Dear Students

This is not just a simple list of projects, but a collection that describes each project in enough detail so that you can develop it from the ground up!

For each project, following **features need to be considered**:

1. A clear and descriptive objective;
2. A list of **bonus features** that not only improve the base project, but also your skills at the same time
3. All the resources and links to help you find what you need to complete the project

1. **Login authentication**

Login authentication is a vital process, widely followed by organizations to keep their servers safe by allowing access only to authenticated users. Every website or application demands users to complete the login authentication process to cement their credentials for security and to improve user experience.

In this project, you will design a website’s login authentication bar – where users enter their email ID/username and password to log in to the site. Since almost every website now comes with a login authentication feature, learning this skill will come in handy in your future web projects and applications.

1. **Music player using JavaScript**

The architecture, which is divided into three buckets, will be used: CSS (Cascading Style Sheets (adding styling to each element defined in the HTML file) JavaScript is a programming language that allows you to (adding elements for audio, player buttons, and music information) (when HTML elements are clicked, functionality is added).

Before diving into the code, take some time to plan this out. You will get your hands on HTMLMediaElement Interface to play audio files and control its playback. In this project you will get to work on Sliders, Flex Layout and different functions of JavaScript.

1. **Build your own portfolio site**

You should be able to organize a webpage with HTML, style its elements with CSS, and make the website interactive with JS.

Task is to create a form containing all the relevant fields to be filled by the person and after submission of the form, a portfolio will be created with appealing designs and styles.

When submit the contact form, you'll get an error message if:

* + If any component e.g. Name, Email Address, or Message fields are blank, the message "This field is required" should appear.
  + Also “use a valid email address” should appear if the email address is not formatted correctly.

1. **Test Management System**

A test management portal is to be designed using HTML, CSS and JS. For example, A portal consisting of MCQs based test can be designed and based upon the right/wrong answers a score sheet with detail can be maintained.

1. **Big Boss Voting Zone**

A Voting platform is to be designed to show the increase/decrease in the votes of particular contestant using HTML, CSS and JS.

The platform should look quite dynamic to show the progress bars of each contestant.