



Green University of Bangladesh



Department of Computer Science and Engineering (CSE)

Faculty of Sciences and Engineering Semester:

(Fall, Year:2025), B.Sc. in CSE (Day)

Lab Report NO # 03

Course Title: Database Lab

Course Code: CSE 302 Section: 232_D1

Lab Experiment Name: Create a Photo Gallery using HTML and CSS

Student Details:

Name	ID
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Lab Date : 25 .10. 2025

Submission Date : 30.10. 2025

Course Teacher's Name : Tanpia Tasnim

[For Teachers use only: Don't Write Anything inside this box]

Lab Report Status

Marks:

Comments:.....

Signature:.....

Date:.....

1. TITLE OF THE LAB EXPERIMENT

Design and develop a **Photo Gallery** web page displaying faculty profiles of the Green University of Bangladesh using **HTML** and **CSS layout techniques**.

2. OBJECTIVES / AIM

- To create a web-based photo gallery using HTML and CSS.
- To practice using the **CSS Grid layout** for organizing images.
- To make a responsive design that adjusts based on screen size.
- To display faculty information with images, names, and designations.

3. INTRODUCTION

This experiment demonstrates how to use **HTML and CSS** to design a responsive **photo gallery**.

The web page shows faculty members from the Department of CSE at Green University of Bangladesh.

A total of **10 faculty images** are displayed, arranged **five per row** using the **CSS Grid layout**. Each faculty profile includes an image, name, and designation, all linked to the university's official faculty webpage.

4. PROCEDURE / ANALYSIS / DESIGN

Step-by-Step Process:

1. Created a new HTML file named faculty-gallery.html.
2. Added structural elements like <header>, <div class="gallery">, and <footer>.
3. Used <div class="faculty"> for each faculty member to include an image, name, and designation.
4. Linked an external CSS file (styles.css) for styling and layout control.
5. Applied **CSS Grid** to display five faculty images per row.
6. Added responsive design rules using **media queries** to ensure compatibility on smaller devices.

Page Layout Structure:

HTML Structure:

<header> (title and university name)

<div class="gallery">

└─ <div class="faculty"> (Image + Name + Designation)

<footer> (copyright)

Design Flow (CSS):

- display: grid; used for gallery layout
- grid-template-columns: repeat(5, 1fr); for 5-column structure
- @media queries used for responsiveness

5. IMPLEMENTATION

HTML Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>GUB CSE Faculty Gallery</title>

  <link rel="stylesheet" href="styles.css">

</head>

<body>

  <header>

    <h1>Department of CSE – Faculty Gallery</h1>

    <h2>Green University of Bangladesh</h2>

  </header>

  <div class="gallery">

    <div class="faculty">
```

[](https://www.green.edu.bd/faculty-member/dept-of-cse)

[!\[\]\(21199eb166cc97331a0c54c649195dcc_img.jpg\)](https://www.green.edu.bd/faculty-member/dept-of-cse)

alt="Prof. Dr. Md. Mohammad Shorif Uddin">

<h3>Prof. Dr. Md. Mohammad Shorif Uddin</h3>

<p>Professor & Vice-Chancellor</p>

</div>

<div class="faculty">

[](https://www.green.edu.bd/faculty-member/dept-of-cse)

[!\[\]\(aa53ad6fea213b8b2226d3077e30533a_img.jpg\)](https://www.green.edu.bd/faculty-member/dept-of-cse)

alt="Prof. Dr. Md. Saiful Azad">

<h3>Prof. Dr. Md. Saiful Azad</h3>

<p>Professor & Dean</p>

</div>

<div class="faculty">

[](https://www.green.edu.bd/faculty-member/dept-of-cse)

[!\[\]\(c1168d6a8b365d11e842ece304635fa7_img.jpg\)](https://www.green.edu.bd/faculty-member/dept-of-cse)

alt="Professor Dr. Md. Ahsan Habib">

<h3>Professor Dr. Md. Ahsan Habib</h3>

<p>Professor & Chairperson</p>

</div>

<div class="faculty">

<h3>Syed Ahsanul Kabir</h3>

<p>Associate Professor (Adjunct)</p>

</div>

<div class="faculty">

<h3>Dr. Faiz Al Faisal</h3>

<p>Associate Professor & Director of GCITS</p>

</div>

<div class="faculty">

<h3>Umme Ruman</h3>

<p>Assistant Professor</p>

</div>

<div class="faculty">

<h3>Shamima Akter</h3>

<p>Assistant Professor</p>

</div>

```
<div class="faculty">
```

```
  <a href="https://www.green.edu.bd/faculty-member/dept-of-cse" target="_blank">
```

```
    
```

```
  </a>
```

```
  <h3>Md. Monirul Islam</h3>
```

```
  <p>Assistant Professor</p>
```

```
</div>
```

```
<div class="faculty">
```

```
  <a href="https://www.green.edu.bd/faculty-member/dept-of-cse" target="_blank">
```

```
    
```

```
  </a>
```

```
  <h3>Tanpia Tasnim</h3>
```

```
  <p>Lecturer & PC(E)</p>
```

```
</div>
```

```
<div class="faculty">
```

```
  <a href="https://www.green.edu.bd/faculty-member/dept-of-cse" target="_blank">
```

```
    

    </a>

    <h3>Montaser Abdul Quader</h3>

    <p>Lecturer</p>

</div>

</div>

<footer>

    <p>© 2025 Green University of Bangladesh | Department of CSE</p>

</footer>

</body>

</html>
```

CSS Code:

```
body {

    font-family: Arial, sans-serif;

    margin: 0;

    padding: 0;

    background-color: #f7f9fb;

    color: #333;

}

header {

    text-align: center;
```



```
background-color: #006633;
```

```
color: white;
```

```
padding: 30px 10px;
```

```
}
```

```
header h1 {
```

```
margin: 0;
```

```
font-size: 2rem;
```

```
}
```

```
header h2 {
```

```
margin-top: 5px;
```

```
font-weight: 400;
```

```
font-size: 1.2rem;
```

```
}
```

```
.gallery {
```

```
display: grid;
```

```
grid-template-columns: repeat(5, 1fr);
```

```
gap: 20px;
```

```
padding: 40px;
```

```
justify-items: center;
```

```
}
```

```
.faculty {  
  background-color: #fff;  
  border-radius: 8px;  
  box-shadow: 0 4px 8px rgba(0,0,0,0.1);  
  text-align: center;  
  padding: 15px;  
  transition: transform 0.3s ease;  
  width: 100%;  
  max-width: 220px;  
  min-height: 320px;  
  display: flex;  
  flex-direction: column;  
}
```

```
.faculty:hover {  
  transform: scale(1.05);  
}
```

```
.faculty img {  
  width: 100%;  
  height: 200px;  
  object-fit: cover;
```

```
border-radius: 8px;

flex-shrink: 0;
}

.faculty h3 {
margin: 15px 0 5px;

color: #006633;

font-size: 1rem;

min-height: 2.5em;
}

.faculty p {
margin: 5px 0 0;

font-size: 0.9rem;

color: #555;

flex-grow: 1;
}

footer {
text-align: center;

background-color: #004d26;

color: white;

padding: 15px;
```

```
margin-top: 40px;

font-size: 0.9rem;
}

/* Responsive design for smaller screens */

@media (max-width: 1000px) {

  .gallery {

    grid-template-columns: repeat(3, 1fr);

  }

}

@media (max-width: 600px) {

  .gallery {

    grid-template-columns: repeat(2, 1fr);

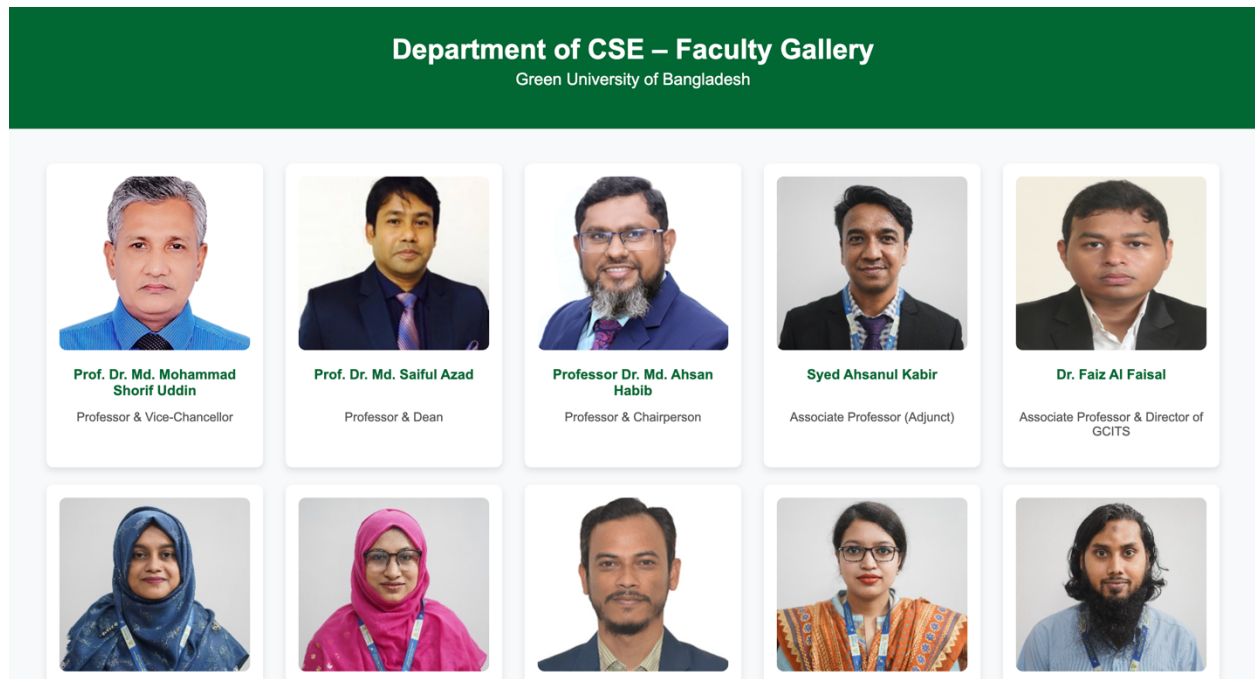
  }

}
```

6. TEST RESULT / OUTPUT

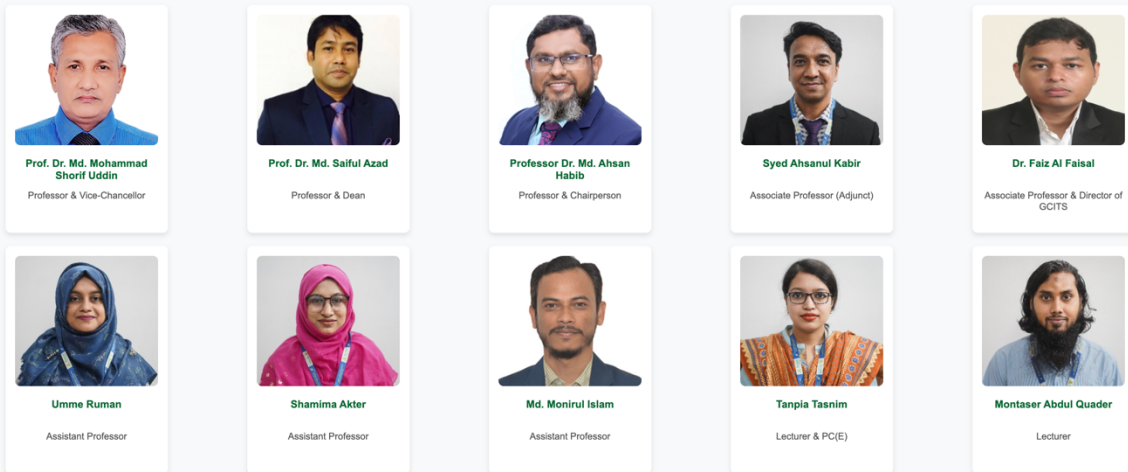
Expected Output:

1. The webpage displays **10 faculty members** in a **grid layout**.
2. On desktop: **5 images per row**.
3. On tablet: **3 images per row**.
4. On mobile: **2 images per row**.
5. Each image shows a name and designation below it.
6. Hovering on a faculty card slightly enlarges it (scale effect).
7. All links open in a new tab.
8. The layout is responsive and visually clean.



Department of CSE – Faculty Gallery

Green University of Bangladesh



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7. ANALYSIS AND DISCUSSION

- ❖ **What went well:** The grid layout worked smoothly, and responsiveness was achieved through media queries.
- ❖ **Challenges faced:** Maintaining equal image size and spacing across devices.
- ❖ **Learning outcome:**
 - Learned to use CSS Grid effectively.
 - Understood how to apply responsive web design principles.
 - Gained experience linking real data and designing clean layouts.
- ❖ **Achievement:** The gallery design met all task requirements.

8. SUMMARY

In this experiment, a **Photo Gallery webpage** was successfully developed using HTML and CSS to showcase the **CSE faculty of Green University of Bangladesh**. The project demonstrated layout structuring using **CSS Grid**, responsive design techniques, and hover animations for an engaging user interface.