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Tech Stack

Back-end

* Nodejs
* Express
* MongoDB

Front-end

* React
* Vite

Architecture

Back-end

The main folder structure for the backend is:

* Models
* Controllers
* Data
* Routes
* Public
* Utils

Front-end

The main folder structure for the frontend is:

Back-end packages

NPM Packages installed

* express: framework for APIs
* body-parser: parse data
* cors: cross origin resource sharing
* helmet: protect APIs
* morgan: logging API calls
* mongoose: handle mongoDB calls
* dotenv: environment variables

Development packages

* nodemon: live server reload

Front-end packages

NPM packages installed

* react-redux: state management
* @reduxjs/toolkit: simplifies the use of redux
* react-datepicker: date picker range
* react-router-dom@6: navigation
* UI material:
  + @mui/material
  + @emotion/reacti
  + @emotion/styled
  + @mui/icon-material
  + @mui/x-data-grid
* Nivo:
  + @nivo/cor
  + @nivo/bar
  + @nivo/geo
  + @nivo/pie

Development packages

* Vite