

CMPT 353 Final Project – Nandish Jha (NAJ474)

Design Report

Introduction

This design report outlines the architecture and design of the Discord Chat Web App. The application provides users with features like login, register, accounts, admin account, create and join channels, chat in channels, like or dislike a message, reply to other people's messages, and logout. The purpose of this report is to provide information about the application's design, including the technology stack, architecture, and component design.

Technology Stack

- Frontend: HTML, CSS, JavaScript, ReactJS
- Backend: Node.js, ExpressJS
- Database: SQL Server

Architecture

The Discord Chat Web App follows a client-server architecture. The client-side application is built using ReactJS, which provides a rich and responsive user interface. The server-side application is built using Node.js and ExpressJS, which provides a fast and scalable backend infrastructure. The application uses SQL Server as the database to store user data, channel data, and message data.

Conclusion

The Discord Chat Web App is built using modern web technologies and follows a scalable and maintainable architecture. The application provides a rich and responsive user interface, and the backend infrastructure is fast and scalable, making it suitable for use in production environments. The security measures implemented in the application ensure the confidentiality and integrity of user data, making it a secure platform for online messaging and communication.