



Course Code /Title: CSA4399 – Internet Programming
Programme : Computer Science and Engineering

**ASSIGNMENT QUESTIONS
SET - 1**

S.No	Questions
1	You are tasked with creating a web page for a bike showroom. The showroom wants a clean and interactive design where customers can easily navigate through different bike brands and view the specific models and their specifications. The page should be divided into three frames using a frameset: a top row for displaying the showroom name, a left column for listing bike brands with hyperlinks, and a right column for showing the corresponding bike models and specifications when a brand is selected.
2	You are tasked with designing a job application form for a company's career page. The form should be user-friendly and visually appealing. The form needs to capture the applicant's personal information, including their name, highest qualified degree, and gender. Additionally, it should have a "Submit" button to send the application and a "Cancel" button to reset the form or go back to the previous page.
3	You have been assigned the task of establishing a development environment for a new web application project. The team is considering whether to utilize the LAMP stack or the WAMP stack. They need a clear understanding of the essential components of these stacks, their functions, and the installation procedures on both Linux and Windows systems. Additionally, they seek to grasp the role of the Apache web server within the stack and how it integrates with the other components.
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.
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

index.html:

<!doctype html>

<html>

<head>

<title> Bala Chinnam </title>

</head>

<frameset rows = "15%, 85%">

<frame src = "header.html" name = "headFrame"
width = 100px, height = 100px>

<frame set cols = "20%, 80%">

<frame src = "index.html" name = "indexFrame">

<frame src = "node.html" name = "nodeFrame">

</frameset>

header.html:

<!doctype html>

<html>

<head>

<title> Bala Chinnam </title>

<style>

body {

background-color: blue;

color: white;

text-align: center;

font-family: Arial;

}

</style>

</body>

</html>

node.html

<!doctype html>

<html>

<head>

<title> Bala Chinnam </title>

<style>

body {

background-color: blue;

color: white;

text-align: center;

}

</style>

</body>

</html>

<body>

{

<style>

</body>

</html>

node.html:

<!doctype html>

<html>

<head>

<title> Bala Chinnam </title>

<style>

body {

background-color: blue;

font-family: Arial;

}

</style>

</body>

</html>

node.html:

<!doctype html>

<html>

<head>

{

body {

color: blue;

}

node {

background-color: white;

```

3
</style>
</head>
<body>
  <h2>Attach Bike Specification </h2>
  <div>
    <div class="models">
      </div>
    </div>
  </body>
</html>

```

Yamaha.html:

```

<!DOCTYPE html>
<html>
  <head>
    <title> Yamaha Models </title>
    <style>
      body

```

```

3
    body {
      color: blue;
    }
  </head>
  <body>
    <h2> Specifications </h2>
    <div class="specs">
      <h3> Yamaha CBR 600RR </h3>
      <p> Engine: 600 CC </p>
      <p> Price: $15,999 </p>
    </div>
  </body>
</html>

```

Output webpage:

Welcome To New Showroom

Welcome To The Bike Showroom

Please Select a brand to view the available brands & their Models & Specifications

Bike Brands

Honda

Yamaha

2. <!DOCTYPE html>
 <html>
 <head>
 <title> Job Application </title>
 <style>
 body {
 font-family: Arial;
 background-color: white;
 display: flex;
 justify-content: center;
 align-items: center;
 height: 100px;
 margin: 0;
 }

3. Form Container {
 background-color: white;
 padding: 20px;
 width: 100%;
 }

3. for container h2 {
 text-align: center;
 color: black;
 }

3. Form Group
 margin-bottom: 15px;

3. Form Group input (type="radio") {
 margin-right: 10px;
 }

3. Form button {
 display: flex;
 justify-content: center;
 }

3. Form button (type="reset", "button")
 background-color: white;
 color: black;

</style>
 </head>
 <body>
 <div class="form-container">
 <h2> Job Application Form </h2>
 <input type="text" name="username">
 </div>
 <div class="form-group">
 <label for="degree"> Highest Degree </label>
 <option value="Bachelor Degree"> Bachelor Degree </option>
 <option value="Master Degree"> Master Degree </option>
 </select>
 </div>
 <div class="form-group">
 <label> Gender </label>
 <label> <input type="radio" name="gender" value="male" required> Male
 </label>
 <label> <input type="radio" name="gender" value="female" required> Female
 </label>
 </div>
 </div>
 </body>
 </html>

Job Application Form

Full name.

Highest Degree.

Gender.

male

female

Submit

Cancel

3 Overview of LAMP & WAMP stacks:

LAMP stack (Linux, Apache, MySQL / MariaDB, PHP)

Linux: The operating system that provides the foundation for the stack.

Apache: The web server that handles request & serves web content.

MySQL: The database management system for storing & managing data.

PHP/Perl/Python: Server-side language for generating dynamic content.

WAMP stack (Windows, Apache, MySQL / MariaDB, Python)

Windows: The operating system for stack.

Apache: Same role as in LAMP, serving web content.

① Installation steps

1. Update System Package
2. Install Apache
3. Install MySQL
4. Secure Installation
5. Install PHP
6. Restart Apache
7. Test PHP

WAMP Stack on Windows:

1. Download WAMP: WAMP Server
2. Run the installer: Follow installation steps
3. Test Apache: WAMP Server
4. Test PHP: Create test.
5. visit <http://localhost/>

Apache Role of stack

- Core web Server: Handles HTTPs request.

Component Functions

- Operating System
- Apache web Server
- MySQL
- PHP

Conclusion: choosing b/w LAMP & WAMP deped on
term OS Preference.

4) Develop a web Application that involves details
on interaction b/w client & Server using HTTP

HTTP Request & Response message:

Structure & Key Concepts

HTTP Request Message structure:

1. Request line:

Method:

URL

HTTP

2. Headers:

• Provide Metadata about request.

• Common headers:

• Host:

• Accept:

3. Blank line:

• Separator headers from body

4. Body:

• Content data sent to the server by from data in post

HTTP Response message structure

1. Status line: HTTP Version,

2. Headers: Provide Metadata about Response

3. Blank line: Separates header from body
4. Body: Contains the data sent client.

Key HTTP Response Status Code

1. 1xx (Informational)
 - 100 Continue
2. 2xx (Success)
 - 200 OK
3. 3xx (Redirection)
 - 301 Moved Permanently
4. 4xx (Client Error)
 - 400 Bad Request
 - 401 Unauthorized
 - 402 Forbidden
5. 5xx (Server Error)
 - 500 Internal Server Error

Conclusion : Understanding the structure of HTTP

Request & Response Headers & Managing

HTTP Status Code.

② Home Page (index.html)

```
<!DOCTYPE html>
<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 = "Contact.html"> Contact </a>
</nav>
</header>
<h2> welcome </h2>
<p> we are Committed to providing
Exceptional Service and high Quality Products </p>
</div>
</body>
</html>
```

About Page (about.html)

```
<!DOCTYPE html>
<html>
<head>
<title> Small Business </title>
</head>
<body>
<header>
<h1> Small business </h1>
<nav>
```

 home

 about

</h1>

</head>

</div>

</div>

</body>

</body>

</html>

Contact Page (Contact.html)

<!DOCTYPE html>

<html>

<head>

<title> Contact </title>

</head>

<div class = "Content">

<h2> Contact us </h2>

<p> feel free to reach u. </p>

<p> Phone: (123) 456-7890 </p>

style.css

body {

font-family: Arial;

color: black;

line-height: 1.6;

head {

padding: 10px;

text-align: center;

output webpage

Small business

home

About

Contact.

welcome to our Business
we are Committed to Providing
Exceptional Service & high Quality
Products

© 2021 Small Business. All Rights reserved.

Assignment Topics.	Marks Splitup	Marks Score	Totally
Assignment Q1	Form design	4	
	button design	4	
	layout looks field	2	
Q2	Form design	4	
	button design	4	
	layout looks field	2	
Q3	My Sql database	3	
	Php script	3	
	output	4	
Assignment 2 Q4.	HTML & Php Code	5	
	output	5	
Q5	HTML structure	5	
	output	5	