

Project Tutorials and Documentation

The project is built using Flask, React, and NodeJS. The following is a guide to all of the packages used and tutorials followed when building the project.

Flask

Miguel's Flask Mega-Tutorial

This tutorial provides a basic framework to construct a simple web application using Flask and Python.

<https://blog.miguelgrinberg.com/post/the-flask-mega-tutorial-part-i-hello-world>

This tutorial provides a basic example of creating a Flask and React app:

<https://blog.miguelgrinberg.com/post/how-to-create-a-react--flask-project>

Neo4J and Flask

This tutorial provides an overview of how to write a Flask application using a Neo4J database.

<https://neo4j.com/developer/python-movie-app/>

React

Introduction to React

The below tutorial teaches the fundamentals of React, such as components, props, and state.

<https://reactjs.org/tutorial/tutorial.html>

The W3 schools tutorial also provides a detailed look into the foundations of React.

<https://www.w3schools.com/REACT/DEFAULT.ASP>

React Force Graph

React force graph provides the visual interface of the interactive graph database. This project uses the ForceGraph2D version. A description of the data inputs and different variations can be found on the GitHub repository.

<https://github.com/vasturiano/react-force-graph>

The link below is for the same library used, however focuses specifically on ForceGraph2D and provides some useful examples.

<https://github.com/vasturiano/force-graph>

React Table

This tutorial was followed to create the allDataTable component, where the query data is displayed in a table. The basis of this code was also used to construct the node read and link read tables.

<https://www.makeuseof.com/react-generate-table-from-json/>

React Front-end Log-In

This tutorial was followed to create the front-end login functionality. The back-end login functionality created was different to what was used in the video.

<https://www.youtube.com/watch?v=sBw0O5YTT4Q>

React PDF Renderer

This library was used to create and render the PDF generation functionality. It was used as a basis for the PDF report generation implementation.

<https://www.npmjs.com/package/@react-pdf/renderer>

React PDF Renderer - Tables

This library was used in combination with react-pdf/renderer to construct tables in the PDF reports generated.

<https://www.npmjs.com/package/@david.kucsai/react-pdf-table>

Neo4J

Py2neo

This is a client library and toolkit for working with Neo4J within the application. The handbook is supplied below.

<https://py2neo.org/2021.1/#>

JSON Data

This tutorial outlines the format of the JSON data returned.

<https://neo4j.com/docs/http-api/current/actions/result-format/>

Styling and CSS

Bootstrap

Bootstrap was used to style the website. The documentation and a tutorial can be found below.

<https://react-bootstrap.github.io/getting-started/introduction/>

<https://blog.logrocket.com/using-bootstrap-with-react-tutorial-with-examples/>

