

PROJECT REPORT FRONT END ENGINEERING

Submitted by

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DECLARATION

We hereby declare that the courses submitted as part of Bachelor's degree in CSE, at Chitkara University, Punjab, is an authentic record of our own work carried out under the supervision of Dr.Mandeep Kaur & Mr.Vikas.

AKNOWLEDGEMENT

We have taken efforts in this project. However, it would not have been possible without the kind support and help of many individuals and organizations. We would like to extend our sincere thanks to all of them.

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ABSTRACT

FRONT END DEVELOPEMENT:

A front-end developer uses code that affects how a website looks and how a user interacts with its webpages. That includes simple elements such as buttons that take a visitor to different places within the website, as well as input methods, like a contact form. The programming languages that a frontend developer uses can create a static webpage or a dynamic one the front end is also commonly referred to as the client side, or more broadly speaking, the user interface. While many people use front end to describe website-related development, it can refer to any software that a user interacts with. Front-end work can improve not only mobile and desktop sites but video social media tools as well. Front-end developers can help the browser edit and compress videos and render better visual displays.

A front-end developer had to build these compelling templates that interact with payments, colour schemes, and graphics.

Common Skills Needed:

1. Proven technical skills in web programming;
2. Demonstrated skills with HTML and CSS;
3. Experience working with others to test, diagnose, and analyze software;
4. An understanding of security and best development practices.

Programming languages included:

- HTML
- CSS
- jQuery
- JavaScript

HTML: Hyper Text Markup Language

The Hyper Text Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It is often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for its appearance.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes, and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as `` and `<input />` directly introduce content into the page. Other tags such as `<p>` and `</p>` surround and provide information about document text and may include sub-element tags. Browsers do not display the HTML tags but use them to interpret the content of the page.

HTML can embed programs written in a scripting language such as JavaScript, which affects the behaviour and content of web pages. The

inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997. A form of HTML, known as HTML5, is used to display video and audio, primarily using the <canvas> element, together with JavaScript.

The major points of HTML are given below:

- HTML stands for Hyper Text Markup Language.
- HTML is used to create web pages and web applications.
- HTML is widely used language on the web.
- We can create a static website by HTML only.
- Technically, HTML is a Markup language rather than a programming language.

FEATURES of HTML:

- 1) It is a very easy and simple language. It can be easily understood and modified.
- 2) It is very easy to make an effective presentation with HTML because it has a lot of formatting tags.
- 3) It is a markup language, so it provides a flexible way to design web pages along with the text.
- 4) It facilitates programmers to add a link on the web pages (by html anchor tag), so it enhances the interest of browsing of the user.

CSS: Cascading Style Sheets

CSS stands for Cascading Style Sheets. It is a style sheet language which is used to describe the look and formatting of a document written in markup language. It provides an additional feature to HTML.

It is generally used with HTML to change the style of web pages and user interfaces. It can also be used with any kind of XML documents including plain XML, SVG and XUL.

CSS is used along with HTML and JavaScript in most websites to create user interfaces for web applications and user interfaces for many mobile applications.

What does CSS do

- You can add new looks to your old HTML documents.
- You can completely change the look of your website with only a few changes in CSS code.

Why use CSS

These are the three major benefits of CSS:

- Solves a big problem:

Before CSS, tags like font, colour, background style, element alignments, border and size had to be repeated on every web page. This was a very long process. For example: If you are developing a large website where fonts and colour

information are added on every single page, it will become a long and expensive process. CSS was created to solve this problem. It was a W3C recommendation.

- Saves a lot of time:

CSS style definitions are saved in external CSS files so it is possible to change the entire website by changing just one file.

- Provide more attributes:

CSS provides more detailed attributes than plain HTML to define the look and feel of the website.

FEATURES of CSS:

CSS saves time: You can write CSS once and reuse the same sheet in multiple HTML pages.

Easy Maintenance: To make a global change simply change the style, and all elements in all the webpages will be updated automatically.

Search Engines: CSS is considered a clean coding technique, which means search engines won't have to struggle to "read" its content.

JavaScript (js):

JavaScript is a high-level, interpreted programming language that allows developers to create interactive web pages and dynamic web applications. It was initially developed to add interactivity to static HTML pages, but it has evolved to become a powerful language used for both front-end and backend development.

JavaScript is widely used in web development due to several reasons.

- First, it runs on the client-side, meaning it is executed by the user's web browser, reducing the need for server-side processing and making web applications more responsive.
- Second, it has a simple and beginner-friendly syntax, making it accessible to programmers of all levels of expertise.
- Third, it has extensive support and a large community, providing a vast array of libraries, frameworks, and resources for developers.

FEATUREES of Js:

- JavaScript offers several key features that contribute to its popularity.
- It is an object-oriented language, allowing developers to create reusable code components and organize code into classes and objects.
- It supports event-driven programming, where actions performed by users or the system trigger specific functions, enabling interactivity and responsiveness.

- Another important feature of JavaScript is its ability to manipulate and modify HTML and CSS, enabling developers to dynamically change the content and style of web pages.

INTRODUCTION

- The title of our project is Note Making.
- We have made a drawing tool using html, CSS and JavaScript from which we can create or design beautiful note with date on note which can be easily edited and deleted.
- We have made this project with an initiative to provide a user friendly experience and replicate the user experience of a diary
- Our project has a simple ui that is beginner friendly and easy to understand for anyone new.

PROBLEM STATEMENT

- A project to help the users in tracking events and resolving messy calendars or diaries.
- A short and descriptive place to arrange the tasks.
- To-do lists
- Organize and prioritize some tasks.

TECHNICAL DETAILS

Here are some technical features that could be used to create a survey form using HTML, CSS and JavaScript.

HTML:

The HTML code for the survey form should include the pop-up window's structure, such as a div element containing the form's content, and other features.

CSS:

The CSS code should style the plugin's appearance, including the size, position, and colour scheme. CSS can also be used to create animation effects, such as fading.

JAVASCRIPT:

JavaScript is a versatile programming language primarily used for web development. It enhances websites by enabling interactive features like form validation, dynamic content, and animations. With its extensive libraries and frameworks, JavaScript empowers developers to create robust and engaging user experiences across various platforms and devices.

KEY FEATURES

```
<!DOCTYPE html>
<html lang="en" dir="ltr">
<head>
<meta charset="utf-8">
<title>OUR HTML PROJECT </title>
<link rel="stylesheet" href="index.css">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<!-- Iconscout Link For Icons -->
<link rel="stylesheet"
href="https://unicons.iconscout.com/release/v4.0.0/css/line.css">
</head>
<body>
<div class="popup-box">
<div class="popup">
<div class="content">
<header>
<p></p>
<i class="uil uil-times"></i>
</header>
<form action="#">
<div class="row title">
<label>Title</label>
<input type="text" spellcheck="false">
</div>
<div class="row description">
<label>Description</label>
<textarea spellcheck="false"></textarea>
</div>
<button></button>
</form>
</div>
</div>
</div>
<div class="wrapper">
<li class="add-box">
<div class="icon"><i class="uil uil-plus"></i></div>
<p>Add new note</p>
</li>
</div>
<script src="index.js"></script>
</body>
</html>
```

This part of the code is getting the input of user's name, email, roll number, year, trainer's name etc.

```

/* Import Google Font - Poppins */
@import
url('https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap'
); *{ margin: 0; padding: 0;
box-sizing: border-box; font-
family: 'Poppins', sans-serif;
} body{ background-
image:url(images.jpg);
background-repeat: no-repeat;
background-size: cover;
background-position: center;
height:680px;
}
::selection{
color: #fff;
background: #8fa6df;
}
.wrapper{ margin: 50px; display: grid; gap:
25px; grid-template-columns: repeat(auto-fill,
265px); box-sizing:10px;
}
.wrapper li{ height: 250px; width:
250px; list-style: none; border-
radius: 5px; padding: 15px 20px 20px;
background: #a5e8a4; box-shadow: 0 4px
8px rgba(0,0,0,0.05); }

```

This part of the code is taking the integrating the css to the html and running to the browser.


```

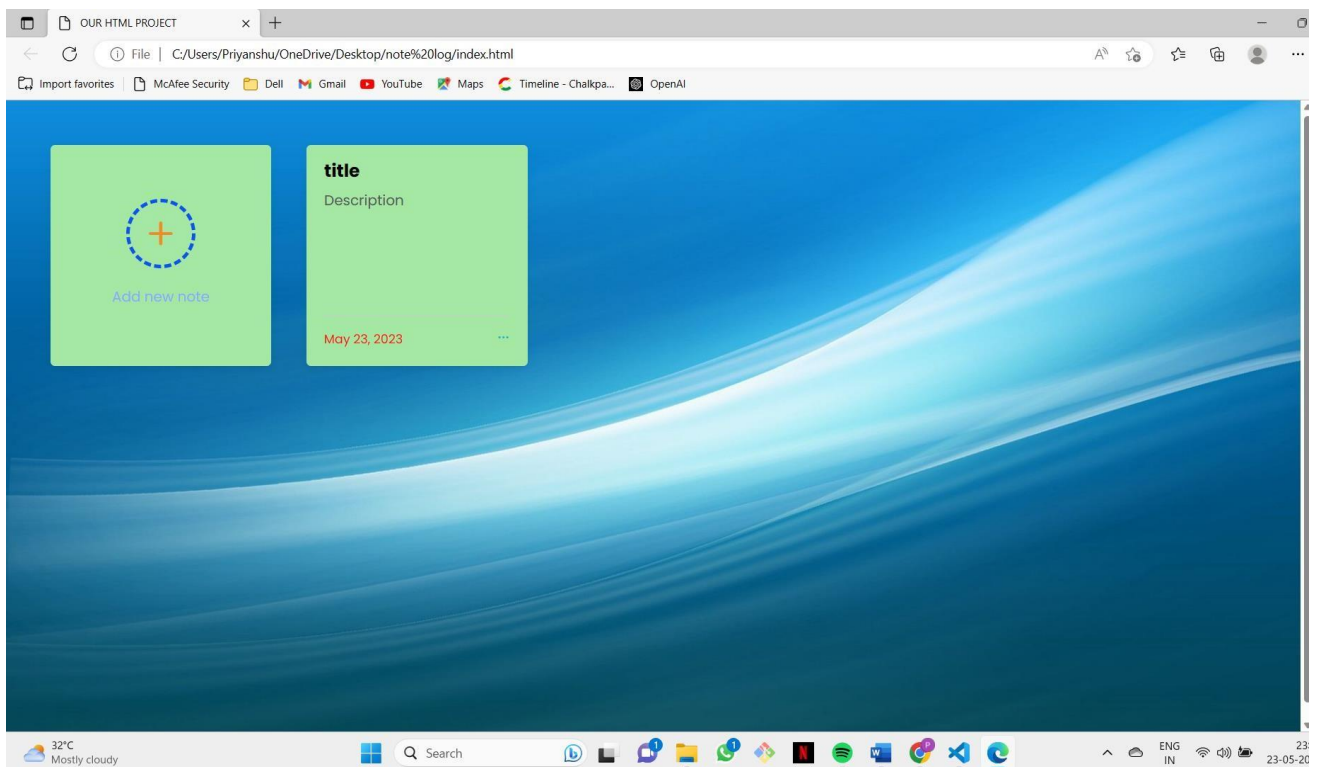
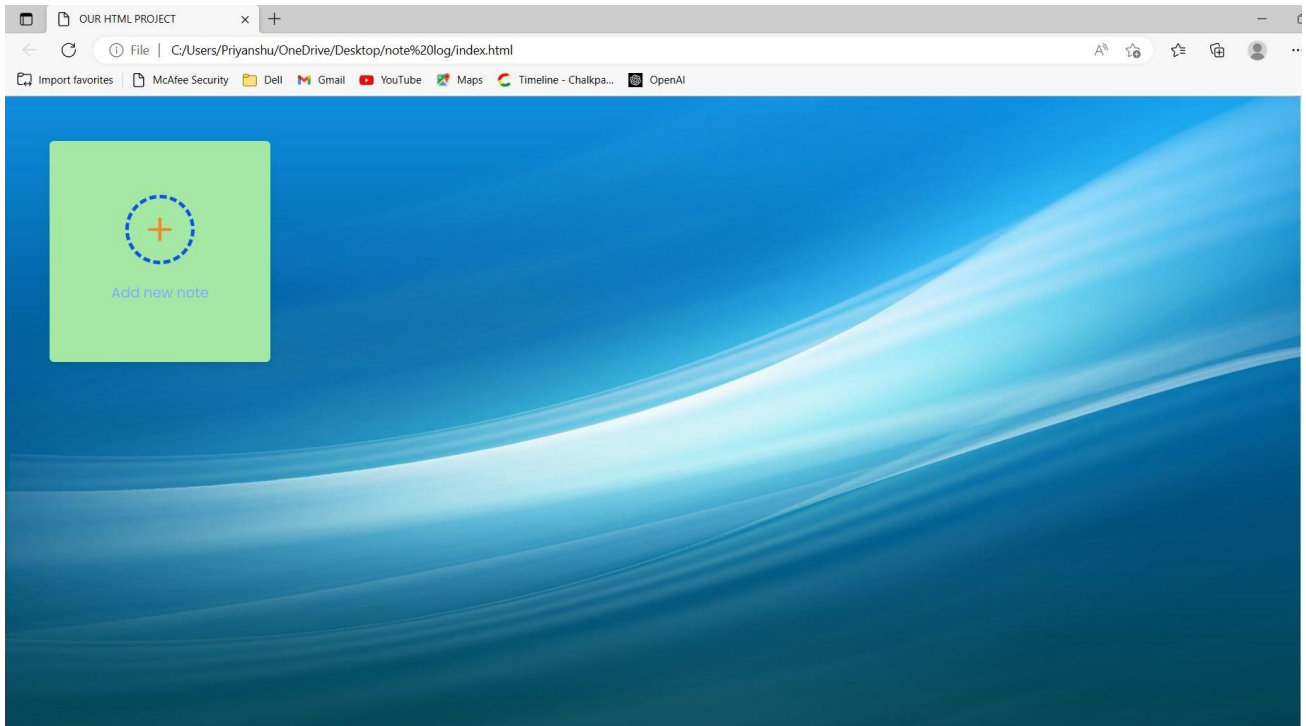
const addBox = document.querySelector(".add-box"),
popupBox = document.querySelector(".popup-box"),
popupTitle = popupBox.querySelector("header p"),
closeIcon = popupBox.querySelector("header i"),
titleTag = popupBox.querySelector("input"), descTag
= popupBox.querySelector("textarea"), addBtn =
popupBox.querySelector("button");
const months = ["January", "February", "March", "April", "May", "June", "July",
"August", "September", "October", "November", "December"];

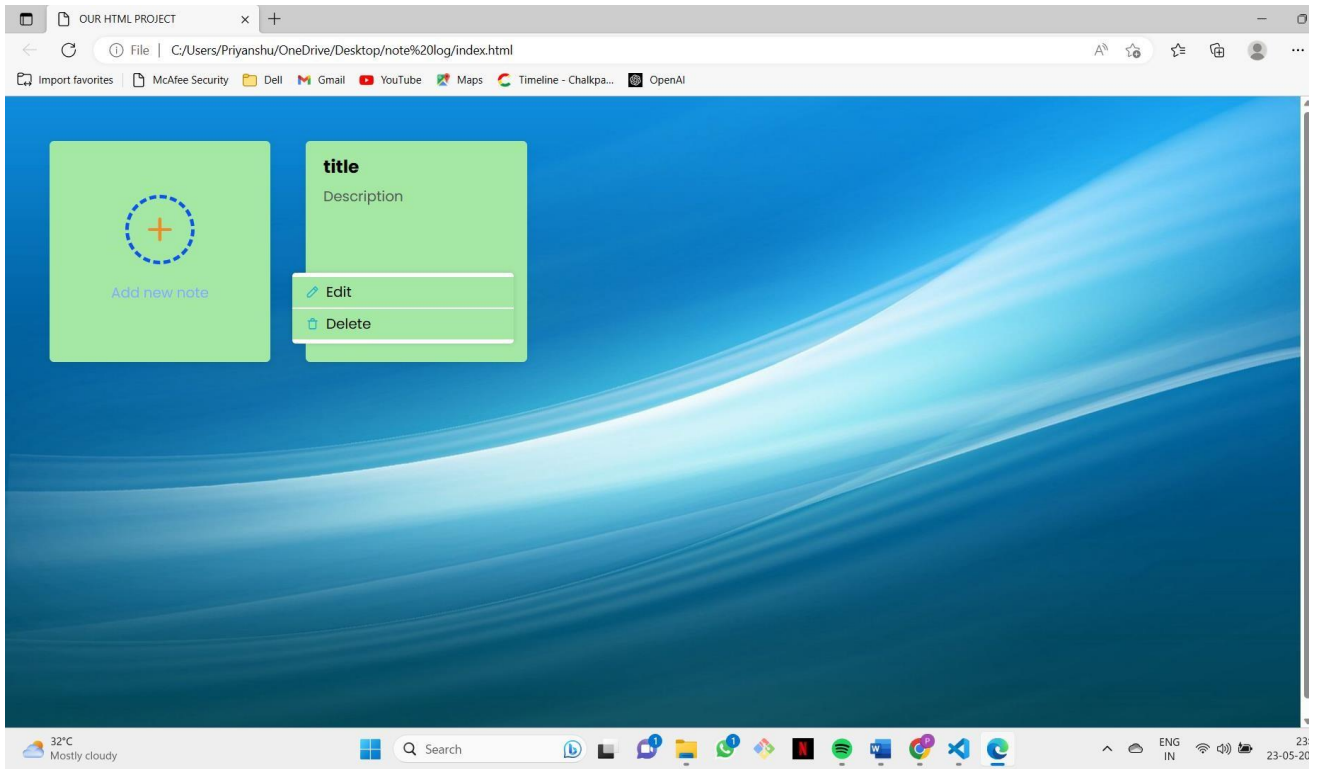
const notes = JSON.parse(localStorage.getItem("notes") || "[]"); let
isUpdate = false, updateId;
addBox.addEventListener("click", () => {
popupTitle.innerText = "Add a new Note";      addBtn.innerText
= "Add Note";      popupBox.classList.add("show");
document.querySelector("body").style.overflow = "hidden";
if(window.innerWidth > 660) titleTag.focus();
}); closeIcon.addEventListener("click", () => {
isUpdate = false;      titleTag.value = descTag.value = "";
popupBox.classList.remove("show");
document.querySelector("body").style.overflow = "auto"; });

```

This part of the code is taking the integrating the js to html and running the browser.

OUTPUT:





CONCLUSION & FUTURE SCOPE

Making this project helped us to get a better grip over HTML ,CSS and Javasript. We now have a better practice on website building as well styling. We hope to work on more project like this.

For future work we are trying to add the features of jQuery.

LIST OF REFERENCES

- <https://fonts.googleapis.com/css2?family=Poppins:wght@400;500;600;700&display=swap>
- [Wallpaper Background for Laptop HP - Bing](#)