

HTML design.

Design an HTML that will contain pages for a Home Page, Introduction, projects, a binary calculator and a Forms page.

Make a footer for the HTML.

Make the HTML look like a technological era or captivating to the viewer's eyes.

Page Designs.

In Homepage:

- allow me to insert a logo in the top left corner.
- Insert the name of the university
- Course name and number
- Student name and ID

In the Introduction Page:

- A section for the Introduction of the HTML or purpose.
- A section for the introduction of the student members.
- A section for the introduction of the Lecture.
- This will allow the upload of the student image, student ID and a short description of the student.

In the Projects Page:

- This will allow the students to upload their video project.
- Must have a title, description, video, and link

Binary Calculator Page:

- At the top and centre of this page. A short description of what a binary is. "Binary is a base-2 number system that uses only two digits, 0 and 1, to represent all information. It is the fundamental language of computers, where 0 represents "off" or "false" and 1 represents "on" or "true," allowing digital devices to process and store data like text, images, and code."
- How binary works
- **A base-2 system:** Unlike the decimal (base-10) system we use daily, binary only has two digits, creating a system with a base of 2.
- **On and Off states:** In a computer, binary digits (\$0\$s and \$1\$s) correspond to the two states of electronic circuits, such as a transistor being "off" (0) or "on" (1).

- **Bits and bytes:** A single binary digit is called a "bit." A group of eight bits is called a "byte," and these combinations are used to represent a wider range of characters, numbers, and instructions.
- **Example:**
- To represent the number 2 in binary, you would use "10" ($1 \times 2^1 + 0 \times 2^0 = 2$). To represent 3, you would use "11" ($1 \times 2^1 + 1 \times 2^0 = 3$).

- Generate the Binary Calculator.
- This will allow the user to convert from binary to decimal and from decimal to binary.
- The calculator will also enable the user to add and subtract binary.
- Make the calculator look technologically engaging.

Documentation Page:

- This page will allow the upload of the AI declaration form, and the Group Participation forms