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
4. **Address book**

In this project, you have to build an application that can search for particular entries in your address book by filtering the attributes you specify.

1. **Countdown timer**

This is a countdown timer or clock. For this project, you just need to create a simple webpage that can update the time every second. With JavaScript as its foundation, you can make the page more appealing by including start, stop, and pause buttons on the page.

1. **Word Counter**

This is a pretty simple project which requires you to build an application that can parse texts and show the number of words and characters contained in a write-up. You can also include additional functionality in the word counter to provide more advanced information such as the number of passive sentences in a block of text.

1. **Toast notifications**

In this project, you will be required to design a toast notification tool. Using your JavaScript skills and knowledge, you’ve to create a functional toast notification tool that can respond to events on the page and notify the users as and when an event has been completed successfully. You could also use the setTimeout function to represent the delay in loading or saving data.

1. **Social share buttons**

In this project, you will take up the challenge of writing JavaScript code that will allow you to add social share buttons to static sites. While you can do this by incorporating HTML elements or images in the site’s template, using JavaScript allows you to add the share buttons dynamically.

1. **Note log**

This project will be much like the to-do list project. The aim here is to design and build a notes app that can take multiple entries per note. It should allow users to select a note when they launch the app. When they choose a note, a new entry will be automatically tagged along with the current date, time, and location. Users can also sort and filter their entries based on this metadata. This is a great web app for tracking events and resolving messy calendar problems.

### Exit the plugin

In this project, you will design an exit widget or plugin. When you visit a website or a webpage, you must have seen the tiny pop-ups that show on the screen when you wish to exit the site/page. Companies usually use exit plugins to show exciting offers to keep a user on the page. This is precisely what you have to design.

1. **Survey form**

Lots of companies use survey forms as a means of collecting relevant data about their target audience.  In this project, you will have to design a full-fledged survey form that includes relevant questions like name, age, email, address, contact number, and other questions, depending on the type of company or organization you are shaping the form. This project will put to the test your webpage structuring skills

### Tribute page

A tribute page is a webpage dedicated in honor of someone you love, admire, or respect. It can be a person or a beloved pet.

A tribute page is a perfect project for sharpening your HTML and CSS skills and knowledge. In this project, you will make a webpage where you can write and dedicate a tribute to someone and publish the same. Apart from the write-up for the tribute, you need to add relevant images, links, etc., on the page.

1. **Google Search Engine lookalike**

Another interesting JavaScript project on our list, this project requires you to build a webpage that resembles Google’s home page. Keep in mind that you have to build a replica of Google home page along with the Google logo, search icons, text box, Gmail, and image buttons – basically, everything that you see on Google’s home page. While building this project, you must ensure that the webpage can display at least ten search results (just like Google). Also, you must include the navigation arrow at the bottom of the webpage so that users can switch to the next page.

1. **A drawing Tool**

This JavaScript-based project uses JavaScript as a drawing tool to bring to life HTML and CSS elements on a web browser. The best thing about this project is that you can take advantage of JavaScript’s supercool drawing libraries like oCanvas, Canviz, Raphael, etc.

By working on this project, you can learn how to use and implement JavaScript’s drawing capabilities. This skill will come in handy for enhancing the appeal of static pages by adding graphical elements to them.

1. **SEO-friendly website**

Today, SEO is an integral part of website building. Without SEO, your website will not have the visibility to drive traffic from organic searches in SERPs (search engine result pages). While Web Developers are primarily concerned about website functionality, they must have a basic idea of web design and SEO. In this project, you will take up the role of a Digital Marketer and gain in-depth knowledge of SEO. When you are well-versed in SEO, you can build a website having user-friendly URLs and featuring an integrated, responsive design. This will allow the site to load quickly on both desktop and mobile devices, thereby strengthening a brand’s social media presence.

### To-do list

Create a web development project comprising various features essential for daily life. To-do lists contain user-interactive features with basic features like adding or removing tasks, highlighting dates, strikethrough features to indicate completion, and other text decoration components.

You can use JavaScript to build a web app that allows you to make to-do lists for routine tasks. For this project, you must be well-versed in HTML and CSS. JavaScript is the best choice for a to-do project since it allows users to design interactive coding lists where they can add, delete, and also group items.

### JavaScript quiz game

This web development project aims to create a JavaScript quiz game that can take multiple answers and show the correct result to users. While gaining JavaScript knowledge isn’t tricky, applying that knowledge in real-world scenarios is usually challenging. However, you can experiment with your skills by working on a small JavaScript-based quiz game.

While building this project, you will not only deal with complex logic, but you will also learn a lot about data management and DOM manipulation. Depending on your JavaScript skills and ability to handle complex logic, you can make the game as simple or complicated as you want it to be!

1. **Product landing page**

Being the face of any website, a product landing page has the ability to target customers more than any other aspect through its visuals and various other compelling features. Designing a product landing page is vital for web developers to test practical skills and how convincing they actually are. To develop a product landing page of a website, you must have sound knowledge of HTML and CSS. In this project, you will create columns and align the components of the landing page within the columns. You will have to perform basic editing tasks like cropping and resizing images, using design templates to make the layout more appealing, and so on.

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.

1. **Caffe Management System**

A Caffe management portal is to be designed using HTML, CSS and JS. For example many components can be added such as Menu list, Price list, Bill generator, Any reward policy if any, Best Customer etc.

1. **Food Ordering Site**

In this site, a person can choose food items based on various inciting and available menu options. A payment method and bill information can be added. You can also refer to Ufood app running in University for ordering of food.