, etc.)

2. Headers (info about response)

3. Body (optional data)

Common Status codes

200k: Ok

404: Not found

5. HTML

index.html

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<h1>home</h1>
<a href="about.html">About</a>
<a href="contact.html">contact</a>
</body>
</html>
```

css (style.css);

```
body {
    font-family: Arial;
    background-color: blue;
}
```

```
h1 {
    color: white;
}
```

6. HTML 5 features.

1. New input types.

(email, date, time)

2. form validation.

(required, pattern)

3. Semantic element.

(header, footer, nav)

```
<form>
```

```
<label>Name:</label>
```

```
<input type="text" required>
```

```
<label>Email:</label>
```

```
<input type="email" required>
<button>submit</button>
</form>
```

HTML 5 Benefits

1. Improved accessibility
2. Better form validation
3. Enhanced user experience.

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HTML :-

```

<form>
  <label> Name : <label>
  <input type = "text" required>
  <label> Email : <label>
  <input type = "email" required>
  <label> Message : <label>
  <textarea required> <textarea>
  <button> Submit </button>
</form>

```

8)

Responsive Web Design.

1. fixed Layout (fixed pixels)
2. fluid Layout (percentages)
3. Responsive layout (adapts to screen size)

CSS Techniques

1. Flexbox (flexible layouts)
2. Grid (grid-based layouts)
3. Media Queries (styles for different screen size)

Example CSS.

```
Container {
```

```
  display: flex;
```

```
  flex-wrap: wrap;
```

3

```
  @media (max-width: 760px) {
```

Styles for smaller scenarios!

3.

9. Key Principles:-

1. Flexible layouts
2. Scalable layouts, Images.
3. Media Queries

CSS Techniques:-

1. Flexbox
2. Grid.
3. Bootstrap

Breakpoints:-

1. Mobile (320px - 479px)
2. Tablet (480px - 767px)
3. Desktop (768px +)

Design consideration:-

1. Simple navigation.
2. Clear typography
3. Minimal content

* Tools:-

1. Google chrome Dev tools.
2. Mozilla Responsive Design Mode.
3. Mobile-Friendly Test tool

Web page Designs

- * Header
- * Content (text, images)
- * Footer

HTML ELEMENTS:-

- h1-h6 (headings)
- p (paragraphs)
- img (images)
- a (links)
- ul / ol (lists)

HTML response:-

1. user requests webpage (GET)
2. Server sends HTML (200 OK)
3. Browser request resources (css, Javascript, images)
4. Server sends resources (200 OK)
5. Browser displays webpage.