# Documentation

Node.js

Node.js was chosen as it allows for server-side JavaScript execution, providing a unified language for both frontend and backend development. Its non-blocking I/O model enhances scalability and performance.

Express.js

Express.js was selected as it is a minimalist and flexible framework for building web applications and APIs in Node.js. Its simplicity streamlines development and enables rapid prototyping.

MongoDB

MongoDB was preferred for its NoSQL document-oriented database structure, which is well-suited for handling unstructured data and scalable applications. Its schema-less design offers flexibility and agility in data modeling.

MongoDB Atlas

MongoDB Atlas was chosen for database hosting due to its managed cloud service, offering features like automated backups, monitoring, and scalability. It simplifies database management and ensures high availability.

React.js

React.js is a popular choice for frontend development due to its component-based architecture, which promotes reusability and maintainability of code. It also offers virtual DOM rendering for efficient updates, enhancing performance in complex user interfaces.

MERN stack

These technologies collectively form the MERN stack (MongoDB, Express.js, React.js, Node.js), known for its efficiency in developing full-stack web applications. Node.js and Express.js handle the backend, MongoDB manages data storage, and React.js can be used for frontend development, providing a comprehensive and modern development environment.