



## Assignment

**Course Title:** Website Development Essentials

**Course Code:** CIS123

**Topic Name:** Sultan's Dine a catering Services

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## Introduction

Sultan's Dine a small catering business aiming to expand its customer base. Sultan's Dine, established in 2018 and located in the heart of the city.

A dining service called Sultan's Dine is committed to offering top-notch cuisine for both private and business gatherings. The project's goal is to create a professional, user-friendly, and responsive website for Sultan's Dine that offers prospective consumers simple access to crucial information, a visually attractive layout, and seamless navigation. The website showcases Sultan's Dine's offerings, including contact data, menu information and customer reviews. The website's straightforward yet efficient design ensures that users can easily locate the information they want.

## Part-A

Task-A

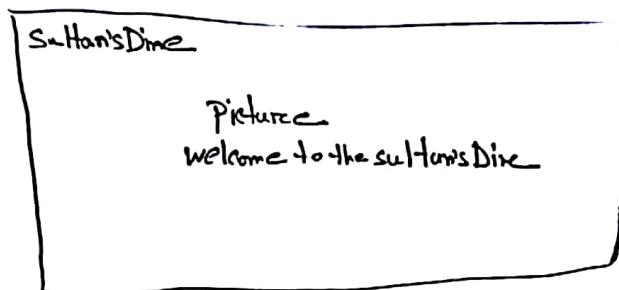
1. Layout.

Sultan's Dine

Home Menu Gallery Review Contact.

1st page is introduction page One of picture in the background and something writing about the "Sultan's Dine"

It looks like



Sultan's Dine made by css and html. There are a page by out. where is set a navbar we can access it in whole website.

First of create a Navbar Component. Then Navigation means after click its move to another page. There are few page about us, menu, Review, Gallery, contact us.

implement css and html built-in routing using css and html

import links

<

(2)

## User-friendly Accessibility.

- ④ Use semantic HTML tags (`<header>`, `<nav>`,  
`<section>`, `<div>` `<footer>`)
- ④ Ensure keyboard click navigation and set  
at the top.
- ④ User-friendly responsive - for mobile  
version.

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Task-A-Q:2

In this project we use CSS for design and responsive. To ensure Sultan's Dine website fits within standard desktop screen resolution (typically 1990x1080, 1366x786)

The term Responsive web Design was given by "Ethan Marcotte". It facilitates you to use fluid grids, flexible images, and media queries to progressively enhance a webpage for different viewing contexts.

There are few steps:

① Use Responsive containers:

```
<div className="Container mx-auto px-9">
</div>
```

② Set a Maximum width:

```
<div className="max-w-7x1 mx-auto">
</div>
```

③ Use flexbox and Grid for layouts:

```
<div className="grid grid-cols-3 gap-6">
  <div> Sidebar </div>
  <div> Main context </div>
  <div>
```

1) Insure Image and Text fit within viewport.

Setting Size - `image-type = "image"`

`<div> className = "Overflow-hidden" style = "object-fit: cover;">`

`@media screen and (max-width: 480px)`

`<div> className = "Overflow-hidden">`

`</div>`

Task A - Q3

(5)

```
<!DOCTYPE html>
<html>
    <head>
        <title>Restaurant Reservation System</title>
        <meta name="viewport" content="width=device-width, initial-scale=1.0"/>
        <link href="https://www.w3schools.com/html/html_responsive.asp" rel="stylesheet"/>
        <script src="https://www.w3schools.com/html/html_responsive.js" type="text/javascript"></script>
        <style>
            body {
                font-family: Arial, sans-serif;
                margin: 0;
                padding: 0;
            }
            .header {
                background-color: #f1f1f1;
                padding: 10px;
                text-align: center;
            }
            .header h1 {
                margin: 0;
                font-size: 1.2em;
            }
            .header p {
                margin: 0;
                font-size: 0.9em;
            }
            .form {
                border: 1px solid #ccc;
                padding: 20px;
                width: 300px;
                margin: auto;
            }
            .form label {
                display: inline-block;
                width: 100px;
                margin-bottom: 5px;
            }
            .form input {
                width: 100px;
                height: 30px;
                border: 1px solid #ccc;
                padding: 5px;
            }
            .form button {
                width: 100px;
                height: 30px;
                border: 1px solid #ccc;
                background-color: #f1f1f1;
                color: #333;
                border-radius: 5px;
                font-size: 0.9em;
                cursor: pointer;
            }
            .form button:hover {
                background-color: #e0e0e0;
            }
        </style>
    </head>
    <body>
        <div class="header">
            <h1>Restaurant Reservation System</h1>
            <p>Book your table at Sultans Dine today!</p>
        </div>
        <div class="form">
            <label for="name">Full Name:</label>
            <input type="text" id="name" name="name" />
            <br/>
            <label for="email">Email Address:</label>
            <input type="email" id="email" name="email" />
            <br/>
            <label for="data">Reservation Date:</label>
            <input type="date" id="data" name="data" />
            <br/>
            <label for="guests">Number of Guests:</label>
            <input type="number" id="guests" name="guests" />
        </div>
    </body>
</html>
```

5

(6)

```
<label for="Occasion">Special Occasion (optional): </label>
<select id="Occasion" name="Occasion">
    <option value="none">none</option>
    <option value="birthday">Birthday</option>
    <option value="anniversary">Anniversary</option>
    <option value="other">Other</option>
</select>
<fieldset>
    <legend>Preferred seating:</legend>
    <label><input type="radio" name="seating" value="indoor"> Indoor</label>
    <label><input type="radio" name="seating" value="outdoor"> Outdoor</label>
</fieldset>
<label for="message">Additional comments:</label>
<textare id="message" name="message" rows="4" placeholder="Tell us more about your">
<button type="submit">Submit Reservation </button>
</form>
</body>
</html>
```

Task-B-Q:A

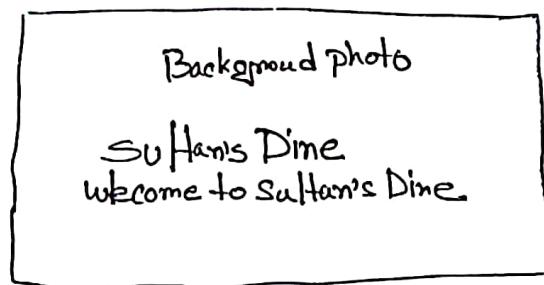
The website "Sultan's Dine" Features a straightforward navigation structure:

1. Home - Main landing page this page have ~~to~~ about "Sultan's Dine" and other thing.
2. Menu - Display about food option.
3. Gallery - ~~Poto~~ Photos Showcasing.
4. Review - Customer Feedback
5. Contact - Our location and Request a Quote.

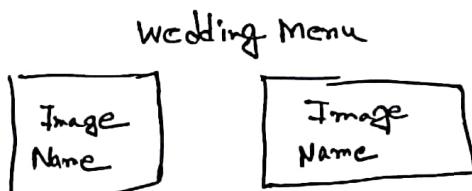
Sultan's Dine

HOME Menu Gallery Review Contact

Home page



After Clicking Menu page:



After Clicking Gallery page:



Task-B-2

To ensure a website functions and appears consistently across different browsers, I will test it on Google ~~Chrom~~ Chrome and Mozilla Firefox. I choose those two browsers because Google Chrome (widely used, good support for modern web technologies) and other one is Mozilla Firefox (Strong focus on web standards, different rendering engine).

## \*\* Cross-Browser Testing Report

## 1. Testing Environment

- Website Name : Sultan's Dine
- Browser Tested :
  - ⇒ Browser 1 : Google Chrome
  - ⇒ Browser 2 : Mozilla Firefox
- Device Used : Laptop windows 11 .

## ② Observations &amp; Findings

<u>Feature</u>	<u>Chrome</u>	<u>Firefox</u>
Layout & Styling	Proper alignment, fonts & images load fine	Footer misaligned, spacing issues
CSS Rendering	Consistent fonts & colours	Minor padding problem

⑨

Javascript	All features work	Form validation not triggering
Navigation	Hover effects smooth	Hover effects delayed
Responsiveness	Adapts well to screens	Content shifts on mobile
Performance	Loads in ~2s	Slightly slower (~3s)

### Analysis of Finding

- Layout & Styling: Firefox had minor footer spacing issues and padding.
  - Javascript: Form validation worked in chrome but failed in Firefox, likely due to event handling differences.
  - Navigation: Both supported hover effects, but Firefox had a slight delay.
  - Responsiveness: Both adapted well, but Firefox had unexpected content shifts on mobile.
- o —

### Part-B-c

Validate website in validators and reports:

1. Addressing common validation issues in CSS and HTML
  - \* Use multiple <!DOCTYPE html> and <html> tags
  - \* Use multiple time uses of same ale-text.
2. Client and server-side validation in forms:
  - \* Client-side: Utilize HTML attributes like required for basic validation
  - \* Server Side: It's make slow full website
3. Animation loading:
  - \* Use third party package in the client side. As a result its time to need for rendering. Now animation can make more faster.
4. ☺ Missing all attributes and invalid self closing tags.

## Part-B (css)

Yes I develop an external css file to create web page more beautiful and efficiency and other thing.

First we know that is CSS (Cascading Style Sheets) is a style sheet language used to control the presentation and layout of HTML documents. It allows developers to apply styles, such as colors, fonts, spacing, and positioning, to elements on a webpage.

### Key features of CSS

① Separation of Content and Design.

② Consistency.

③ Responsiveness.

④ Efficiency.

I created a CSS style file for my webpage. This filename is "gallery.css". That thing use to design gallery webpage. Use Internal CSS and External CSS.

### Syntax looks like:-

```
/* General Reset */
```

```
* {
```

```
    margin: 0;  
    padding: 0;  
    box-sizing: border-box;
```

font-family: Arial, sans-serif;

}

/\* Body styling \*/

body {

background-color: #bd9514;

text-align: center;

}

header {

background: #d35400;

color: white;

padding: 20px;

}

#gallery {

display: grid;

grid-template-columns: repeat(auto-fit, minmax(250px, 1fr)),  
gap: 30px;

padding: 20px;

max-width: 1000px;

margin: auto;

}

.gallery-item {

overflow: hidden;

border-radius: 8px;

box-shadow: 0 0 10px -5px;

transition: transform 0.3s;

}

```

.gallery-item img {
    width: 100%;
    height: 200px;
    object-fit: cover;
    border-radius: 8px;
    cursor: pointer;
}

.lightbox {
    position: fixed;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
    background: rgba(0, 0, 0, 0.8);
    display: none;
    justify-content: center;
    align-items: center;
}

```

```

.footer {
    background: - - - ;
    color: white;
    padding: 15px;
    margin-top: 20px;
}
```

3

Here's the detailed explanation of the CSS properties used, including their purpose and impact on the websites.

### ④ General Reset (\*)

- ⇒ Eliminates unwanted margins and padding.
- ⇒ Uses (box-sizing: border-box) to ensure padding and borders are included in element dimensions.
- ⇒ Sets font-family: - - - as the default font for a clean, and modern look.

### ⑤ Body Style (body {})

- ⇒ The ~~background~~ background color creates a warm, nice look.
- ⇒ text-align: center; centers all text elements inside the body

### ⑥ Header ({})

- ⇒ background: to look nice and beautiful.
- ⇒ Color: make text stand out.
- ⇒ Padding: adds spacing around the header content for better readability.

### ⑦ Gallery Section (# gallery {})

- ⇒ display: grid; arranges images in a structured grid format
- ⇒ gap: Space out image
- ⇒ max-width: prevents images from spreading too wide.

To create  
a proper user-friendly website



### ⑧ Image styling (.gallery-item img{})

- width & height: ensure uniform image sizing.
- object-fit: prevents image distortion while maintaining aspect ratio.
- border-radius: matches the gallery item styling.
- cursor: changes the cursor to indicate clickability.

### ⑨ Linking the css file

Syntax is ⇒ <link rel="gallery.css" href="gallery.css">

### Part-C → Critical Evaluation

Sultan's Dine is a restaurant website made by CSS & HTML. In this website user can take all information, update easily. There are few page like Home, About, gallery, menu, review. Its kind of landing page where user just watch but can't order. There are few improvements and features we add after deployment.

\* Order process: User can order their favorite food easily. And user can watch his order history.

\* Online payment— We have plan online payment system like bikash and other things.

\* User profile: Add authentication function like Signin, login. User can save his record here.

By adding these feature, Sultan's Dine can enhance its online presence and engagement. And we can build a proper user-friendly website.

Part-c

In this whole project made by html and css, but this time use Javascript to make a hero section button that thing scroll to top button. First of discuss the Javascript behaviors in this website.

First create the app.js file to write the code for the project then it links the javascript file in each HTML page

In Navbar there are use <Link> tag and its come from nextjs. Its actually helps navigation one page to another page.

<Link href="gallery"> Gallery </Link>

Then use Super Slider for banner hero section Sliding image. Use of those thing there is the Java Script for Hero section slider

```
document.addEventListener("DOMContentLoaded", function () {
    let slideIndex = 0;
    const slides = document.querySelectorAll(".hero-slide");
    .. .
```

```
const totalSlides = slides.length;  
function show(index){  
    slides.forEach(slide => slide.style.display = "none");  
    slides[index].style.display = "block";  
}  
function nextSlide(){  
    slideIndex = (slideIndex + 1) % totalSlides;  
    ShowSlide(slideIndex);  
}  
ShowSlide(slideIndex);  
setInterval(nextSlide, 3000); // changes slide every  
3s})
```

Then about scroll to top button. In this project add a button. This button actually help us to navigate bottom to top just in one second.

JavaScript for Scroll-to-Top Button.

```
const scrollToTopButton = document.createElement("button")  
scrollToTopButton.innerHTML = "↑";  
scrollToTopButton.id = "scrollTopBtn";  
scrollToTopButton.style.cssText =  
    "position: fixed;  
    bottom: 20px;
```

```
right: 20px;  
display: none;  
background-color: #FF6600;  
color: white;  
border: none;  
border-radius: 50%;  
width: 50px;  
height: 50px;  
font-size: 20px;  
cursor: pointer;  
z-index: 1000;  
  
document.body.appendChild(scrollToTopButton)  
window.onscroll = function() {  
    if (document.documentElement.scrollTop > 200) {  
        scrollToTopButton.style.display = "block";  
    } else {  
        scrollToTopButton.style.display = "none";  
    }  
}  
  
scrollToTopButton.onclick = function() {  
    window.scrollTo({top: 0, behavior: "smooth"});  
}
```

## Conclusion

The project has been an enriching experience in web development, successfully combining HTML, CSS, and JavaScript to create a functional and visually appealing website for Sultan's Dine. Each section is thoughtfully designed to ensure responsiveness and user engagement. By using external CSS and JavaScript files, the code remains organized and easy to maintain for future enhancements.

## Future Development

- Online payment system.
- Customer account portal for event management
- Blog section with recipes
- Live chat support for instant inquiries

## References

- ① W3Schools:- Web development tutorials and Examples