**PROJECT REPORT**

* **Project Name : Student Guidance Portal**
* **Course Name : Full Stack Web Development**
* **Team Members:**

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2. **Abhishek Goyal (18EARCS002)**
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* **Objective: This project is built to fulfill the credential criteria of the University for the Summer training after 4th semester.**
* **Introduction: This project is all about a website named student guidance portal which helps a student to know more about what to do next in the context of his education.**

**It has two portions:**

1. **Home Page: This is the main page which open firstly ,and has login form to login in the second portion.**
2. **Informative Portion : This is the page which has all information and it opens after login.**

* **Techniques And Languages Used:**

1. **HTML(Hyper Text Mark Up Language)**
2. **CSS(Cascading Style Sheet)**
3. **JavaScript**
4. **Typescript**
5. **Angular**
6. **Express Js**
7. **Mongodb**
8. **Node**
9. **HTML:** **HTML** (Hyper Text Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as [<head>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/head), [<title>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title), [<body>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body), [<header>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/header), [<footer>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/footer), [<article>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article), [<section>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/section), [<p>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/p), [<div>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/div), [<span>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/span), [<img>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img), [<aside>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/aside), [<audio>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio), [<canvas>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/canvas), [<datalist>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/datalist), [<details>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/details), [<embed>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/embed), [<nav>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/nav), [<output>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/output), [<progress>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/progress), [<video>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video), [<ul>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ul), [<ol>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/ol), [<li>](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/li) and many others.
10. **CSS: CSS** is used to control the style of a web document in a simple and easy way. **CSS** is a simple design language intended to simplify the process of making web pages presentable.
11. **JavaScript: JavaScript is a scripting language which is used for validation.** **JavaScript** (**JS**) is a lightweight, interpreted, or just-in-time compiled programming language. It has object oriented nature.  It’s one of the core technologies of web development and can be used on both the front-end and the back-end.
12. **Typescript:** TypeScript is an open-source programming language developed and maintained by Microsoft. It is a strict syntactical superset of JavaScript and adds optional static typing to the language. TypeScript is designed for development of large applications and transcompiles to JavaScript.
13. **Node:** Node.js is an open-source, cross-platform, JavaScript runtime environment that executes JavaScript code outside a web browser.
14. **Angular:** Angular is a TypeScript-based open-source web application framework led by the Angular Team at Google and by a community of individuals and corporations. Angular is a complete rewrite from the same team that built AngularJS.

HTML is great for declaring static documents, but it falters when we try to use it for declaring dynamic views in web-applications. AngularJS lets you extend HTML vocabulary for your application. The resulting environment is extraordinarily expressive, readable, and quick to develop.

1. **Express:**  Express, is a web application framework for Node.js, released as free and open-source software. It is designed for building web applications and APIs.
2. **Mongodb:** MongoDB is a cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.

* **Reference:**

1. Mr. Sanjay Rathore
2. MR. Ankush Sharma