

HMI EXPERIMENT 6

Roll No. A-22	Name: Pritam Nikalaje
Class: BE-A	Batch: A2
Date of Experiment:	Date of Submission
Grade :	

AIM:

Design website for an application of the selected domain with home page and subsequent pages.

B.1 Tools used to develop application:

Languages Used:

➤ **HTML**

- HTML stands for HyperText Markup Language, which is the most widely used language on the Web to develop web pages.
- HTML is being widely used to format web pages with the help of different tags available in HTML language.

➤ **CSS**

- Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.
- CSS is a MUST for students and working professionals to become great Software Engineers especially when they are working in Web Development Domain.

➤ **Bootstrap 5**

- Bootstrap is the most popular front-end framework in recent times.
- Bootstrap 5 is the newest version of Bootstrap; with new components, a faster stylesheet, and more responsiveness.
- It is a sleek, intuitive, and powerful mobile first front-end framework for faster and easier web development. It uses HTML, CSS, and Javascript.

➤ **JavaScript**

- JavaScript is a lightweight, interpreted programming language. It is designed for creating network-centric applications.
- It is complementary to and integrated with Java. JavaScript is very easy to implement because it is integrated with HTML. It is open and cross-platform.

B.2 Choice of User Interface Elements:

➤ **<nav>:**

- The <nav> element in HTML is used to set navigation links in an HTML document. This tag was introduced in HTML5.
- Browsers, such as screen readers for disabled users, can use this element to determine whether to omit the initial rendering of this content.

➤ **:**

- The tag is used to embed an image in an HTML page.
- Images are linked to web pages. The tag creates a holding space for the referenced image.
- The tag has two required attributes:
 - src - Specifies the path to the image
 - alt - Specifies an alternate text for the image, if the image for some reason cannot be displayed

➤ **<input type="radio">:**

- The <input type="radio"> defines a radio button.
- Radio buttons are normally presented in radio groups (a collection of radio buttons describing a set of related options).
- Only one radio button in a group can be selected at the same time.

➤ **<button>:**

- The form attribute specifies the form the button belongs to.
- The value of this attribute must be equal to the id attribute of an <form> element in the same document.

B.3 What is persona? List out the procedures you used to create the persona of your application?

Personas are fictional characters, which you create based upon your research in order to represent the different user types that might use your service, product, site, or brand in a similar way. Creating personas helps the designer to understand users' needs, experiences, behaviors, and goals.

1. Recognize user behavioral patterns.
2. Schedule interviews based on user behavior.
3. Recognize trends in user behavior.
4. Create a variety of user attributes and appropriate goals.
5. Verify if the goals are complete.
6. Describe all of the user's characteristics and behavior.

B.4 User Interface Designs:

Student Result Analysis

Student Login Faculty Login Admin Login

The image displays a user interface for 'Student Result Analysis'. At the top, there is a main title 'Student Result Analysis' and three login buttons: 'Student Login', 'Faculty Login', and 'Admin Login'. Below the title, there is a large area for displaying student results. On the left side of this area, there are three small circular icons representing different students. To the right of each icon is a grid of six circles, each containing a letter grade: A+, A, B, C, D, and F. In the middle column of the grid, the first three circles are highlighted with a red border. To the right of the main display area, a separate window or a floating panel shows a large, prominent red 'A+' grade, indicating a top result. At the bottom, a woman with dark hair, wearing an orange shirt, is seated at a desk, facing a computer monitor. She is holding a piece of paper, possibly a document or a printout related to the results shown on the screen.

Hi, Pritam

All Semester Grades

View Results for all Semesters

Subject Wise Result

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Results Section

Exam Date : May-18

Semester : 4

Seat No : 2165

Attempt : Regular

Subject Code : ALL

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Exam Date : Nov-17

Semester : 3

Seat No : 1413

Attempt : KT

KT Subject Code :

[View Result](#)

B.5 How do the design guidelines and principles help in creating your application?

It assisted in the building of a clear, compatible, complete, direct, adjustable, consistent, regulated, efficient, and adaptable website for this experiment.

B.6 Conclusion:

After the successful completion of this experiment, we were able to apply the HMI principles and guidelines in designing an interactive user interface