



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

ASSIGNMENT QUESTIONS
SET - 1

S.N o	Questions	Marks	CO	BTL
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.	10	CO1	3
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.	10	CO1	3
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.	10	CO1	2
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	CO1	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	CO1	

- 1) You are tasked with creating a web page for a bike showroom. The showroom wants a clean and interactive design when customers can easily navigate through different brands and view specific models and their specifications a left column for showing the corresponding bike models and specification when a brand is selected

index.html:-

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Bike Showroom </title>
```

```
</head>
```

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

```
<frame src = "header.html" name = "header frame" noresize scrolling = "no">
```

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

```
<frame src = "models.html" name = "model" frame
```

```
</frame set>
```

```
</frameset>
```

```
</html>
```

header.html:-

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Bike Showroom </title>
```

```
<style>
```

```
body{
```

```
background colour : Blue;
```

```
colour : white;
```

```
font-family: Arial;
```

```
}
```

```
}  
</body>
```

```
</html>
```

```
</html>
```

brands.html:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Bike Brands </title>
```

```
<style>
```

```
body {
```

```
font-family: Arial
```

```
color: green;
```

```
padding: 10px;
```

```
}
```

```
</body>
```

```
<h2> Bike Brands </h2>
```

```
<a href = "models.html" target = "model Frame">
```

```
Models </a>
```

```
</body>
```

```
</html>
```

models.html:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title> Bike Models </title>
```

```
<style>
```

```
body {
```

```
background-color: pink;
```

```
font-family: Arial;
```

```
padding: 10px;
```

```
}
```

```
</body>
```

```
</html>
```

honda.html:

```
<!DOCTYPE html>
<html>
<head>
  <title> Honda Models </title>
  <style>
    body {
      h2 {
        colour: blue;
      }
      .models {
        background colour: white;
        padding: 10px;
        margin: 40px 20px;
      }
    }
  </style>
</head>
<body>
  <div>
    <div class="models">
      <h3> Honda CB500F </h3>
      <p> engine: 471CC </p>
      <p> Price: $15,999 </p>
    </div>
  </div>
</body>
</html>
```

Yamaha.html:-

```
<!DOCTYPE html>
<html>
<head>
  <title> Yamaha Models </title>
  <style>
    body {
      font family: Arial;
      padding: 10px;
    }
  </style>
</head>
```


h2{

color: blue;

3

speed{

<h2> specifications </h2>

<div class="specs">

<h3> Yamaha 0BR 600R </h3>

<p> Price: \$15,999 </p>

</div>

</body>

</html>

welcome to Reva Showroom

Bike Brands

Welcome to Bike Showroom

Honda

Yamaha

Please select a brand to view the available brand and their models and specifications.

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 applicant's personal information including their name, highest qualified degree and gender.

```
<doctype html>
<html>
```

```
<head>
```

```
<title> Job Application </title>
```

```
<style>
```

```
body {
```

```
font-family: Arial;
```

```
display: flex;
```

```
align-items: center;
```

```
height: 100vh;
```

```
margin: 0;
```

```
}
.form-container {
```

```
text-align: center
```

```
color: black
```

```
}
```

```
• form-group {
```

```
margin-bottom: 10px;
```

```
}
```

```
• form-group label {
```

```
display: block;
```

```
color: black;
```

```
}
```

```
• form-group input [type="radio"] {
```

```
margin-right: 10px;
```

```
}
```

```
• form-buttons {
```

```
display: flex;
```

```
justify-content: center;
```

```
}
```

} .form group input [type="radio"] {
margin: 0px 10px;

} .form group select {
width: 100%;
padding: 10px;
border: 1px solid white;
border-radius: 15px;

}
.form button {
display: flex;
justify-content: center;
.form-button button [type="submit"] {
background-color: green;
color: white;

</style>

</head>

<body>

</select>

</div>

<div class="form group">

<label> Gender </label>

<label> <input type="radio" name="gender"

</label>

</div>

<div class="form button">

<button type = "submit" >

<button type = "reset" > can

</div>

</form>

</div>

</html>

Job Application Form

Full Name

Highest Degree

Gender

male
female

Submit

Cancel

- 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. Additionally, they seek to grasp the role of the Apache web server within the stack and how it integrates with other components.

Overview of LAMP and WAMP stacks:

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

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

Apache: The web server that handles requests and serves web content.

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

WAP stack (Windows, Apache, MySQL):

Windows: The O.S. for the stack.

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

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:

- 1) Download WAMP: WAMP server
- 2) Test Apache: start WAMP server
- 3) Test PHP: Create test PHP in the file
- 5) `http://localhost/test.php`

Component Functions:-

* Operating System (Linux/Windows)

* Apache web server

* MySQL/MariaDB DB

* PHP/Perl/Python

Assignment - 2

- 4) Develop a web application that involves details interaction b/w element & server using HTTP.

HTTP Request & Response message

1) Request Line:-

- Method: Define the action.
- URI/URL: specifies the resource
- HTTP version: Protocol version.

2) Headers:-

- Provide metadata about the request
- Common headers
 - * Host
 - * User-Agent
 - * Accept

3) Body

- separates headers from body

4) Body

- contains data sent to the server leg from data a post request.

1. 1XX (Informational)

- 100 continue

2) 2XX (Success)

- 200 OK
- 201 created

3) 3XX (Redirection)

- 301 moved permanently
- 302 found

Conclusion:-

Understanding structure of HTTP Request and Response message & managing HTTP status code is essential for building web Application.

5) Create a simple multipage website for a small business

<!DOCTYPE html>

<html>

<head>

<title> small business </title>

</head>

<body>

<header>

<h1> Small Business </h1>

<nav>

 Home

 About

 Contact

</header>

<div class = "container">

<h2> welcome </h2>

<p> We are committed to providing exceptional

</div>

<div>

<footer>

</body>

</html>

About Page: (about.html)

<!DOCTYPE html>

<html>

<head>

<title> small Business </title>

</head>

<body>

<header>

<h1> small Business </h1>

<nav>

</nav>

</header>

<div class = "container">

<div class = "content">

<h2> About us </h2>


```
<div>  
</div>  
<footer>  
</html>
```

Small Business

Home

About

Contact

Welcome to our Business

We are committed to providing
exception service and high quality products

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