CMPT 353 Final Project – Sean Bautista (spb762)

Design Report

Introduction

The design report outlines the architecture and design of a channel-based Tool for Programming issues, sort of like stack overflow. The application has a login, register, create and looks at what is inside each channel (programming question) features.

Technologies Used

Frontend: HTML, CSS, JavaScript, and React.

Backend: Node.js, Express.js

Database: MySQL

Architecture

The app is based on a client-server architecture. The client-side is made using React.js using modules "useNavigate" to direct around the app, useState & useEffect for the functions of the frontend. The server-side of the application is built using Node.js and Express.js to receive and manipulate the database to the client-side's need. The extra modules needed for this too were cookie-parser (to handle cookies), mysql (to handle SQL connection & query), and more. The application used for the database is a relational-type database, MySQL which stores user data and the channel data.