

**Assignment**

**No:**

**1**

1

.

Create a responsive website for a fictional restaurant. The website should display

correctly

on

devices of various sizes, using media queries and a mobile

-

first design

approach

.

**Objective:**

•

To create

a responsive website for a fictional restaurant

.

•

Use media queries for responsiveness of the webpage

.

**Theory:**

**1**

**. Introduction to Responsive Web Design**

Responsive Web Design (RWD) is an approach to web design that makes web pages

render well on a variety of devices and window or screen sizes. It's a crucial concept in

modern web development, ensuring that websites are accessible and user

-

friendly across

d

ifferent platforms, from mobile phones to desktop computers.

**2**

**. Mobile**

**-**

**First Approach**

The mobile

-

first approach is a design strategy that prioritizes designing for mobile devices

before designing for

desktop or other devices. This approach has gained popularity due to the

increasing use of mobile devices for web browsing.

**3**

**. CSS Media Queries**

Media queries are a key component of responsive design. They allow you to apply CSS styles

based on various parameters, most commonly the width of the browser viewport.

Example of a Media Query:

/\* CSS \*/

@media

screen

and (

min

-

width

:

768

px

)

{

/\* Styles for screens 768px and wider \*/

}

**. Flexible Layouts**

**4**

Flexible layouts use relative units like percentages instead of fixed units like pixels. This

allows content to adapt to different screen sizes.

# Responsive Images

Images should adapt to different screen sizes to maintain performance and visual appeal.

Techniques:

* Use of max-width: 100%
* srcset attribute for serving different image sizes
* Picture element for art direction

# Typography in Responsive Design

Typography plays a crucial role in responsive design. Font sizes, line heights, and paragraph widths should be adjusted for different screen sizes.

Best Practices:

* Use relative units (em, rem) for font sizes
* Adjust line-height for readability on different devices
* Consider font weight and contrast for legibility

# Navigation Patterns for Responsive Design

Navigation is one of the most challenging aspects of responsive design. Different patterns can be used to make navigation accessible on smaller screens.

Common Patterns:

* Hamburger menu (as implemented in our design)
* Priority+ navigation
* Footer anchor

**Conclusion:**

It demonstrates Creation of a personalized site using HTML, CSS, JS and using and integrating frameworks like bootstrap and AJAX etc

**GitHub Repo with Source Code :**

[FSDL Assn 1](https://github.com/RudradevArya/FSDL/tree/main/1_responsive_restaurant)

**Output**

**(Screenshots):**



