**Darshan Ease Project Documentation**

**Project Overview:**

Darshan Ease is a Full Stack web application designed to streamline the process of booking special darshan tickets for temples. The platform provides a convenient and user-friendly interface for devotees to book tickets for various darshan slots offered by temples, ensuring a smooth and hassle-free experience.

The primary purpose of Darshan Ease is to enhance the experience of booking special darshan tickets by providing a centralized platform that simplifies the process for devotees. It aims to:

**Facilitate Easy Access**: Allow devotees to easily find and book special darshan slots at various temples without the need for physical visits or lengthy procedures.

**Improve Management**: Help temples manage darshan schedules and bookings more effectively, ensuring a better experience for all visitors.

**Enhance Devotee Experience**: Offer a reliable and user-friendly service that enhances the overall experience of temple visits for devotees.

**Key Features:**

**Temple Listings**: Detailed information about each temple, including location, timings, and special darshan details.

**Darshan Slot Booking**: View available darshan slots for various dates and times. Real-time slot availability updates. Easy booking process with a few clicks.

**User Authentication**: Secure registration and login functionality. User authentication to ensure secure access to booking features.

**Booking Confirmation**: Instant confirmation of bookings. E-ticket generation for booked darshan slots.

**Payment Integration**: Secure payment gateway for online ticket booking.

**Admin Dashboard**: Administrative access for temple management to update slot availability. View and manage all bookings and user interactions. Analytics and reports on booking trends and user activity.

**Technologies Used:**

**Backend:**

**Node js:** JavaScript runtime environment for building scalable server-side applications.

**Express.js:** Web application framework for Node.js. Simplifies the creation of robust APIs and web servers.

**MongoDB:** NoSQL database for storing and managing application data.

**Frontend:**

**React:** JavaScript library for building user interfaces.

**Additional Tools and Libraries:**

**Axios:** Promise-based HTTP client for making API requests. Simplifies communication between frontend and backend.

**Development and Build Tools:**

**Nodemon:** Utility that automatically restarts the Node.js server on file changes during development.

**Prerequisites:**

**Development Environment:**

**Node js:** JavaScript runtime environment required to run server-side code. Download Nodejs.

**npm (Node Package Manager**): Package manager for Node.js. Command: npm install.

**MongoDB:** NoSQL database for storing application data. Download MongoDB.

**MongoDB Compass:** GUI for managing MongoDB databases**.** Download MongoDB compass.

**Code Editor:**

**Visual Studio Code(VS Code):** Popular code editor with support for JavaScript and Node.js. Download VS code.

**Development and Build Tools:**

**Nodemon:** Utility that automatically restarts the Node.js server on file changes.

**Project Structure:**

**Backend (Node.js & Express.js)**:

**node.js**: Entry point of the backend server.

**config/**: Configuration files (e.g., database connection).

**models/**: Mongoose models.

**routes/**: API routes.

**controllers/**: Request handling logics.

**Frontend (React):**

**src/:** Main source directory**.**

**components/:** Reusable UI components.

**styles/:** CSS or styled-components.

**API Documentation:**

**Authentication:**

**POST /api/auth/register:** Register a new user.

**POST /api/auth/login:** User login.

**User:**

**GET /api/users:** Get all users.

**GET /api/users/:id:** Get user by ID.

**PUT /api/users/:id:** Update user by ID.

**DELETE /api/users/:id:** Delete user by ID.

**Acknowledgement:**

Lastly, we acknowledge all the open-source projects and developers whose work has inspired us and provided a foundation for the development of Darshan Ease. Your contributions to the developer community are greatly appreciated.

Thank you all for your support and contributions to the Darshan Ease project!