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Lab 11

Front-End: HTML, CSS, PHP, JavaScript

HTML: Forms the basic structure of the web pages, defining the content elements.

CSS: Styles the HTML elements, controlling the presentation and layout of the website.

JavaScript: Interactivity and dynamic behavior, enhances user experience. Client-side data manipulation.

PHP: Server-side scripting language for backend development. Interacting with the database, managing user authentication and authorization. Implements functionalities like user registration, appointment booking, data retrieval, and more.

Back-End: python, Node.js with a framework Express.js, Django

Node.js or Python with a framework like Express.js or Django can be used for the back-end development. Node.js is a popular choice for building scalable and efficient server-side applications, while Python with frameworks like Django provides a robust and secure environment for web development. Both options have a wide range of libraries and tools available for building web applications.

Database : MySQL

MySQL is an open-source software that offers cost savings and flexibility due to its customization options. Its scalability allows it to handle large data and high traffic websites, and its high performance is attributed to its optimized

storage engines and indexing. It is a reliable, stable database system with ACID compliance, robust security features like user authentication and encryption, and SSL for secure data transmission. Its user-friendly interface makes it accessible for beginners and experienced developers, and supports SQL for database management.

Payment Integration: Stax

Using a EHR/EMR system is best used for both medical records and billing solutions that allows the patients to access their payments and history respectively, The system would securely store the data in one place, for quicker online payment while the admin panel shows the required payment and record it successfully. It can also accept more payment types that correspond to improved patient experience.