**Requirement Gathering and Analysis Phase**

**Solution Architecture**

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| --- | --- |
| Date |  |
| Team ID | SWTID1720026558 |
| Project Name | BOOK A DOCTOR USING MERN |
| Maximum Marks |  |

**Solution Architecture:**

 Frontend**:** Developed using React.js, with UI components from Bootstrap and Material-UI for a responsive and modern user interface.

 Backend**:** Powered by Express.js on Node.js, handling business logic, data processing, and communication with the MongoDB database.

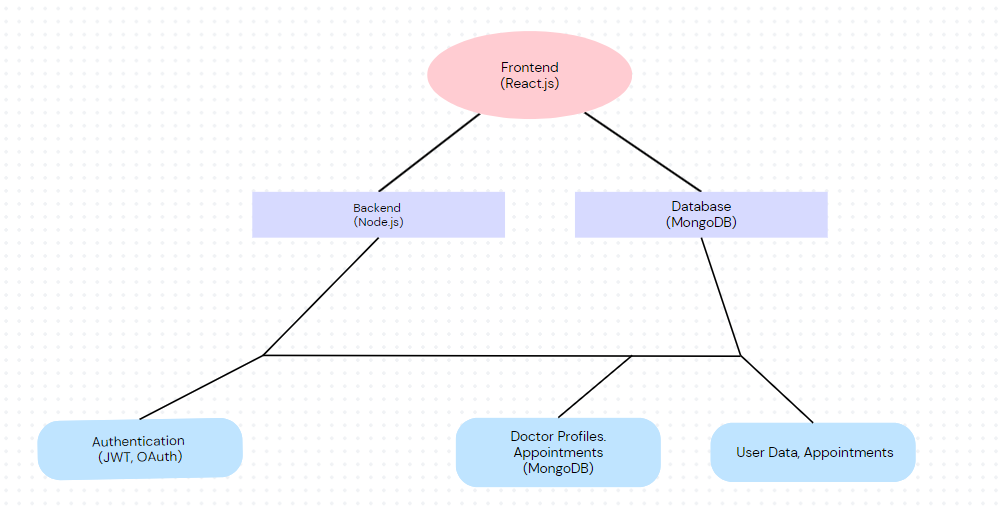
 Database**:** MongoDB stores user data, doctor profiles, appointments, and related information in collections structured to support the application's functionality.

 Authentication**:** Implemented using JSON Web Tokens (JWT) for secure user authentication and session management.

 APIs**:** RESTful APIs facilitate communication between the frontend and backend, ensuring seamless data exchange and application functionality.

 Deployment**:** Frontend deployed on a static file server for efficiency, while the backend and database are hosted on scalable cloud platforms to ensure reliability and performance.

**Example - Solution Architecture Diagram:**

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