Chronicle Travel Journal Web App

Frontend Architecture

Technology Stack:

- React: Library for building UI components.
- Next.js: Framework for server-rendered React apps.
- Node.js: JavaScript runtime for backend development.
- npm: Package manager for managing project dependencies.
- TypeScript: Superset of JavaScript for static typing.
- Redux: State management library for React apps.
- HTML5: Markup language for structuring web pages.
- Google Places Autocomplete: Location search and autocomplete functionality.
- Leaflet Maps: Lightweight mapping library for interactive maps.
- TailwindCSS: Utility-first CSS framework for styling.
- heroicons: SVG icons library for web applications.

Deployment:

- Vercel: Hosts and deploys frontend applications.

Backend Architecture

Technology Stack:

- JavaScript: Programming language for server-side logic.
- Node.js: JavaScript runtime for backend development.
- Express.js: Web application framework for Node.js.
- Mongoose: MongoDB object modeling for Node.js.
- Passport.js: Authentication middleware for Node.js.
- Bcrypt: Library for password hashing.
- Dropbox: Cloud storage API for file handling.

Backend Deployment

- Cyclic.sh: Hosting solution for backend servers.

Database Architecture

Technology:

- MongoDB: NoSQL database for data storage.

- Mongoose: MongoDB object modeling for Node.js.

Integration and Deployment

Frontend Deployment:

- Vercel: Hosts and deploys frontend applications.

Backend Deployment:

- Cyclic.sh: Hosts and deploys backend servers.