

Creating a single page application using an epidemiology map of the Coronavirus outbreak to highlight the technology.

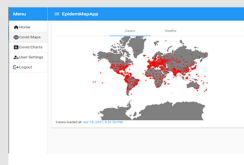
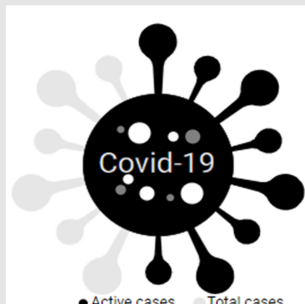
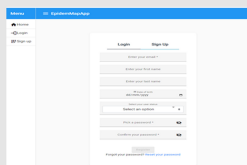
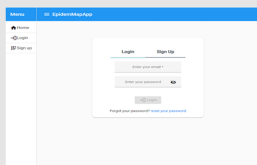
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Introduction

The aim of the project was to produce a web application that dynamically loads the content to the screen providing a more fluid experience to the user. To achieve this a single page application was developed. The project had several objectives to meet that ultimately created a full stack application. Research was conducted into the appropriate frameworks and approaches to the aim and the objectives were met through a review of literature, a case study of the covid data and experiments and software development utilizing iterative rapid prototyping.

Results

A full stack application was developed utilizing the MEAN stack. This was choice was supported through the research conducted in the literature review. The application boasts a range of features, visualizations and infographics. The features of the Angular front end are supported by a Node.js REST web service, that serves data to the front end and allows for managed login sessions through a token based authentication. A range of visualisations were implemented utilizing data from the John Hopkins university API.



Approaches and Methods

The conclusion of chapter 3 was that a positivistic and deductive approach would be followed, using software development and software experiments to find the most descriptive way of presenting the data. Experimentation will be based on designing and building the web application using iterative rapid prototyping to achieve the desired result.

Acknowledgements

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Further information

If you would like to know more, contact me at 1801338@student.uwtsd.ac.uk

Tools

Visual studio code was used as the main development environment throughout the project. Postman was used for testing the endpoints of the webservice. Firefox and Google Chrome were used for the debugging tools provided, with both having different tools available.

