CMPG323 PROJECT 2

**POSTALOT APP DOCUMENTATION**

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 **SYSTEM DESIGN AND OVERVIEW**

Thesis submitted for the degree BScin Information Technology at the North-West University

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## INTRODUCTION/SYSTEM OVERVIEW

## TECHNOLOGY STACK

Our system is built with Node.js with a React based frontend and a Loopback based API framework for the backend. Both the front and backend components are hosted on Heroku. Our PostgreSQL database is hosted on Amazon Web Services and provisioned by Heroku.

## PROJECT TEAM DYNAMICS

## TEAM DYNAMICS

### ROLES AND TEAM FUNCTIONING

We split the group into two groups, and Llewellyn built the React Frontend, while John built the Loopback Backend and setup the database.

### COMMUNICATION

Communication was done primarily over Discord through regular meetings in the TheBlankCompany Discord channel. During these meetings, planning was done, along with resolving issues with deployment along with any other issues that might have arose during development.

### SOURCE CONTROL

GitHub was used as Source Control. Because the Front and backend were hosted and developed apart from one-another, two GitHub repositories were used. A Dev branch was used for development, and successful changes were merged into the Main branches. The Main branches were linked to Heroku by means of Automatic Deployment, so that the latest successful changes were always live.

### CONTRIBUTIONS/TASKS PER MEMBER

### BENEFITS/CHALLENGES OF THE TEAM APPROACH

## ENTITY RELATIONSHIP DIAGRAM



Figure 1: Entity Relationship Diagram

## USE-CASE DIAGRAMS

## DATA FLOW DIAGRAMS

## USER MANUAL

## REFERENCES

# INTRODUCTION/SYSTEM OVERVIEW

# TECHNOLOGY STACK

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