

Department of Electrical and Electronics Communication Engineering

Subject: Full Stack Development

Semester: VI AY 2025-26

Name: Samyak Bakliwal Class: T. Y. B. Tech. Roll No: 1032221792 Batch: G3

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Experiment No: 2

Name of the Experiment: Responsive web design using HTML5 and BOOTSTRAP

Performed on:	Marks	Teacher's Signature with date
Submitted on:		

Aim: Responsive web design using HTML5 and BOOTSTRAP

Objective:

- To understand HTML tags
- To learn the styling of web pages using CSS
- To learn Bootstrap Front End Framework.

Platform: HTML, CSS, BOOTSTRAP, VSCode

THEORY:

Instructions: you are requested to write answer of following questions in A4 size pages.

- 1. Name some new HTML5 elements useful for structuring a webpage.
- 2. Explain Bootstrap Grid System.
- 3. Explain in detail Bootstrap .container and .container-fluid class.
- 4. What are media queries in CSS?

Problem Statement:



Design and develop a responsive web page (For example student registration, course enrollment, library management system, online shopping system etc.) using Bootstrap front end framework. Web pages should contain HTML5 elements (Use all possible formatting for example font, colour etc.).

Web page should include various

- images,
- links within the page,
- tables
- lists
- form elements
- paragraphs
- links to other pages for navigation,
- new tabs.

Use Cascaded Style Sheets (CSS) to style the web pages designed. Make use of

- Three types of styles (Inline, Internal and External)
- border,
- margins,
- padding,
- navigation,
- dropdown list
- tag selector
- class selector
- id selector
- exploring background image and position property etc.

Output:

- 1. Screenshots of the output of problem statement to be attached.
- 2. Share GitHub repository link of above project





Samyak Bakliwal

I am a third year Btech student from MIT WPU

I am passionate about technology, creativity, and continuous learning. Currently, I am exploring web development to create amazing online experiences.

My Hobbies and Interests

- Playing Badminton
- Traveling: Visiting new places and experiencing different cultures.
- <u>Photography:</u> Capturing moments through my lens.

My Favorite Website

One of my favorite websites is **CURA**

An Image Example

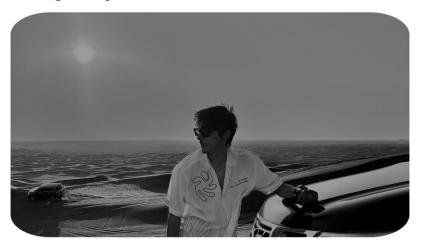




My Favorite Website

One of my favorite websites is CURA

An Image Example



CURA



Conclusion:

In this experiment, we explored the fundamental concepts of HTML5, CSS, and Bootstrap to design and develop a responsive web page. By utilizing HTML5 elements, we structured the webpage efficiently, while CSS and Bootstrap enhanced the design and responsiveness.

Git link - https://github.com/samyakbakliwal05/SamyakBakliwal

Additional Links:

https://youtu.be/vpAJ0s5S2t0?si=r378S4khu8O4mPu2 https://youtu.be/_fBRGDxTnt4?si=EIIze6HhYXN0b6hk

Post lab question:

- 1. What is a responsive website?
- 2. How Bootstrap helps to design a responsive website?
- 3. How does HTML5 improve accessibility in web design?



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