

# Sultan's Dine Website project :-

## Introduction

Sultan's Dine is a catering service dedicated to providing high-quality food for private and corporate events. The project aims to develop a professional user-friendly and responsive website for Sultan's Dine, ensuring smooth navigation, an appealing design, and easy access to essential information for potential customers. The website highlights Sultan's Dine's services

including menu details, customer reviews and contact information. With a simple yet effective structure, the site ensures that visitors can quickly find the information they need at a glance.

### Part A — HTML

To successfully develop the website for Sultan's Dine, the project must meet specific requirements. The website will be created using HTML5, incorporating a minimum of five interlinked pages

while ensuring user-friendliness and responsiveness. Additionally, it must adhere to the following essential criteria:-

### Task-A

(1)

Ensuring a well-Designed website:-

To create a successful website, it is essential to follow fundamental web design principles. This ensures a clear layout, intuitive navigation, and user-friendly accessibility. Below are the key factors to make this website:-

## (1) Clear layout and structure:-

A well-structured website layout improves readability and enhance the user experience.

To achieve a clean and professional design:-

 Consistent design :- Use a uniform color

Scheme, font styles, and spacing throughout the website

 Grid-Based Layout :- Using CSS Flexbox

and Grid ensures a well-aligned and balanced structure.

 Whitespace Usage :- Proper spacing between

elements improves readability and prevents clutter.

 Readable Fonts:- Use web-safe fonts

like Roboto, Poppins, or Arial with appropriate font sizes.

The website uses a consistent color scheme, well-structured sections, and readable typography for an elegant design.

(2) Intuitive Navigation:-

Easy navigation ensures that users can move around the website efficiently.

### Fixed Navigation Bar:

A sticky

navigation bar allows users to access links without scrolling back-up.

### Clear Navigation Labels :-

Simple and direct menu items like Home, Menu, About, Gallery, contact us, Reviews and about me helps user understand their purpose.

### Clickable Buttons and links :-

Ensure all navigation elements are properly styled and functional and animated

In my project, A fixed navbar improves accessibility and well defined menu categories help users find information quickly.

### (3) User-Friendly Accessibility :-

A website should be accessible to all users including those with disabilities. Ways to improve accessibility include:-

Alt text for images: Helps visually impaired users understand images through speech readings.

Keyboard Navigation support: Users should be able to navigate using the tab key.

Contrast and color selection: Ensures readability for users with visual impairments.

By following these principle, the website visually appealing, easy to navigate, accessible. A well designed website enhance the user experience, ensuring visitors stay engaged.

## (2) Designing a website for standard Desktop

### Screen Resolution:-

Ensuring that a website fits within standard desktop screen resolutions is crucial for a seamless user experience. A well-designed layout prevents horizontal scrolling, maintains readability, and ensures accessibility across different screen sizes. Below are the key principles to achieve this:-

#### (i) Using a responsive Layout:-

A responsive design ensures that the website adapts to different screen sizes without

requiring users to scroll horizontally. This is achieved through:

④ CSS Flexbox and grid: These layout techniques

help create dynamic, flexible structure that adjust automatically.

④ Container width limitation: Setting a maximum width (like `max-width: 1200px`) ensures content does not stretch beyond standard resolutions.

④ Viewport Meta Tag:

`<meta name="viewport" content="width=device-width, initial-scale=1.0">` ensures the website adapts properly across devices.

My website is built using CSS Grid and Flexbox, ensuring the content remains within the optimal width range.

(2) Setting standard width for Desktop Screen :-

Website should be designed to fit within common desktop resolutions such as:

- 1920 x 1080 px → Recommended : 1200-1900px
- 1366 x 768 px → content should not exceed 1280 px
- 1440 x 900 px → A flexible layout . works best.

To create this, we use:-

- container {

```
max-width: 1200 px;
```

```
margin: 0 auto;
```

```
padding: 20 px;
```

```
}
```

My website uses a centered container with a max width to ensure no content overflows the screen width.

(3) Preventing overflow and Horizontal Scrolling :-

To avoid unwanted horizontal scrolling:

use (overflow-x: hidden); to prevent elements from exceeding the viewport width. Ensure images and videos are

responsive using (max-width: 100%); so they do not exceed their container.

My project's images and text blocks are designed to be fluid and responsive, ensuring they fit within the screen without causing overflow.

By following these principles, the website remains fully visible on standard desktop screens, eliminating the need for horizontal scrolling. A structured, responsive design enhances readability, improves navigation and provides a smooth user experience.

### (3) Designing a well structured Form for Effective user information capture :-

Forms play a crucial role in gathering user data, enabling smooth communication between business and customers. A well structured form should be designed to ensure clarity, ease of use, and efficiency while collecting the necessary information.

Below are the key principles for creating an effective form :-

#### (1) Clear and Logical Layout :-

A well organized form should follow a

logical flow, guiding users through the input fields effortlessly. Grouping related fields together, such as personal details, contact information and preferences, helps user complete the form efficiently.

## (2) Diverse Input elements :-

To collect a wide range of information, a form should include :-

Text Fields :- For names, email addresses, and other text based data.

Dropdown menus :- Useful for selecting predefined options, such as event types.

checkboxes :- Ideal for allowing multiple selections.

Radio button :- Helps user select single option

Buttons :- Includes submit and reset buttons for easy form interaction.

### (3) User-Friendly and Accessible Design :-

- Labels and placeholders should be provided for each input field to ensure clarity.
- Error handling and validation should be implemented to prevent incorrect submissions.

By implementing these principles, the form enhances the overall user experience, making it intuitive, functional and effective.

## TASK - B :-

### (1) Site structure Diagram

My website consists of seven interlinked pages, each serving a specific purpose:-

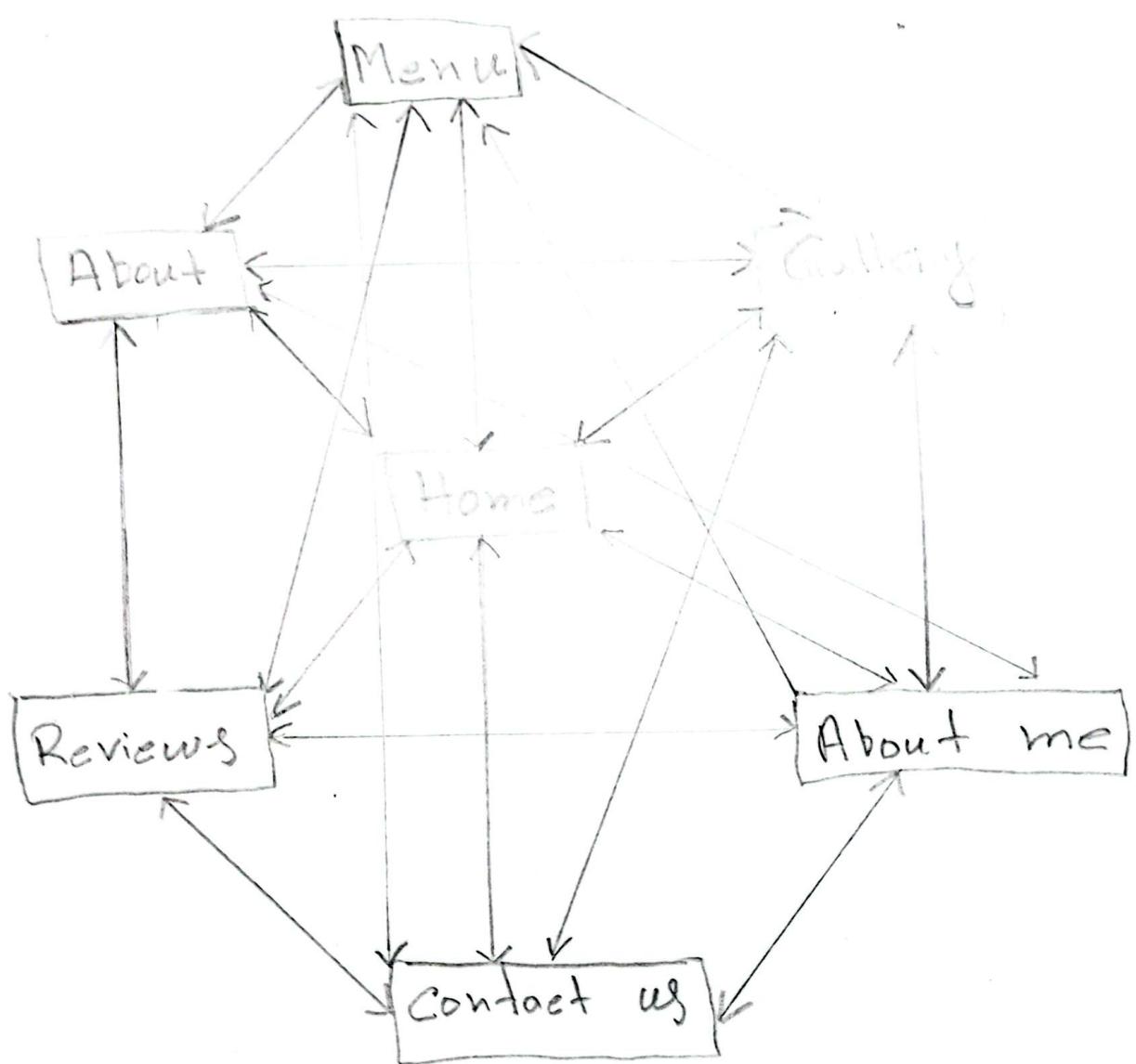
- (i) Home :- The landing page that welcome visitors and provides an overview of sultan's Dine.
- (ii) Menu :- Display available dishes and special event menu
- (iii) About :- Describe the business, ~~it's~~ it's history and mission.
- (iv) Gallery :- Showcase food and event images
- (v) Contact Us :- Provides an inking form,

location, and contact details.

(6) Reviews - Show customer feedback.

(7) About me: Details about <sup>me.</sup> ~~the project~~

site-structure diagram



All pages are interconnected through a consistent navigation bar, ensuring smooth user experience and accessibility.

(2)

## Browser testing and Analysis :-

To ensure compatibility and a consistent user experience, the Sultans Dine website was tested on Google Chrome and Mozilla Firefox. The testing focused on appearance, responsiveness and functionality across both browsers.

### Browser-1:- (Google Chrome)

Appearance: The website displayed

correctly with all elements properly aligned.

Fonts, colors and images loaded as expected.

Functionality:- Navigation, interactive elements (button, forms) and animations worked smoothly.

Responsiveness :- The layout adjusted well on different screen size, maintaining readability and structure.

(2) Browser 2:- (Mozilla Firefox) :-

Appearance :- Overall, the website looked the same as in chrome, However, slight differences in text rendering

were noticed due to Firefox's font smoothing.

Functionality issue :- Some CSS animations appeared slightly slower compared to Chrome.

Responsiveness : The contact from had minor alignment issues on smaller screen, likely due to Firefox handling flexbox properties differently.

Analysis :-

CSS Rendering Differences :- Browsers use different engines (Chrome: Blink,

Firefox: Gecko), which can cause variations in font appearance and animations.

Javascript performance:- While most

interactive elements functioned properly

minor variation in animation smoothness

were noticed in Firefox.

Responsiveness variations:- Minor

inconsistencies in layout responsiveness

were observed, requiring additional

CSS adjustment for better cross-browser compatibility.

### (3) HTML Validation Using W3C Validator

To ensure that the Sultan's Dine website adheres to web standards, all HTML Pages were validated using the W3C Markup Validation Service. The process helps identify errors, improves code quality and enhance cross-browser compatibility.

Index.html validation report:-

① Bad value for href and src attributes

Issue:- `<source src="final video.mp4" type="video/mp4">`

Solution:- Rename the files to remove spaces (e.g., final-video.mp4).

Issue: `<a href = "contact us.html">` and

`<a href = "about me.html">`

Solution: Replace spaces with hyphens.

(2) `<button>` element inside `<a>` is not allowed :-

Issue:- `<button class = "mcu-button">`

menu `</button>` inside `<a>`

Solution: Use a `<div>` or `<span>` instead

About me.html Validation Report:-

Errors:-

(1) ~~Trailing slash~~ (1) Incorrect href

values with spaces same as index.html

## About.html validation Report

① Unclosed <footer> and stray end tags

Issue: <footer> is not properly closed

Solution: Ensure <footer> is properly nested within <body>

## Contact us.html validation Report

① Invalid width value in <iframe>:-

Issue: width='100%'

Solution: Use width='100' or set width using CSS.

② Unclosed section:-

<section tag left open.

## ~~Contact~~<sup>main</sup> html validation Report

① Same as contact (8.htm)

☒ space in href filenames.

☒ (iframe) width issue.

☒ Unclosed section.

Review.html validation Report:- Same as menu.html

Rename all files to remove spaces. Use correct closing tag. Ensure all elements are properly nested.

After fixing these issue, revalidate using w3c validator to confirm all errors are resolved.

## Part B - CSS

Developing an External CSS file for Website styling :-

To ensure a visually appealing and well structured website, I have used external CSS files to control the design and layout of all HTML pages. The following CSS files have been linked to the website:

① Shihab.css :- The file containing the

Core styling of the website, including typography, layout, colors, buttons, and other design elements.

② Media.css The file is specially used for responsive design, ensuring the website adapts to different screen sizes and devices using media queries.

Key CSS properties used and their purpose

① Layout and structure:

~~display: flex;~~ → Used to create flexible layouts, making it easier to

align elements in a row or column.

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

helps in designing a grid based layout for a structure website.

Position: relative; / absolute; / fixed →  
used for positioning elements precisely  
on the page.

## (2) Typography:

font-family: Roboto → defines  
the font style to enhance readability.

font-size: 16px; → control the text  
size for better visibility.

color: #A15E40; → sets text color

according to the website's theme.

 text-align:Center; → Aligns text properly within sections.

### (3) Spacing and Alignment:-

 margin: 20 pu; → Provides space around elements to avoid congestion.

 padding: 10pu 15pu; → Adds space inside elements for better structure.

 gap: 10pu; → Creates spacing between elements in flexbox or grid layouts.

### (4) Background and Borders:-

 background-colour: # f6ecco → Applying

border-radius: 10px; → Rounds the corners of buttons, images, and boxes for a modern look.

box-shadow: 0px 4px 6px rgba(0,0,0,0.1) → Adds a slight shadow effect for depth

## (5) Responsive Design (media.css) :

media (max-width: 768px) { ... } → Applies styles specifically for devices with a screen width of 768 px or less.

width: 100% → Ensures elements adjust properly on smaller screens.

## ⑥ Footer styling:-

Position: relative; bottom: 0; width: 100%

→ Ensure footer stays at the bottom.

text-align: center; → centers footer

content.

By using CSS, the website maintains a consistent design across all pages.

The combination of flexbox, grid, typography and media queries ensures

that the website is both visually

appealing and fully responsive.

## Part C - Javascript

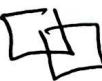
Developing an External javascript file (script.js) for website Behavior:-

To enhance the interactivity and user experience of the website, I have created an external javascript file (script.js) that is linked to HTML Pages. The Javascript file adds dynamic behaviors such as a header slider in the hero section and a

Scroll-to-top button for better usability.

① Javascript Header slider in the Hero-Section :-

A header slider (also known as an image carousel) is used in the hero section of the website to showcase multiple images or messages in a sliding effect. This improves the website's visual appealing and engagement.

 Javascript dynamically changes the

active-slide after a few seconds

Using setInterval().

When the slide changes, the previous image fades out, the next image fades in smoothly.

key javascript function used:-

querySelector() and querySelectorAll()

→ Used to select the slider container and images.

setInterval() → Automatically changes the image after a certain time interval.

add Event Listener() → Detects user click  
for manual navigation.

CSS classes manipulation (classList.add)  
→ creates smooth transition effect.

## ② Scroll - to - Top Button

A scroll - to - top button allows user to quickly return to the top of the page, improving navigation and user convenience.

The button remains hidden when the page is at the top.

- As the user scrolls down, ~~java~~ Javascript detects the scroll position and makes the button visible.
- When clicked, the page smoothly scrolls back to top.

Key Javascript function used :-

Window.ScrollY → Detects the vertical scroll position.

Scroll({top: 0, behaviour: "smooth"}) → Scrolls the page smoothly to the top.

add EventListener("scroll", function() {....}) → Listens for user scrolling.

classList.toggle() → Shows or hides the button dynamically.

The implementation of Javascript for the Slider and scroll-to-top button significantly improves the website's aesthetic appeal, navigation and user engagement.

## Part-D: Critical Evaluation

### Critical Evaluation of the website:-

The submitted website effectively presents its intended purpose with a visually appealing design and user-friendly navigation. The use of responsive design ensures accessibility across different devices. While external CSS and JavaScript enhance both aesthetics and

interactivity. The integration of a header slider and a scroll-to-top button improves user engagement and smooth navigation.

## Recommendations for Further Development

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### (1) Optimize Website Speed:- Implement

Lazy loading for images, use efficient caching strategies and minimize HTTP requests to ensure a faster browsing experience.

## Enhancing Mobile Experience

Currently, the website is functional on mobile device but could be further refined for a smoother and more visually appealing experience. Some elements, such as spacing, font sizes and button placements, may need adjustments to improve readability and ease of navigation. Implementing better media queries, optimizing image scaling and ensuring touch-friendly interaction will enhance the mobile user experience significantly.

## Expand content:

Add a testimonial section and FAQs to improve user engagement.

By implementing these improvements, the website can achieve higher efficiency, better accessibility, and an enhanced user experience.

## Conclusion

The project was a comprehensive ~~journage~~ journey in web development, integrating HTML, CSS, and Javascript to create a functional and visually appealing website. Each section of the website was carefully designed to ensure responsiveness, interactivity and user engagement. The external CSS and javascript files helped maintain a structured and efficient

Coding approach, making the website easily sealable for further improvement.

While the project successfully meets its object, there is always room for further enhancement. Improvements in performance optimization, mobile responsiveness, responsiveness and user experience could elevate the overall quality of the website.

The website serves as a strong foundation that can be expanded

and refined further to achieve a more dynamic and professional online presence.

### References:-

(1) MDN Web Docs :- HTML, CSS and

JavaScript Documentation

(2) W3Schools :- Web development

tutorials and Examples.

