SFWR ENG 3A04 Deliverable #3

Tutorial Number: T02

Group Number: G03

Group Members:

- Takhtar, Tarnveer (Captain)
- Hannoufa, Akram
- Patel, Aryan
- Damjanovski, Alexander
- Bradbury, Matthew

1 Introduction

This section should provide a brief overview of the entire document.

1.1 Purpose

The purpose of this document is to provide further information of the LockTalk secure messenger system architecture of which includes the state chart diagrams, sequence diagrams, and an overall detailed class diagram of the application.

This document is intended for internal stakeholders of the Locktalk application, such as project leads, contract developers, domain experts and members of the LockTalk team, including the company the application is being developed for. It is recommended that the prior two deliverables should be reviewed before reviewing this document, and any technical knowledge of any content presented in the deliverables will aid in understanding of the document.

1.2 System Description

The system will use a combination of Model-View-Controller (MVC) and repository style architecture. Deliverable 2 provides the system overall structure with an analysis class diagram, an overview of the architectural design, as well as all the class responsibilities.

The LockTalk system functions with 5 main controllers, each responsible for the key aspects of the system's functionalities. These interacting components are Chat, Account, Authentication, and Geofencing Management, as well as Key Information. These main controllers provide LockTalk's core functionalities along with their related classes and DBs.

1.3 Overview

Each section in this document is solely dedicated to one chart/diagram type. In section 2, you will find state charts for controller classes, section 3 contains sequence diagrams based off of relevant business events, and section 4 provides a detailed class diagram.

2 State Charts for Controller Classes

This section should provide a state chart for each controller class for your application.

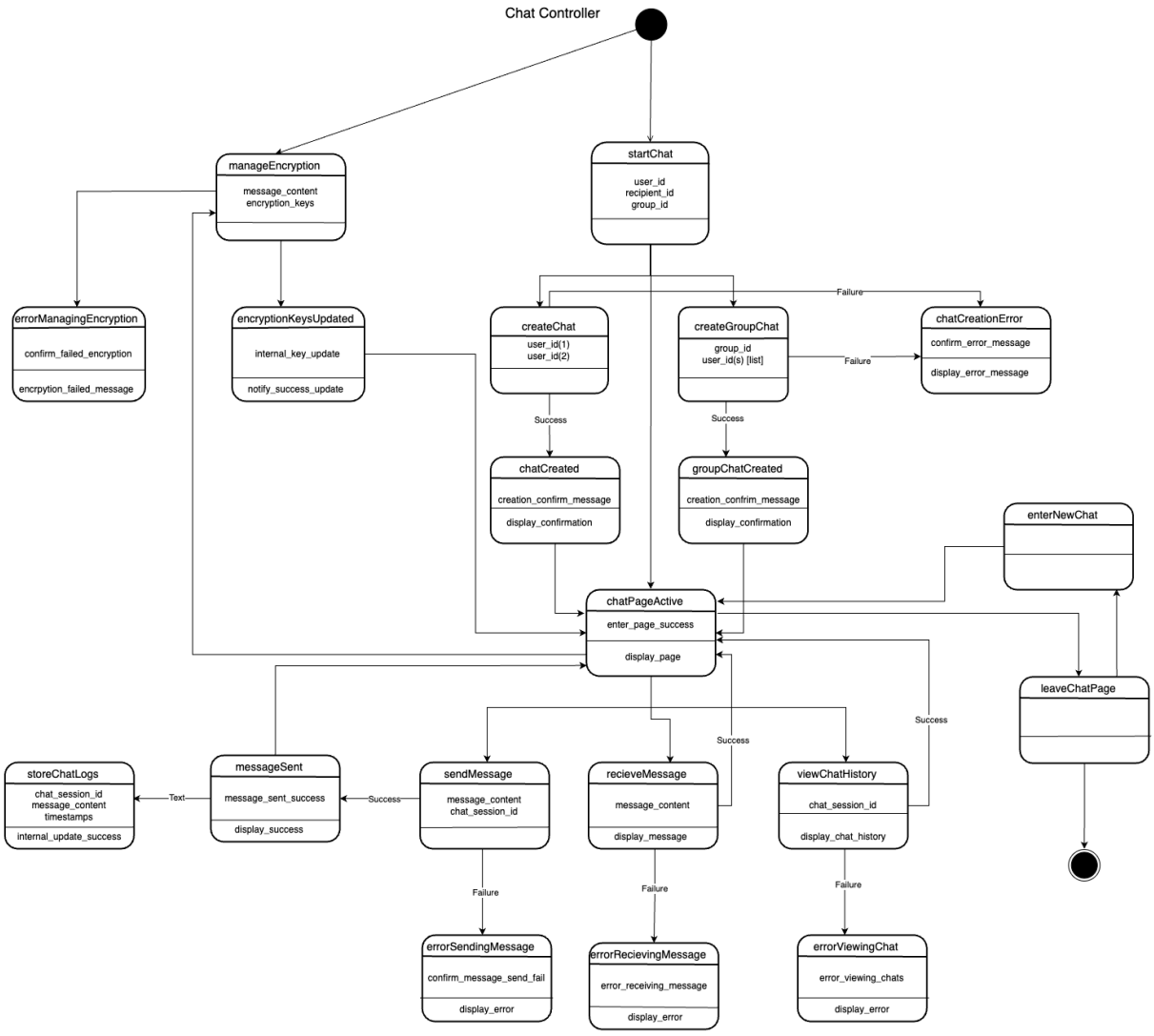


Figure 2.1 Chat Controller

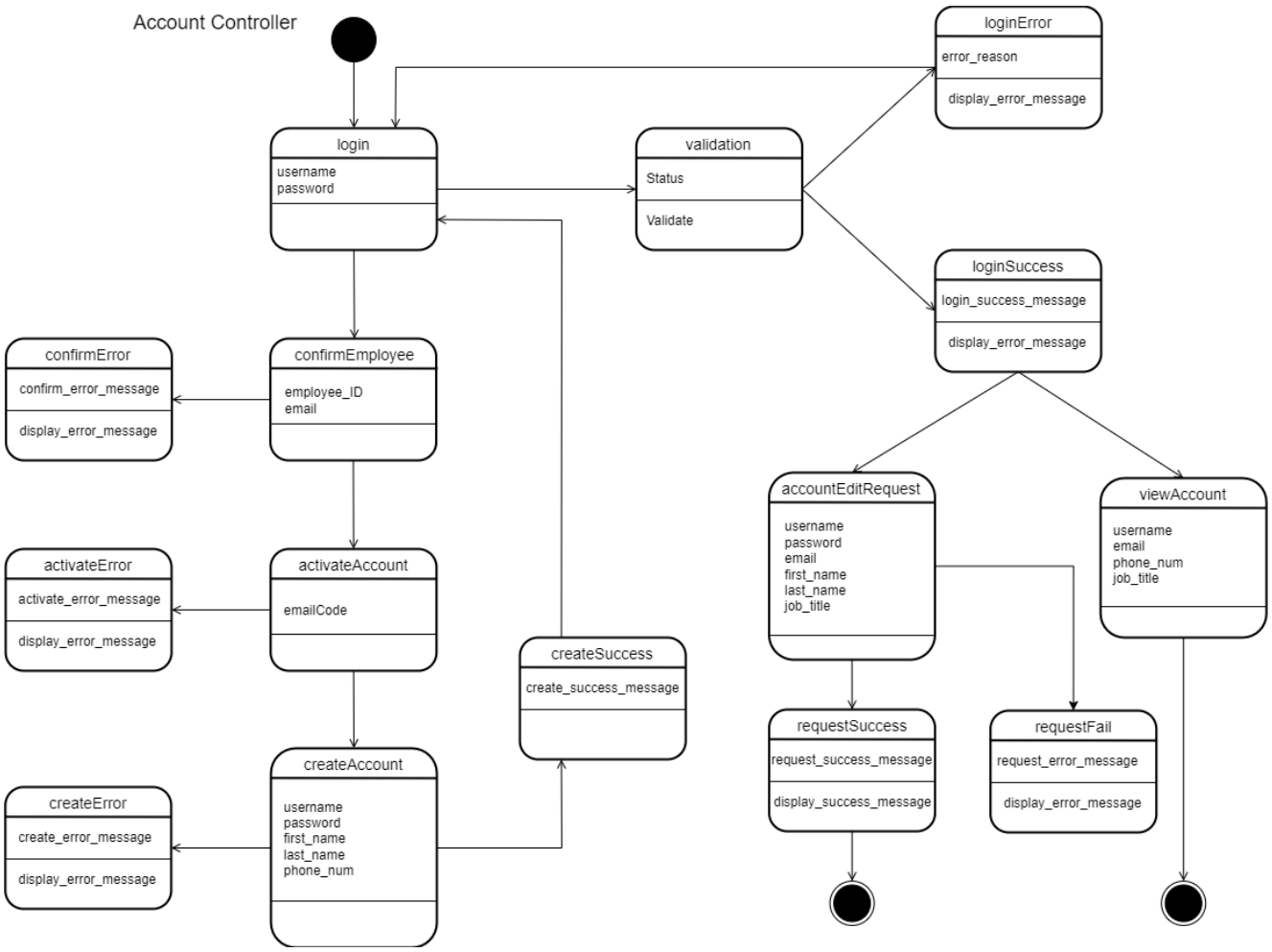


Figure 2.2 Account Controller

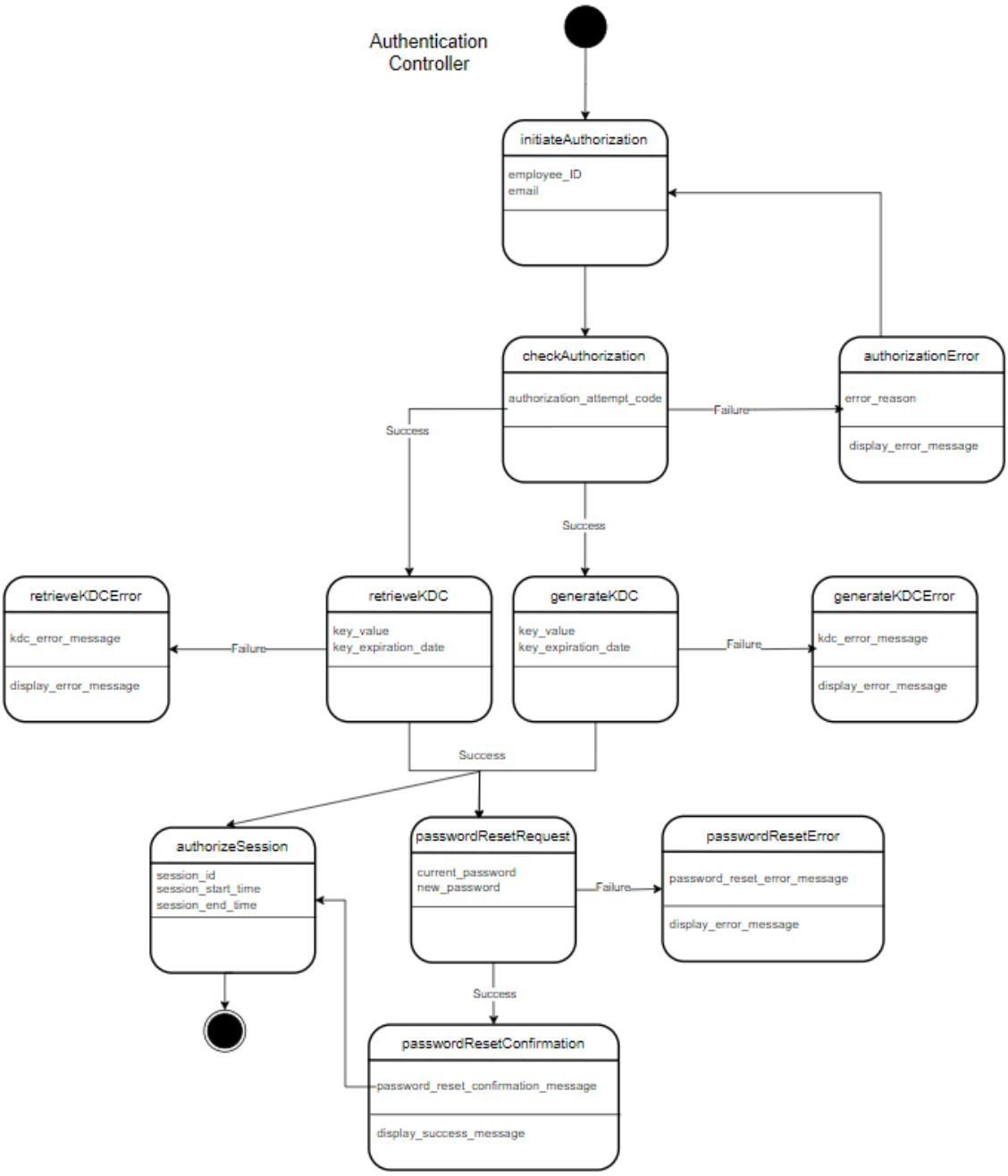


Figure 2.3 Authentication Controller

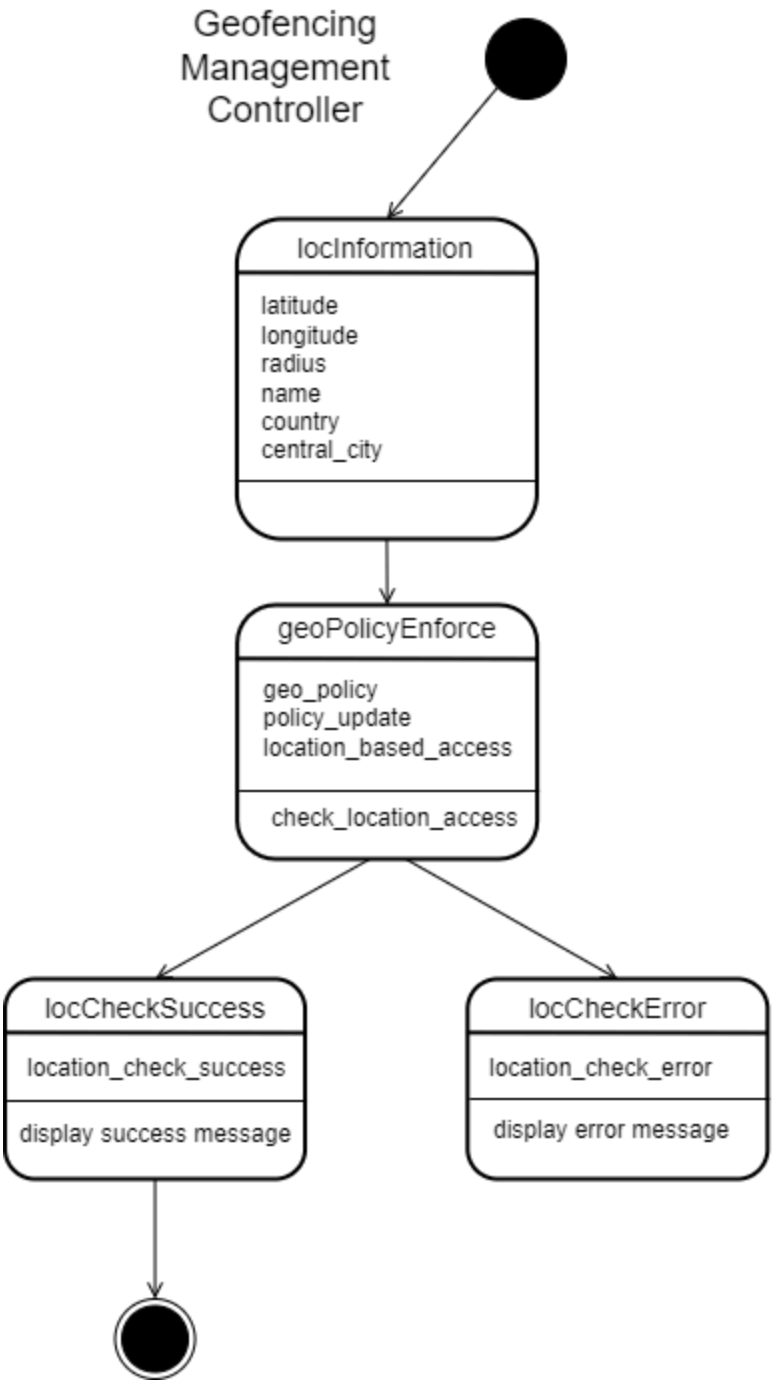


Figure 2.4 GeoFencing Controller

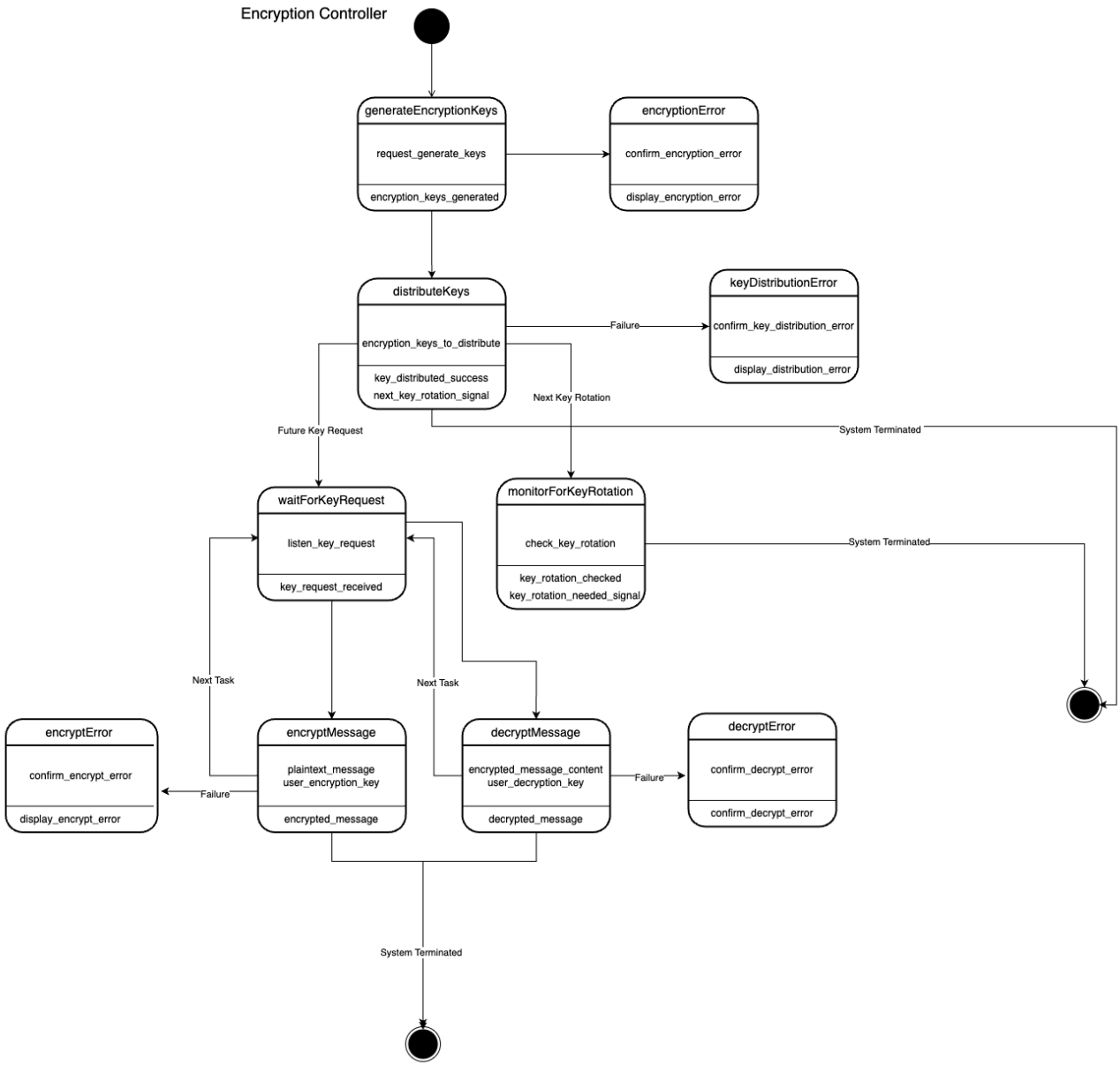


Figure 2.5 Encryption Controller

3 Sequence Diagrams

This section should provide a sequence diagram for each use case of your application.

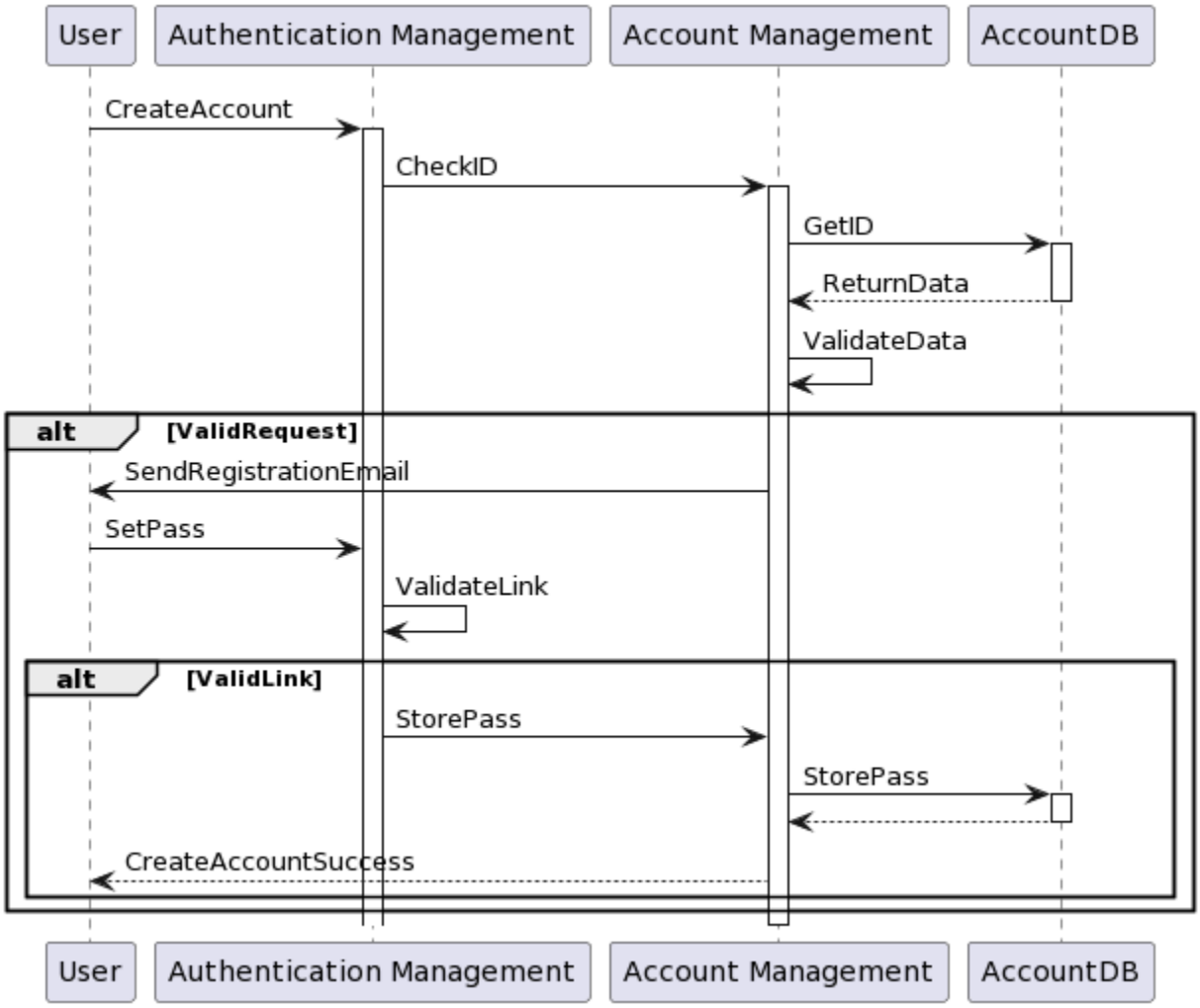


Figure 3.1 Create Account

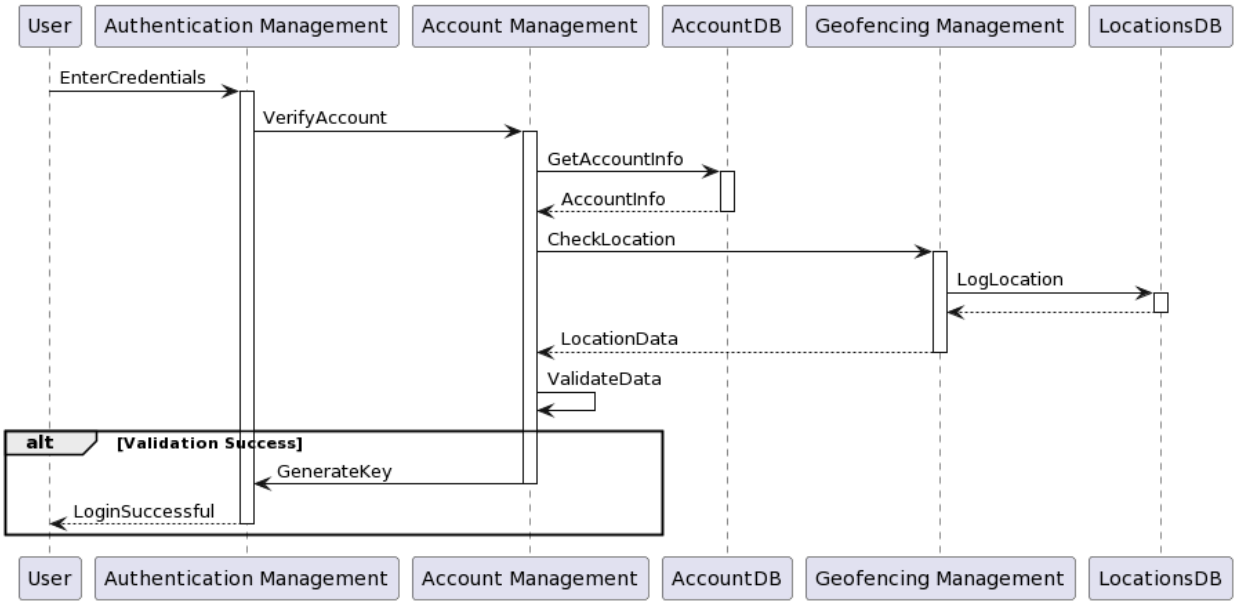


Figure 3.2 Login

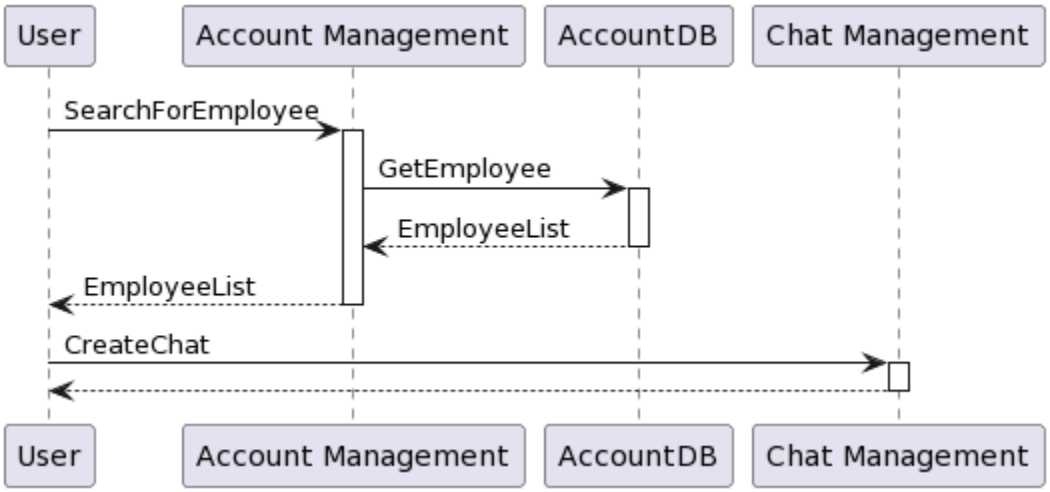


Figure 3.3 Start a New Conversation with an Employee

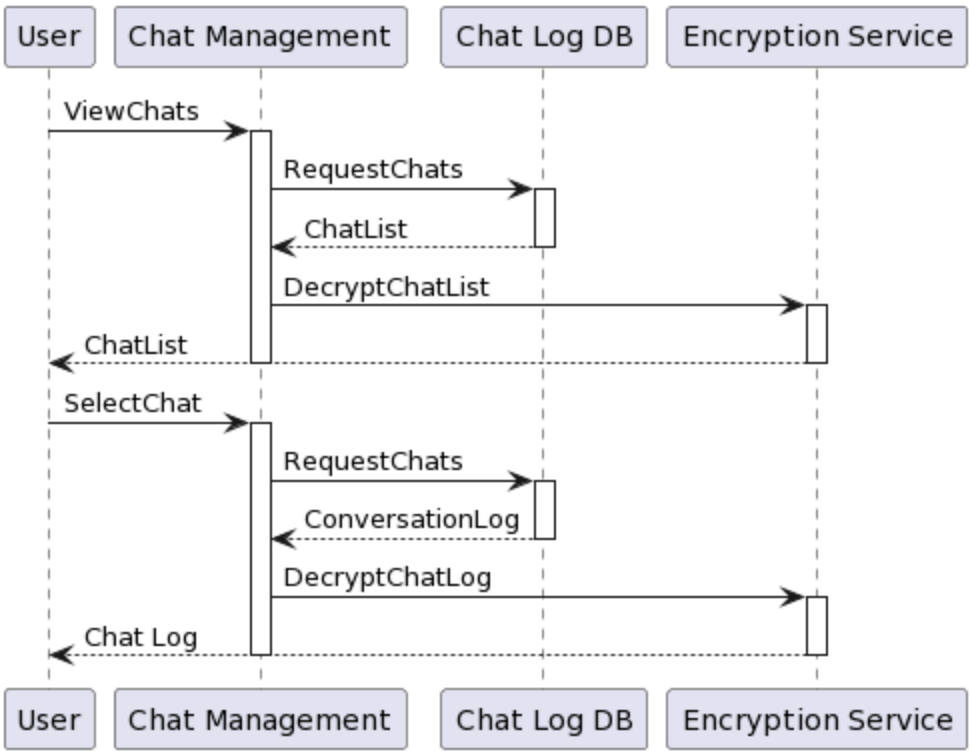


Figure 3.4 Access an Existing Conversation with an Employee

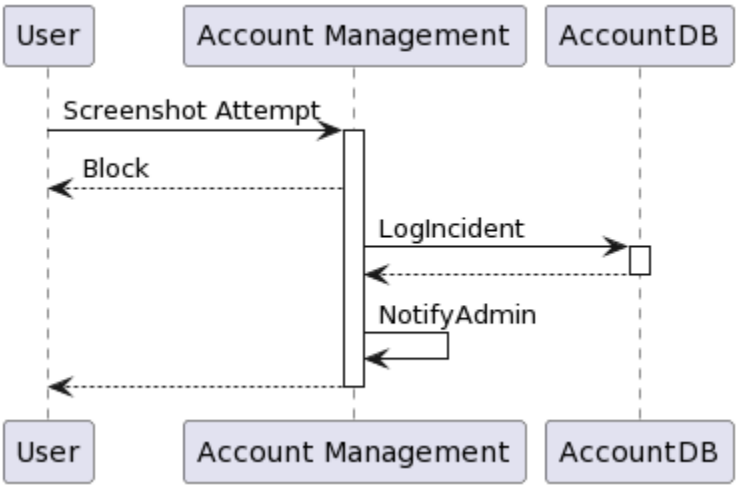


Figure 3.5 Attempt Screenshot of App

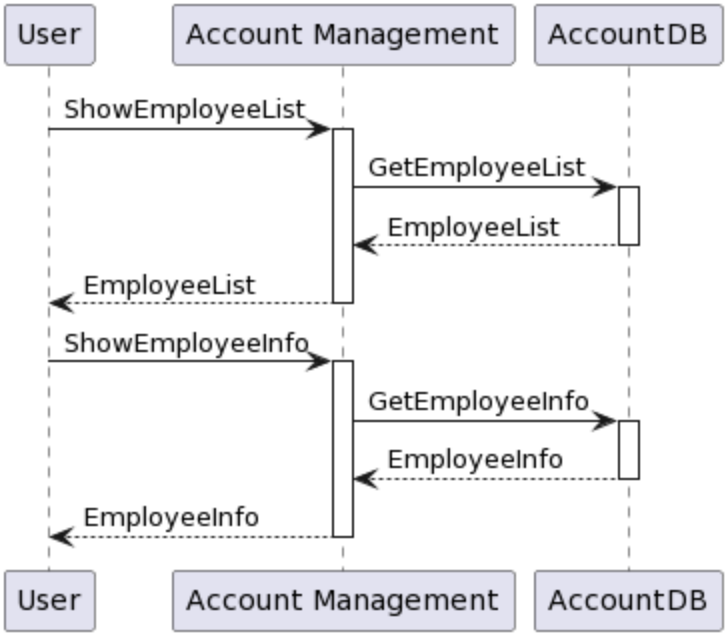


Figure 3.6 Search Directory

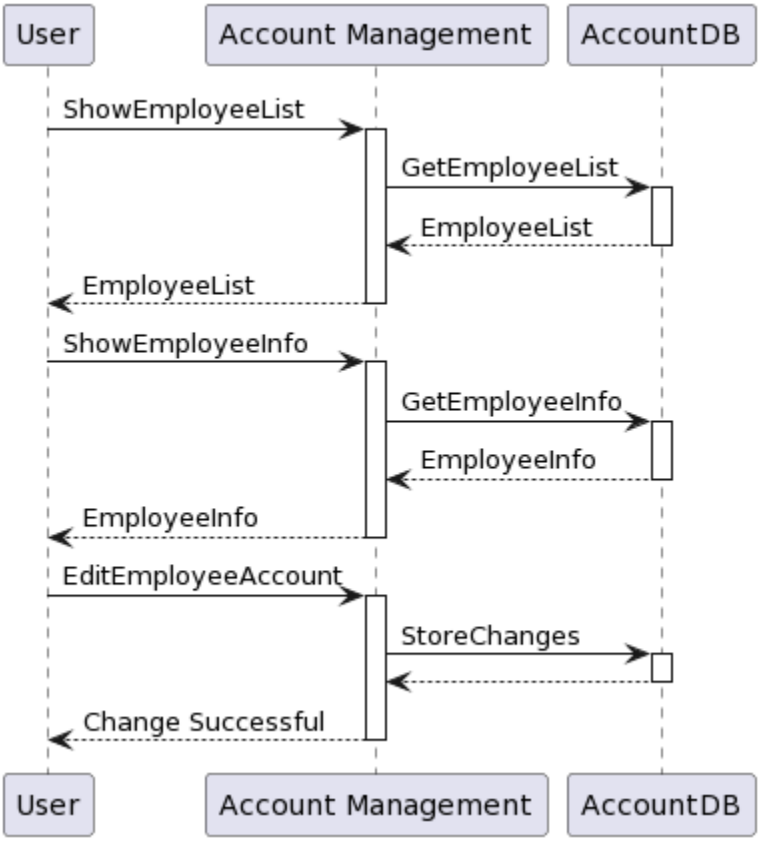


Figure 3.7 Edit Account Details

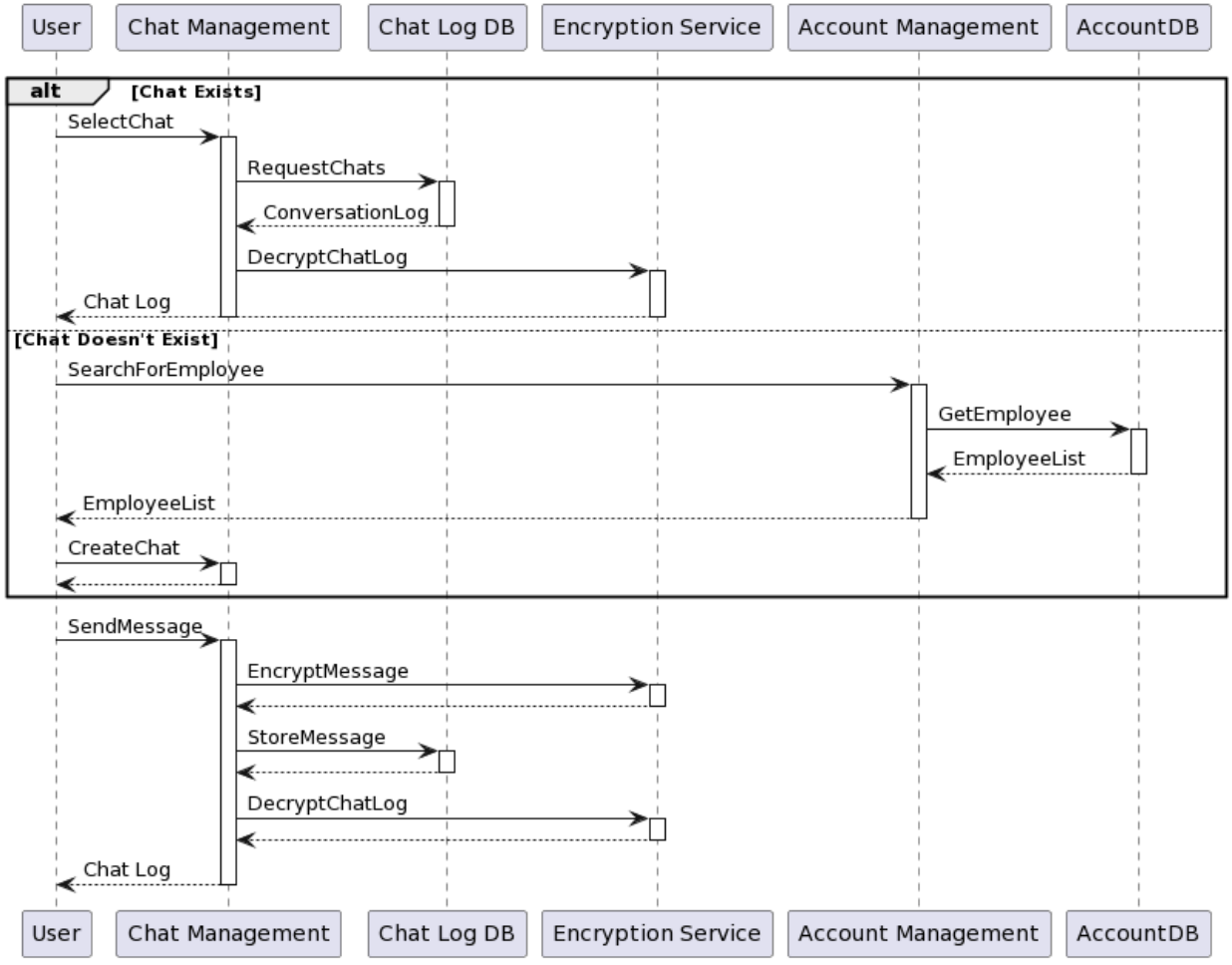
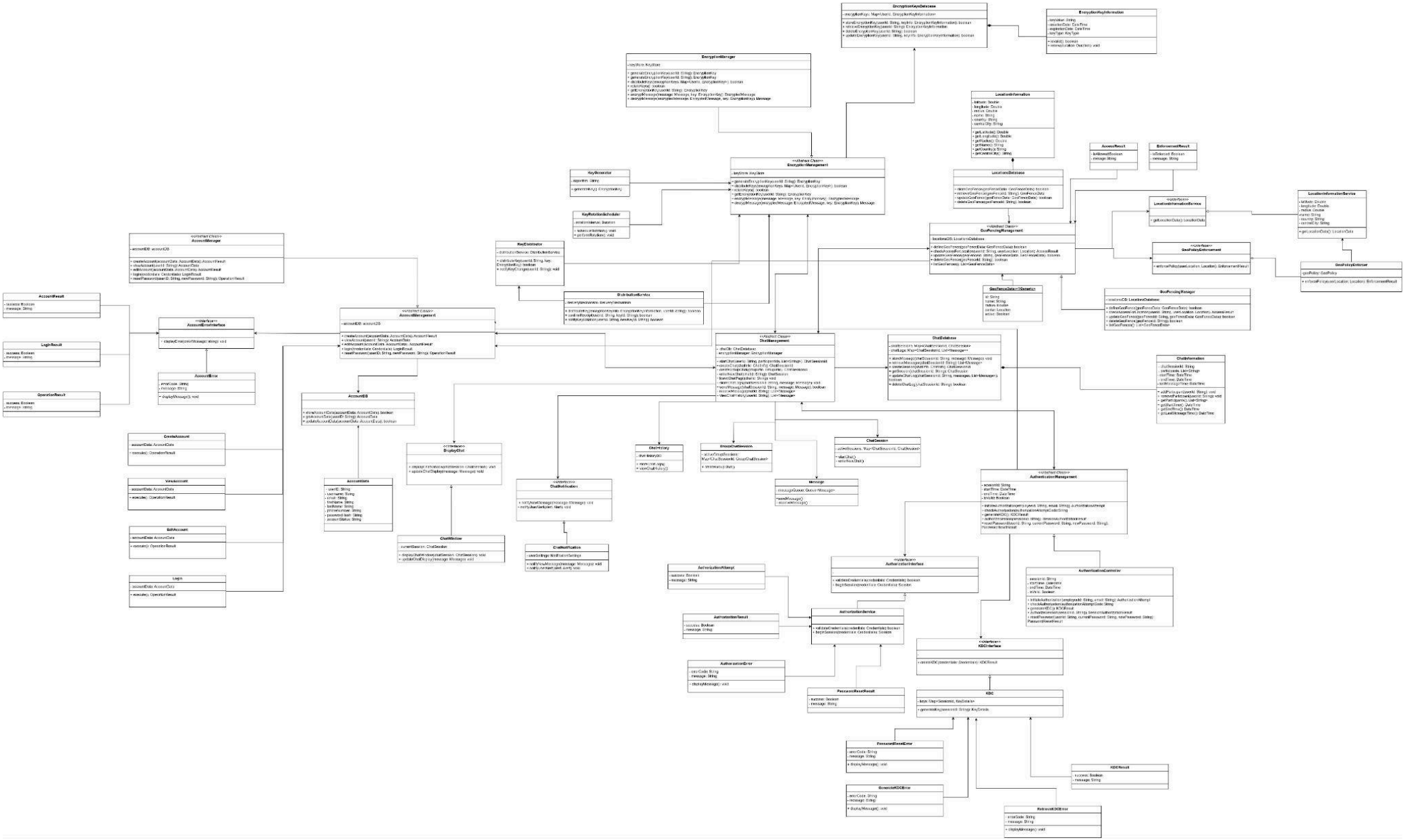


Figure 3.8 Send Message

4 Detailed Class Diagram (Full Res Attached in Submission)

This section should provide a detailed class diagram for your application.



A Division of Labour

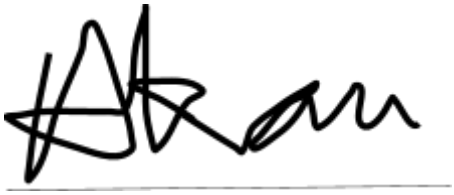
Include a Division of Labour sheet which indicates the contributions of each team member. This sheet must be signed by all team members.

Patel, Aryan

- Section 2 State Chats
    - Chat Controller
    - Encryption Controller
- Section 4 Detailed Class Diagram
- Updated Section 1

Hannoufa, Akram

- Section 1.2: System Description
- State Chart: Authentication Controller
- Section 4 Detailed Class Diagram



Takhtar, Tarnveer

- Section 1.1
- Section 3
- Formatting Edits, and final overview

Damjanovski, Alexander

- Section 2 (Account Management Controller, Geofencing Controller)
- Section 4
- Formatting, edits, final overview

Bradbury, Matthew

- Section 3

IMPORTANT NOTES

• You do NOT need to provide a text explanation of each diagram; the diagram should speak for itself

• Please document any non-standard notations that you may have used

  – *Rule of Thumb*: if you feel there is any doubt surrounding the meaning of your notations, document them

• Some diagrams may be difficult to fit into one page

  – It is OK if the text is small but please ensure that it is readable when printed

  – If you need to break a diagram onto multiple pages, please adopt a system of doing so and throughly explain how it can be reconnected from one page to the next; if you are unsure about this, please ask me

• Please submit the latest version of Deliverable 1 and Deliverable 2 with Deliverable 3

  – They do not have to be a freshly printed versions; the latest marked versions are OK

- If you do NOT have a Division of Labour sheet, your deliverable will NOT be marked