

Deliverable #3 Template

SE 3A04: Software Design II – Large System Design

Tutorial Number: T03

Group Number: G06

Group Members:

- Virochaan Ravichandran Gowri
- Alex Yoon
- Noah Goldschmied
- Krish Dogra
- Leo Vugert

1 Introduction

1.1 Purpose

This document provides a more detailed look into the implementation details of the VanklComm application. The document contains state chart diagrams, sequence diagrams, and a detailed class diagram of the system.

The intended audience of the document are the stakeholders of VanklComm, which includes the developers, managers, investors, and any domain experts used for consulting. Deliverables 1 and 2 should be read prior to this document to ensure proper context for the project, and some technical knowledge is beneficial in order to properly read the diagrams seen in this document.

1.2 System Description

An in depth overview of the system can be found in Deliverable 2. This document is a supplementary to Deliverable 2, and it provides more details to the system in the form of state charts, sequence diagrams and a class diagram.

1.3 Overview

This document contains many types of charts/diagrams. In section 2, there are state chart diagrams for every controller class that is found in the ACD in Deliverable 2. In section 3, there are relevant sequence diagrams to the system, and in section 4 there is a detailed class diagram which describes the architecture of the system.

2 State Charts for Controller Classes

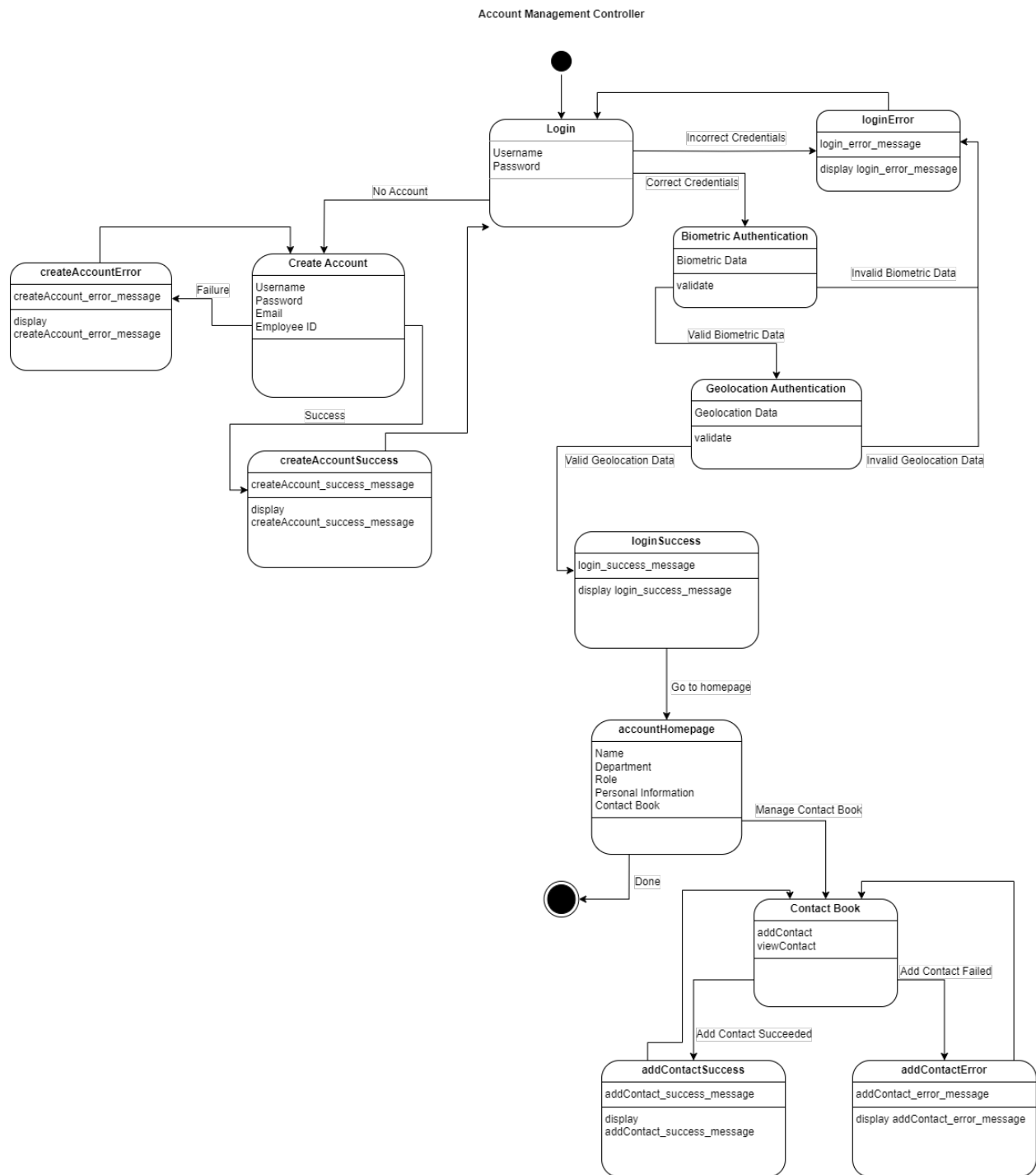


Figure 2.1 Overall Account Management Controller State Diagram

A more zoomed in view can be found in figures 2.1.1, 2.1.2, and 2.1.3.

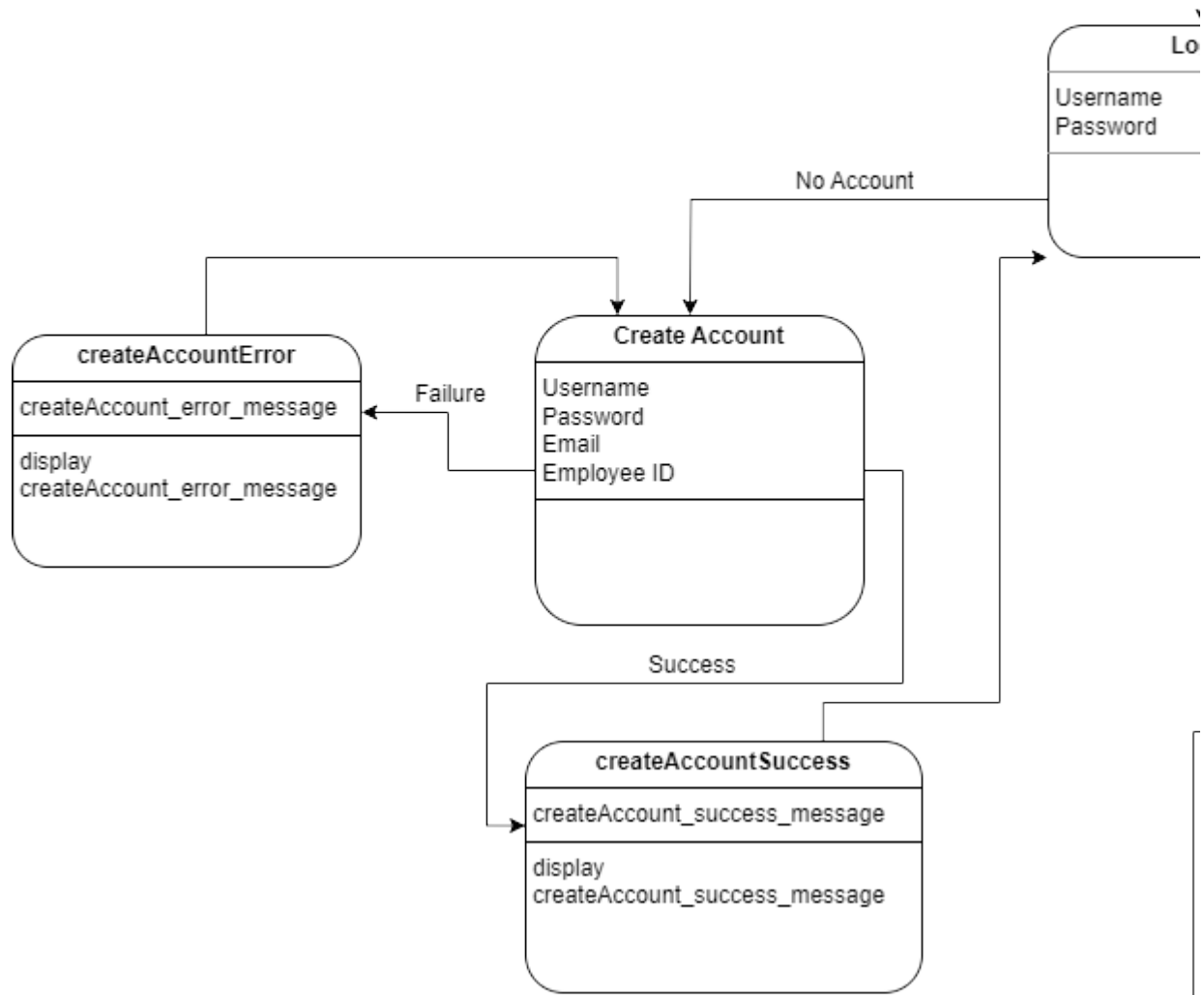


Figure 2.1.1 Top Left of the Account Management Controller State Diagram

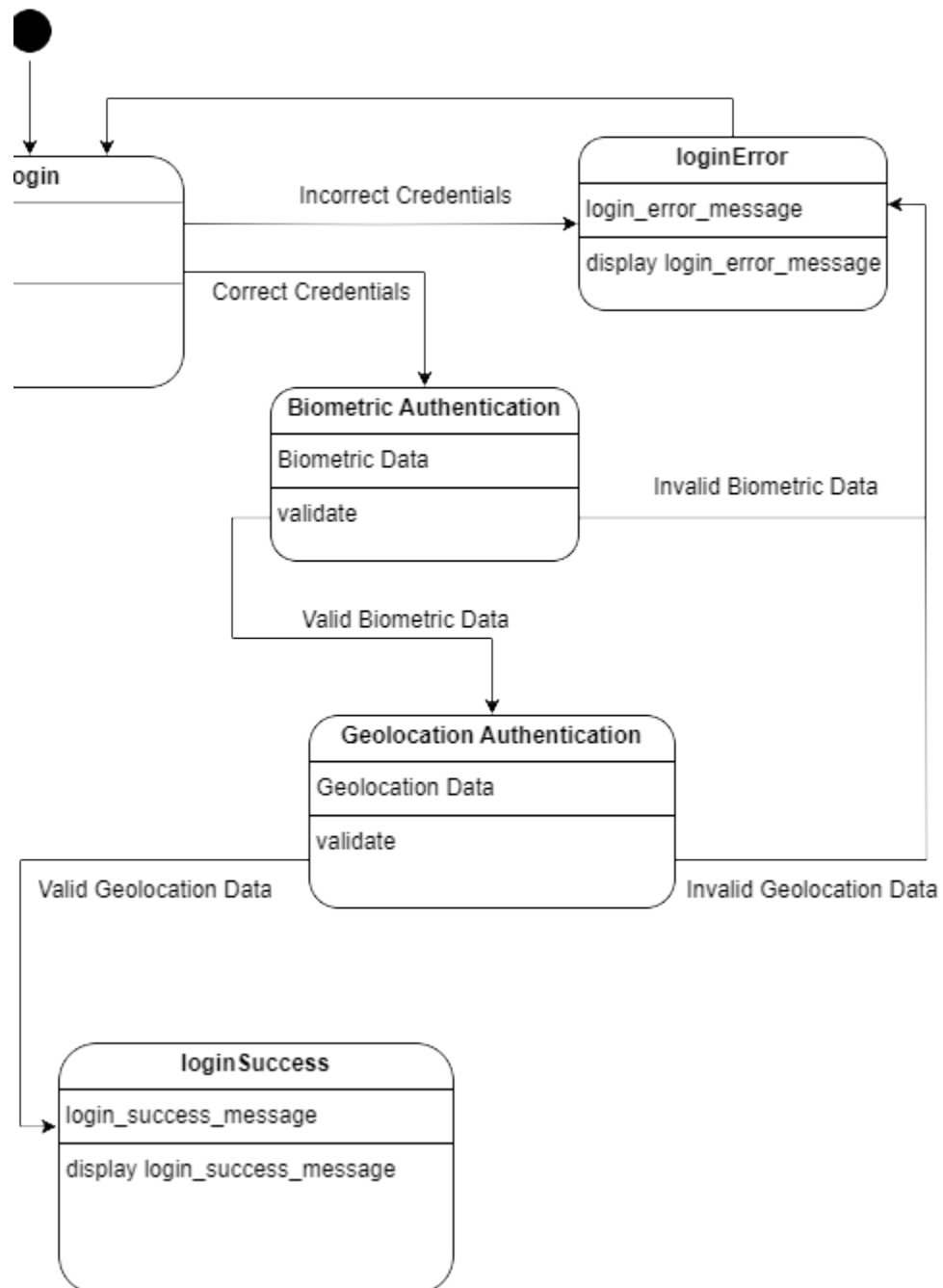


Figure 2.1.2 Top Right of the Account Management Controller State Diagram

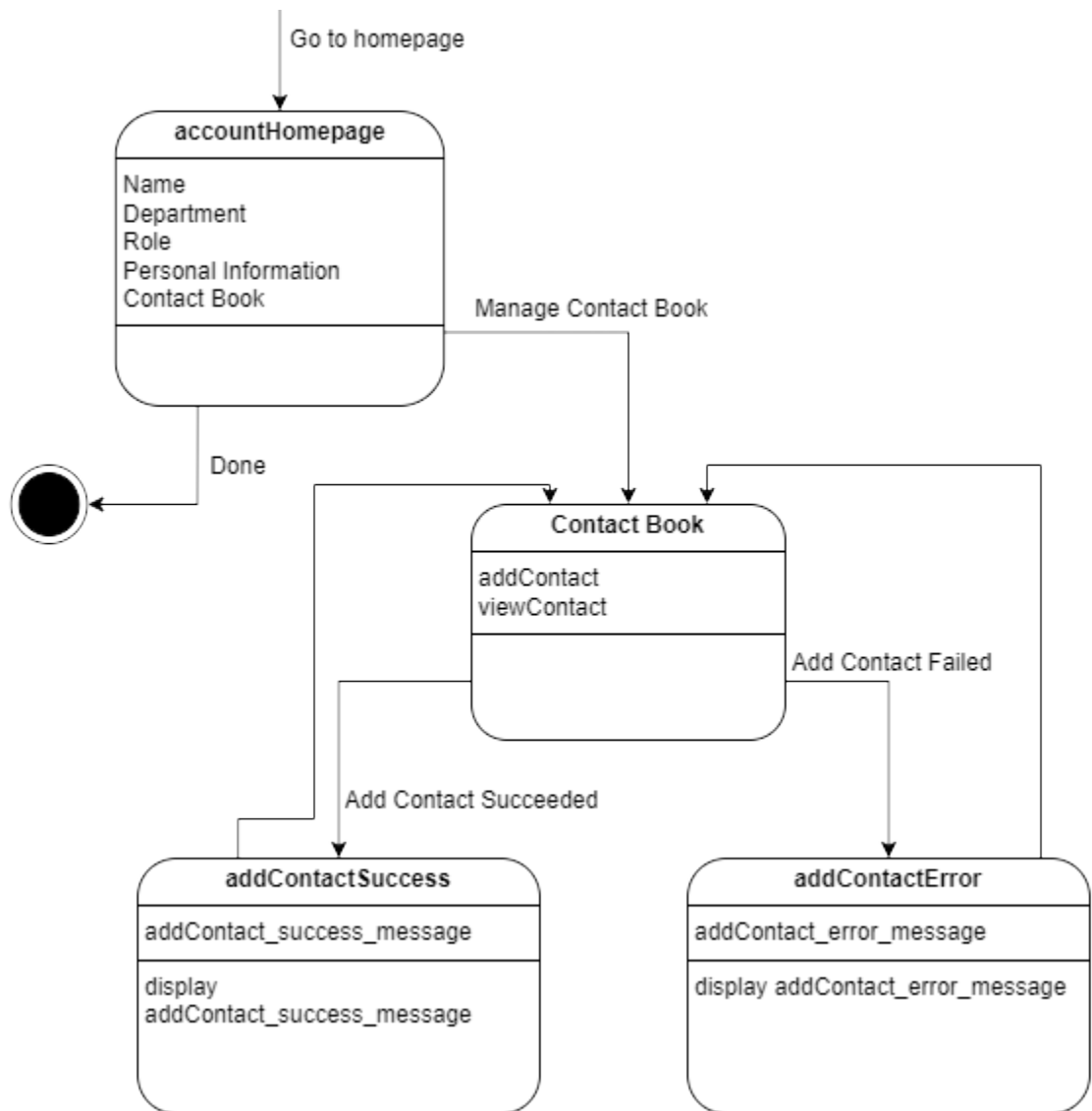


Figure 2.1.3 Bottom of the Account Management Controller State Diagram

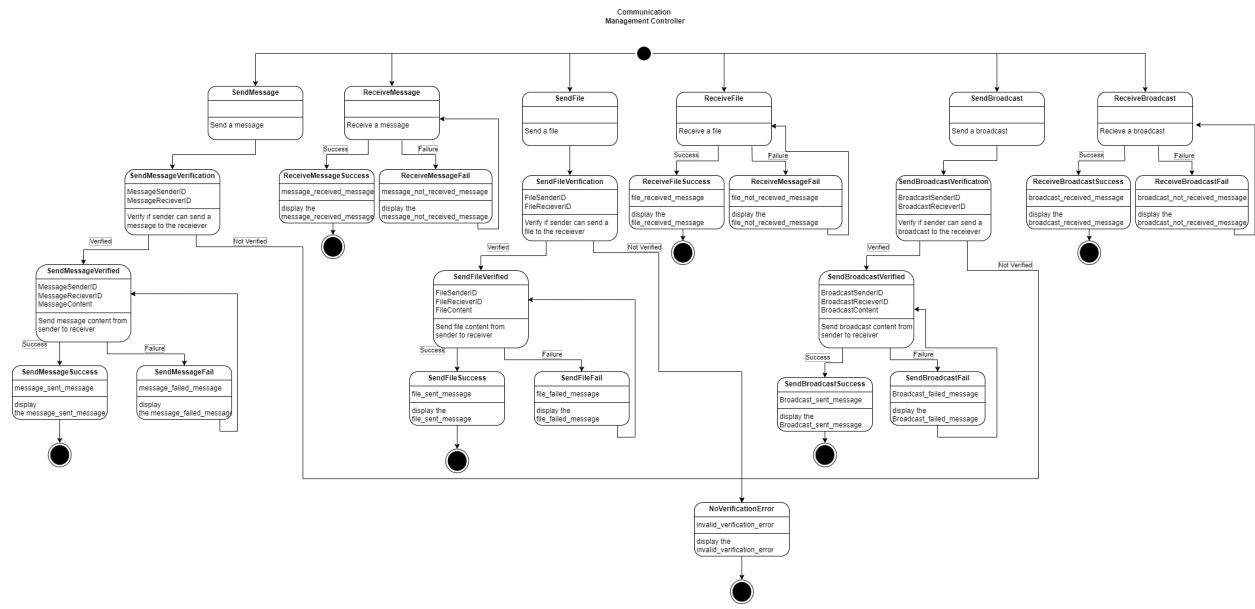


Figure 2.2 Overall Controller Management Controller State Diagram

A more zoomed in view can be found in figures 2.2.1, 2.2.2, 2.2.3, and 2.2.4.

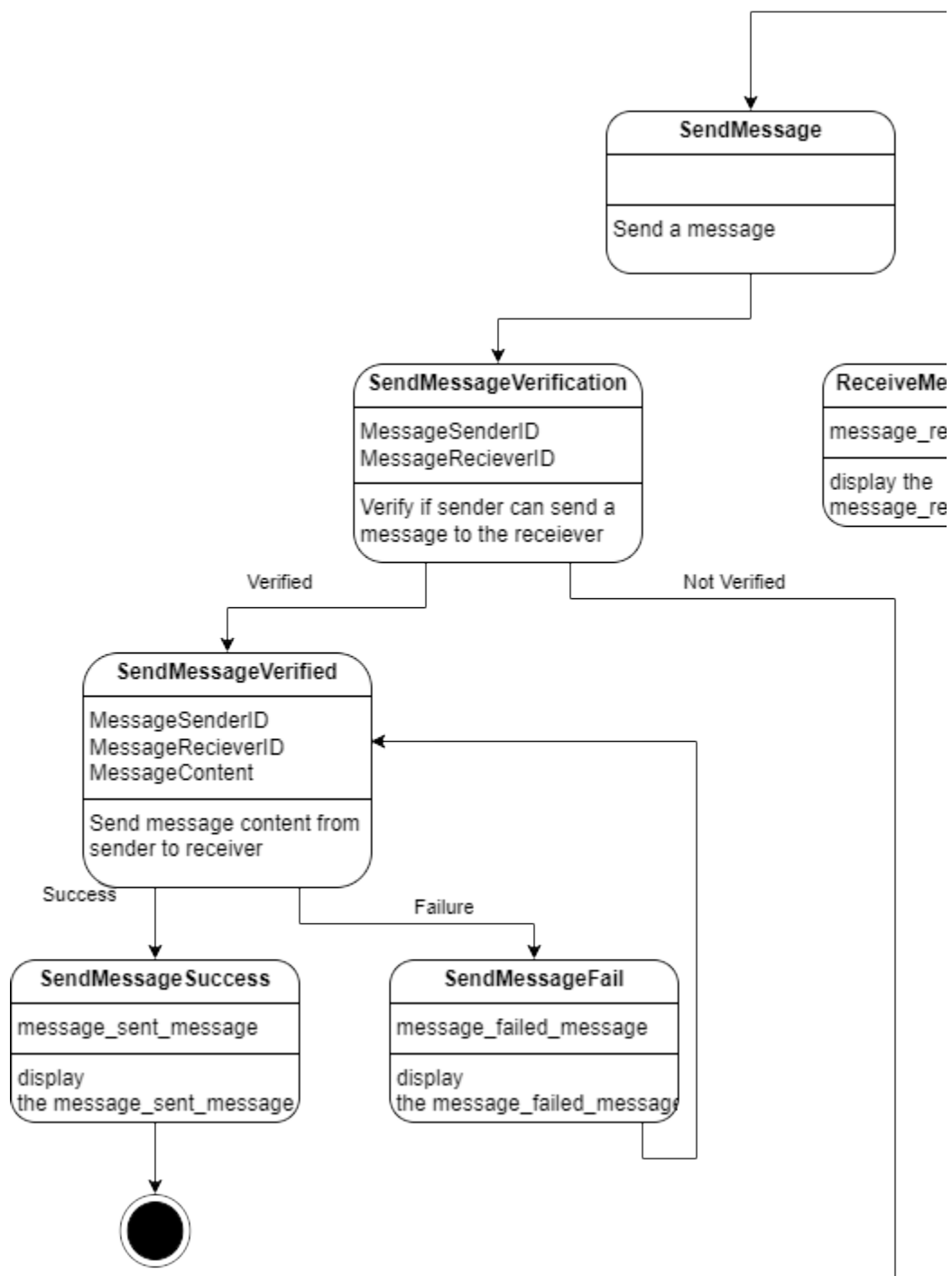


Figure 2.2.1 Left of the Controller Management Controller State Diagram

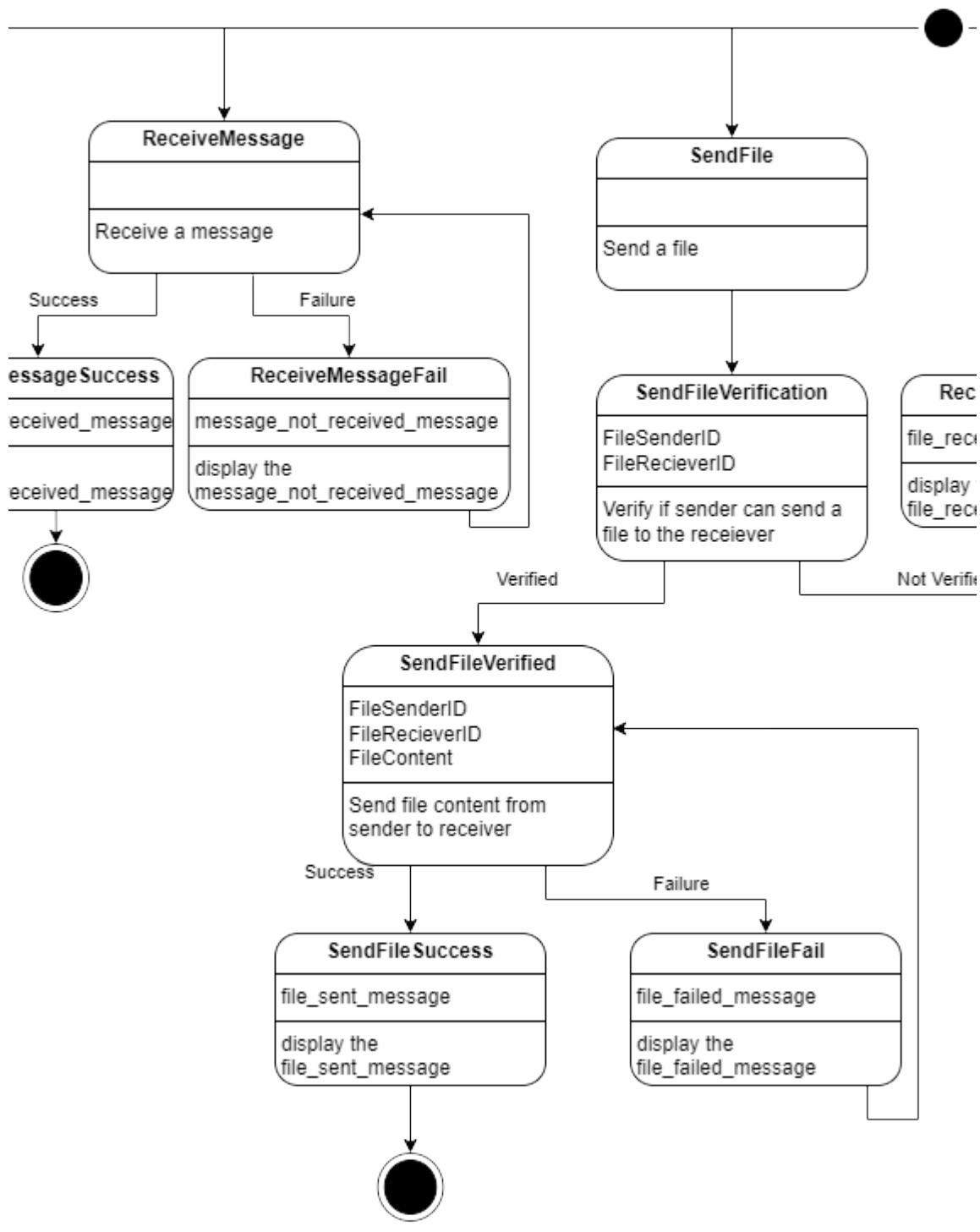


Figure 2.2.2 Middle Left of the Controller Management Controller State Diagram

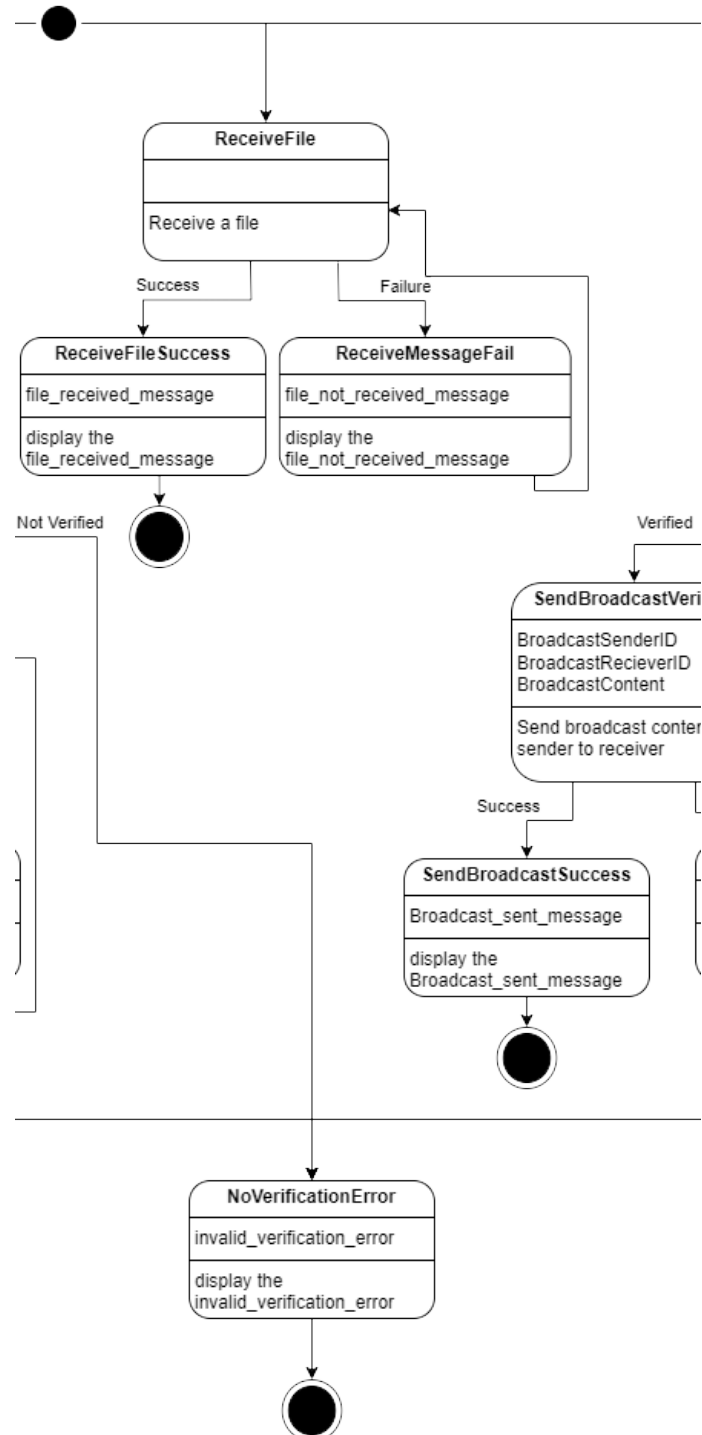


Figure 2.2.3 Middle Right of the Controller Management Controller State Diagram

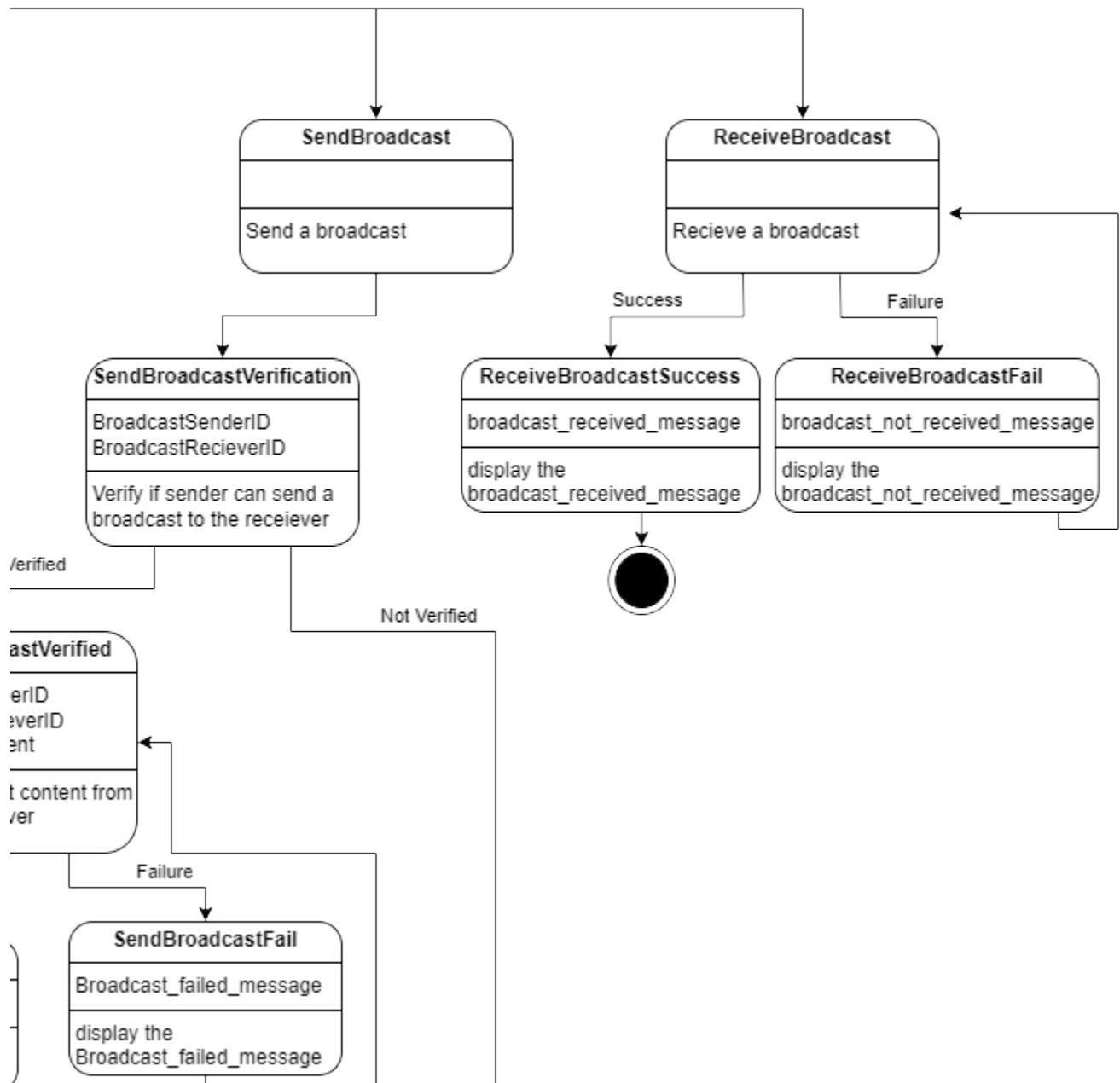


Figure 2.2.4 Right of the Controller Management Controller State Diagram

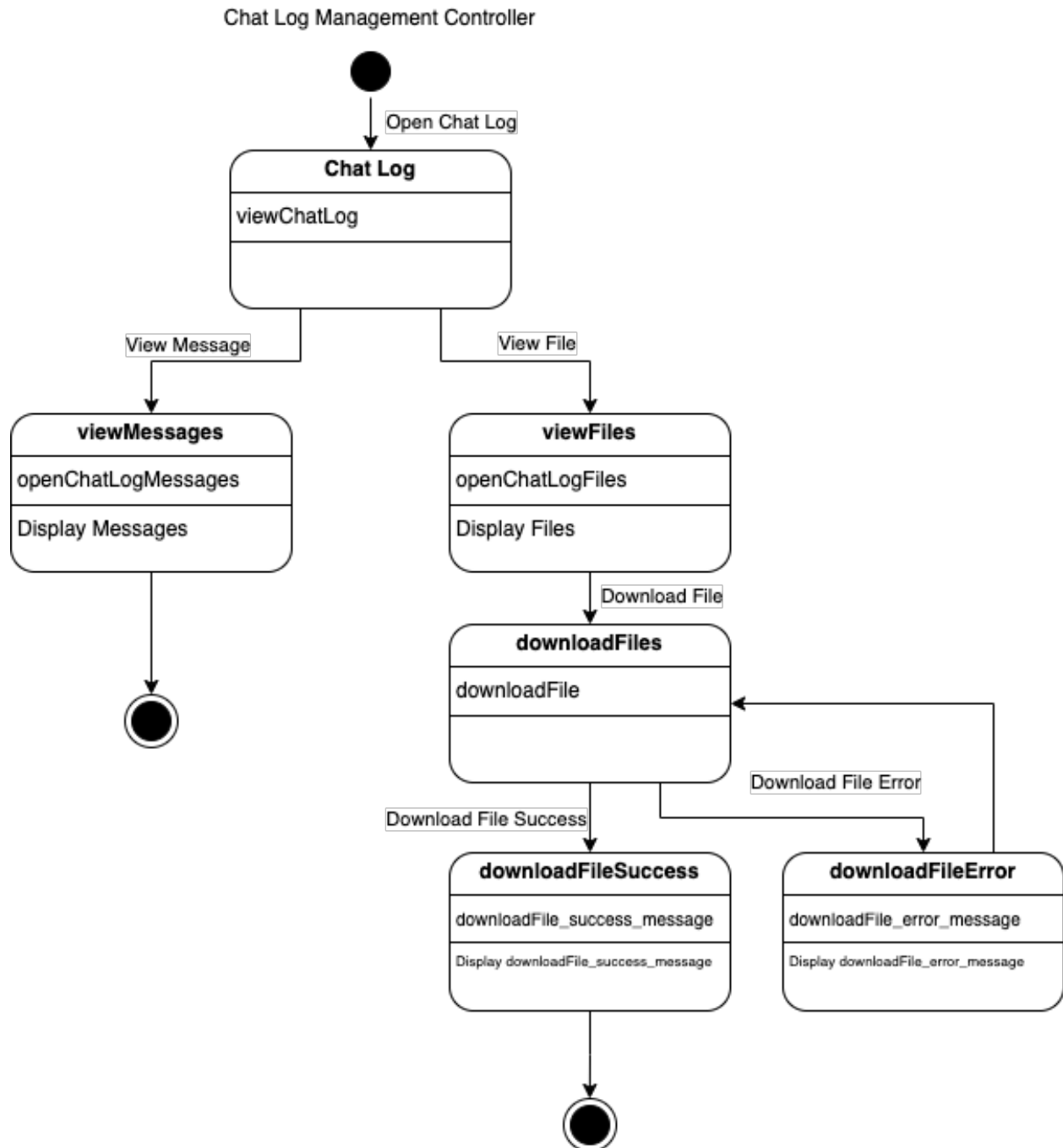


Figure 2.3 Overall Chat Log Management Controller State Diagram

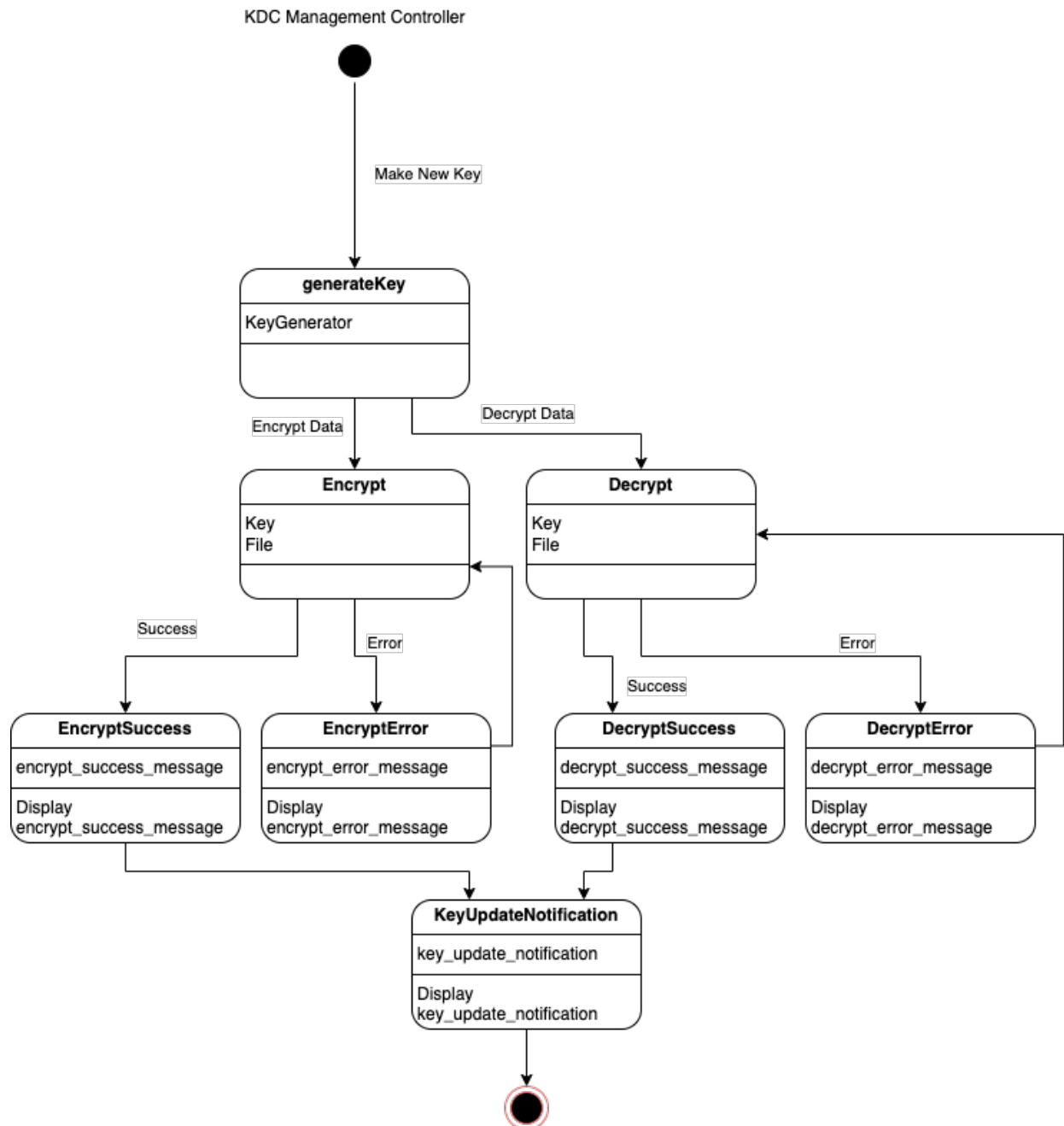


Figure 2.4 Overall KDC Management Controller State Diagram

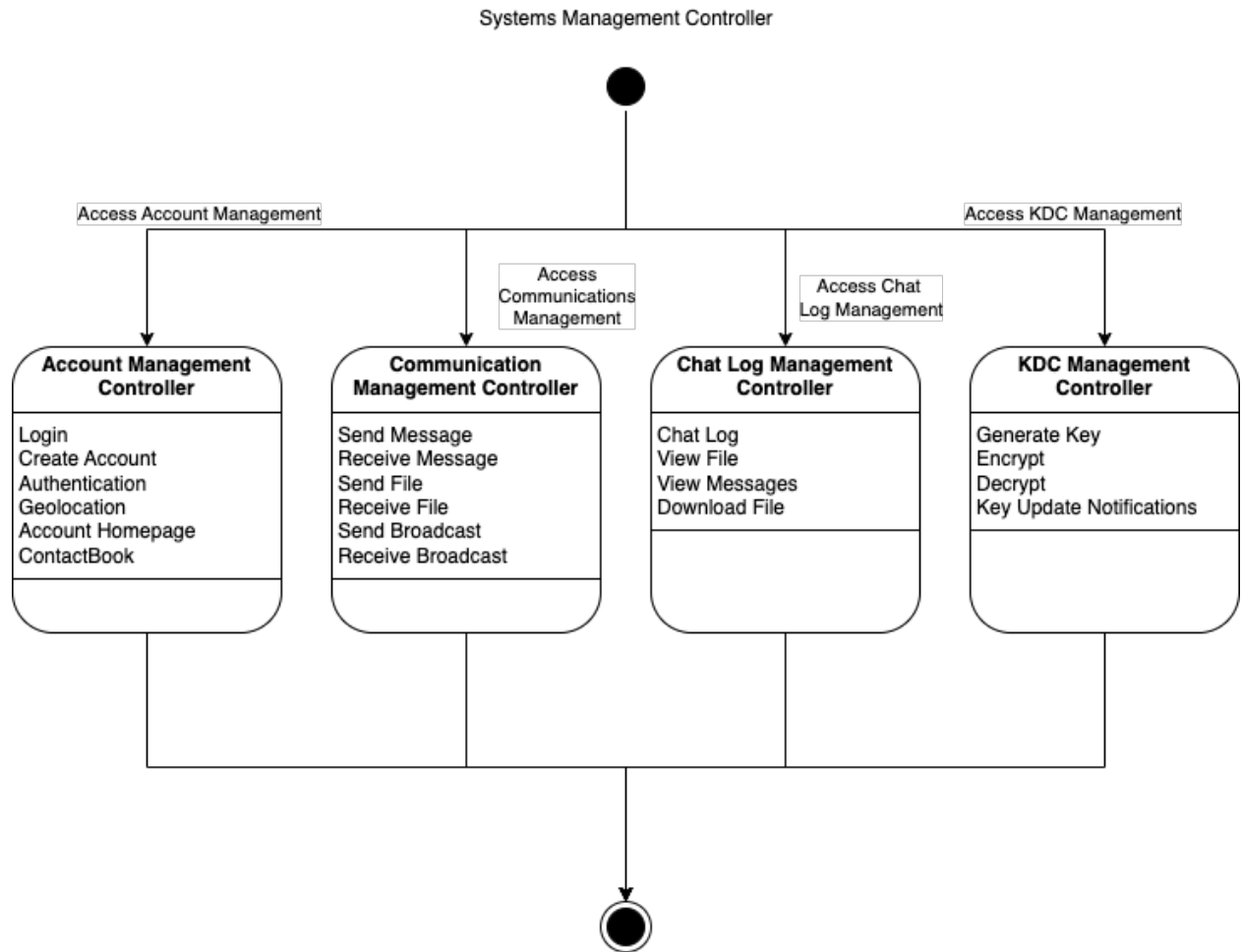


Figure 2.5 Overall System Management Controller State Diagram

3 Sequence Diagrams

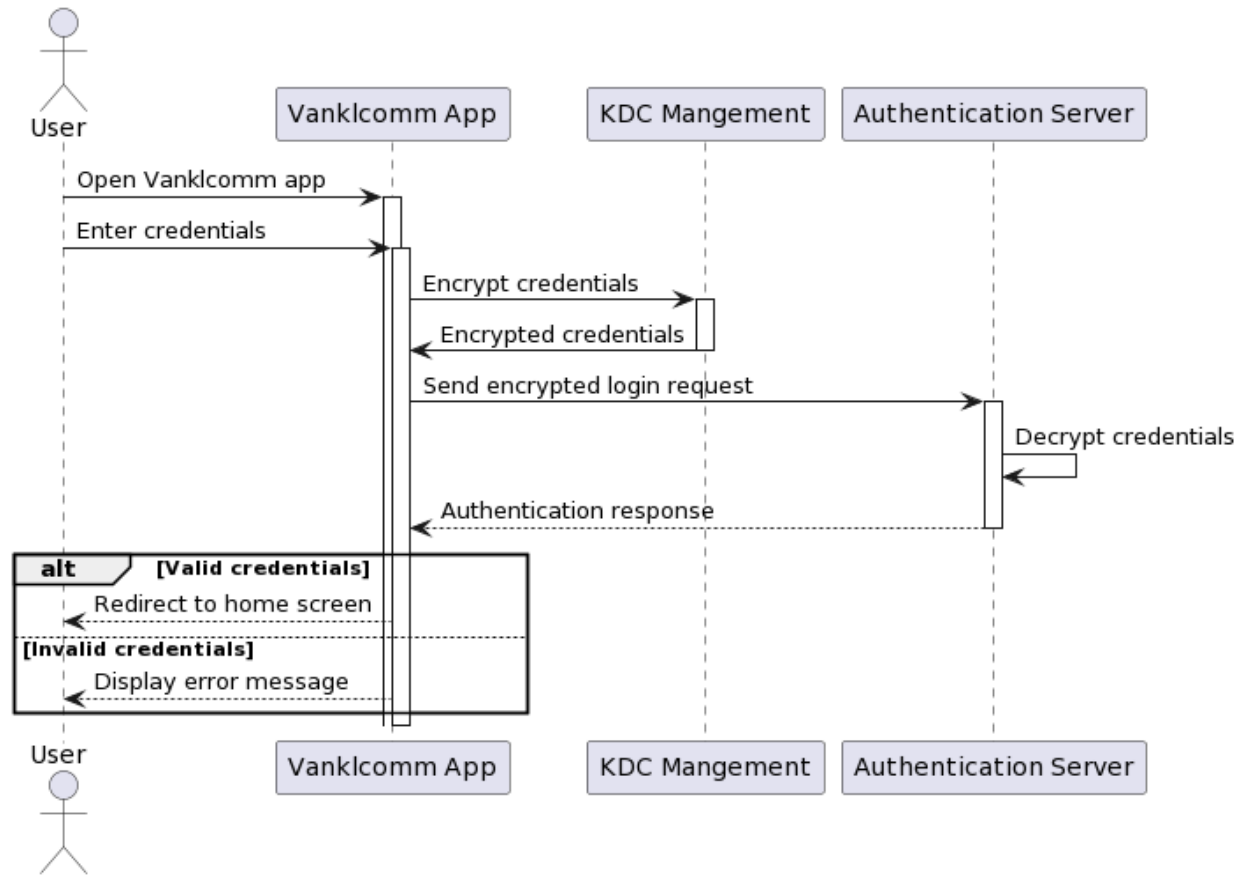


Figure 3.1 Login Sequence Diagram
User authentication process to gain access to the Vanklcomm app.

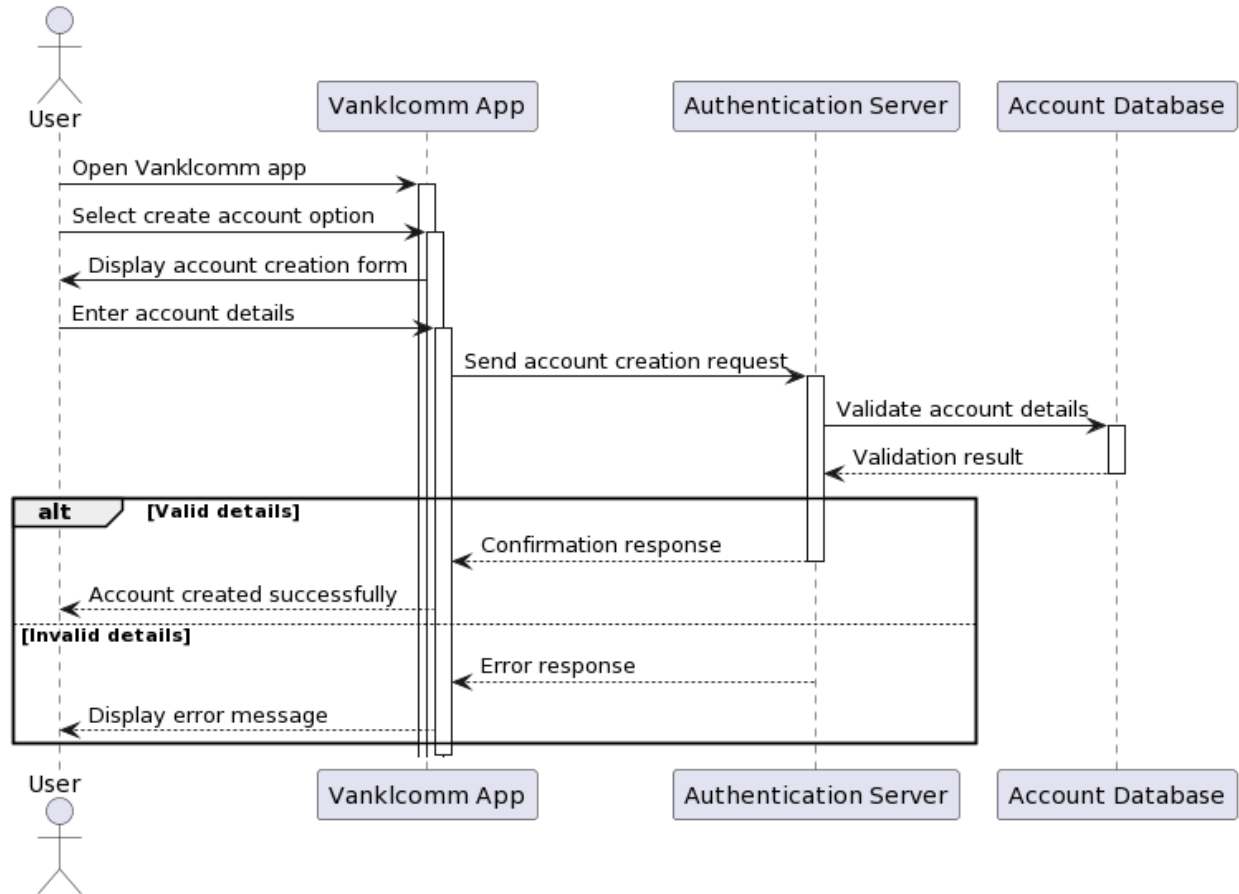


Figure 3.2 Create Account Sequence Diagram
 User registration process to create a new account in the Vanklcomm app.

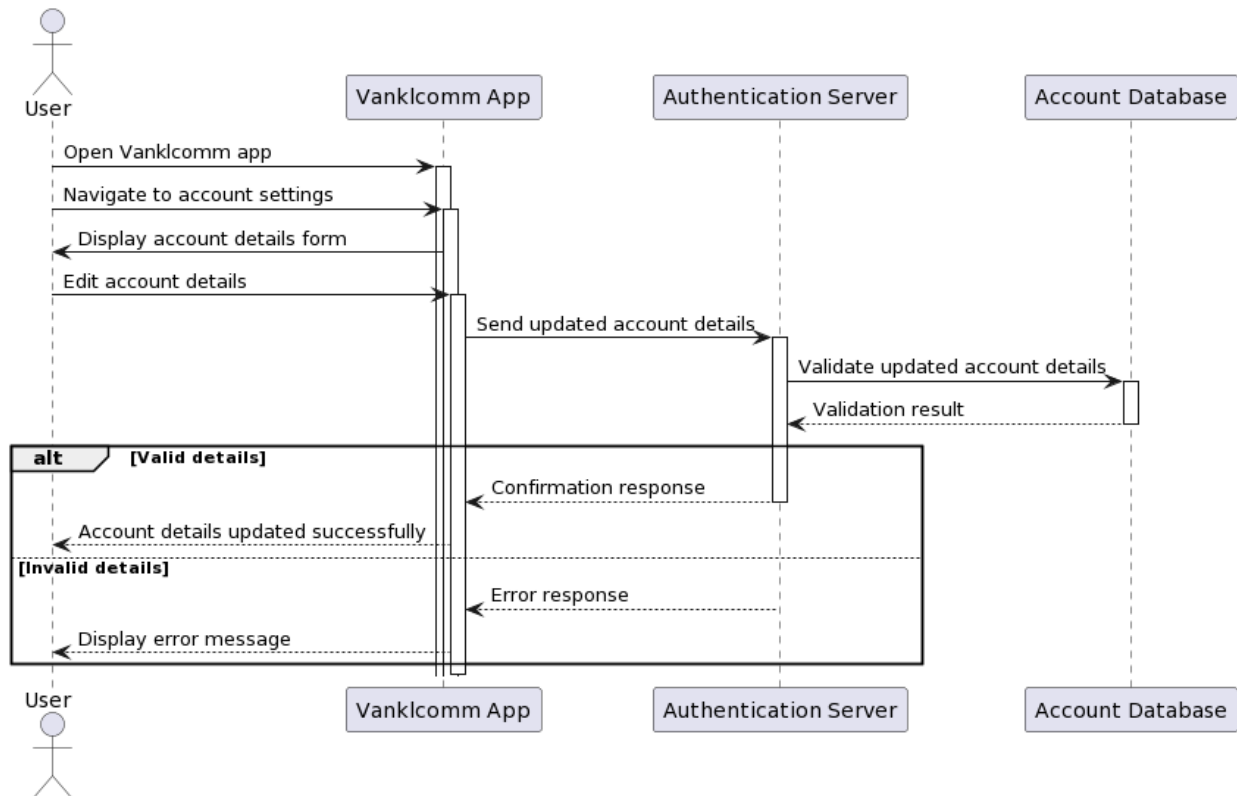


Figure 3.3 Edit Account Sequence Diagram

User can modify their account details within the Vanklcomm app.

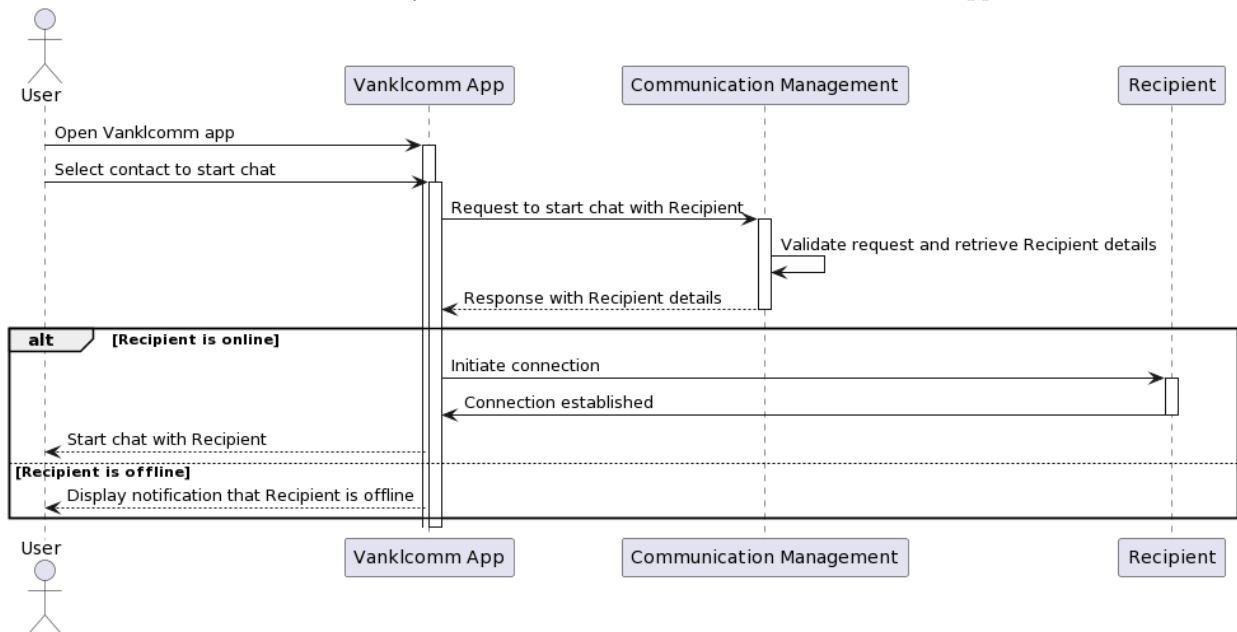


Figure 3.4 Start Chat Sequence Diagram

User initiates a chat session with a contact in the Vanklcomm app.

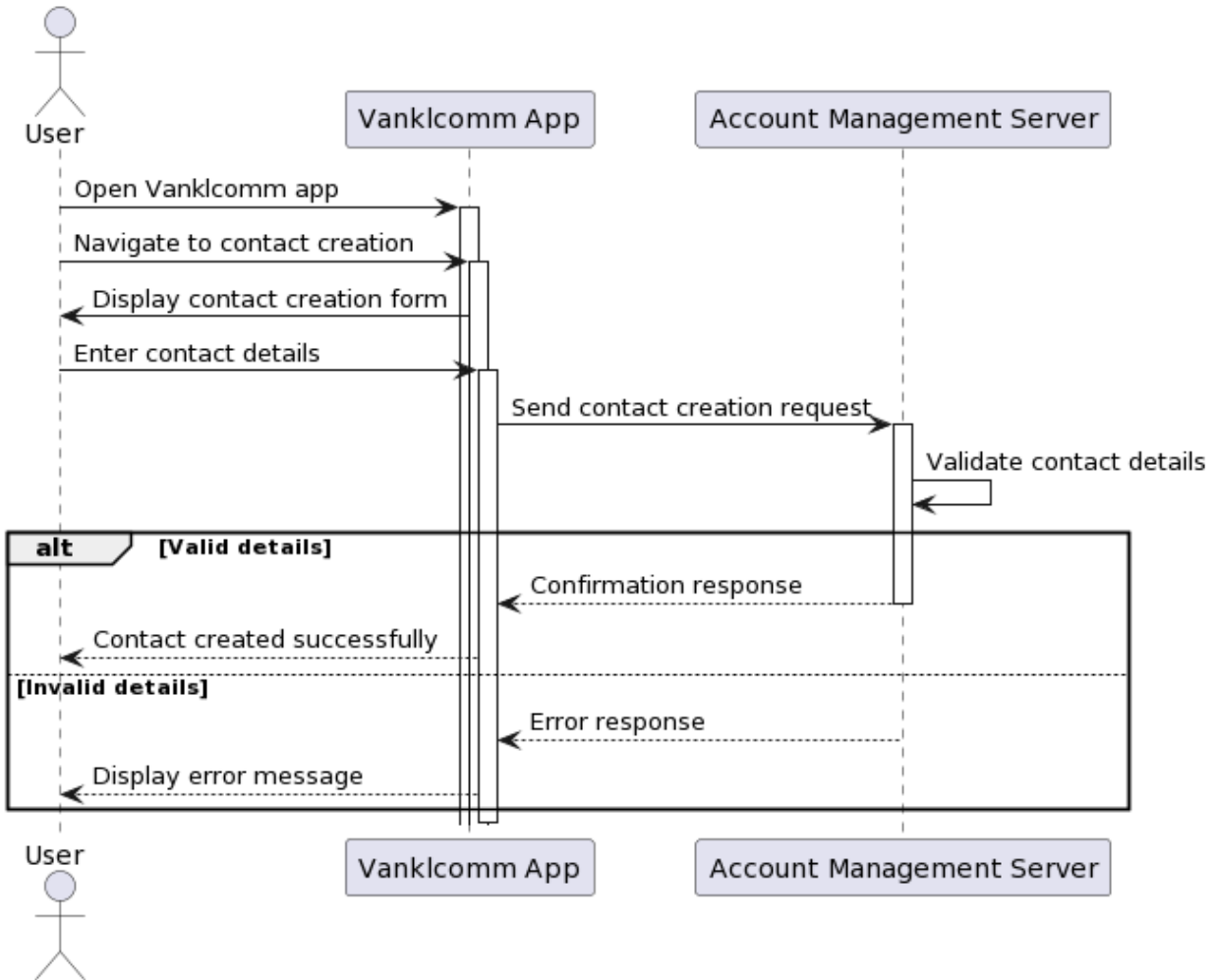


Figure 3.5 Create Contact Sequence Diagram

User adds a new contact to their contact list in the Vanklcomm app.

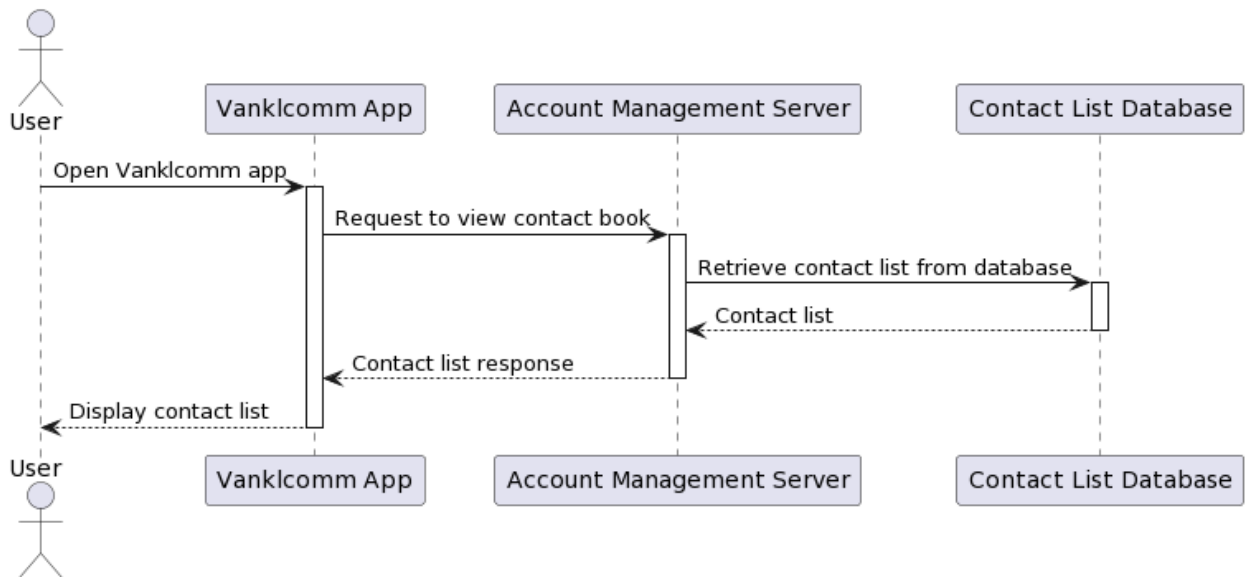


Figure 3.6 View Contact Book Sequence Diagram

User can view their existing contact list in the Vanklcomm app.

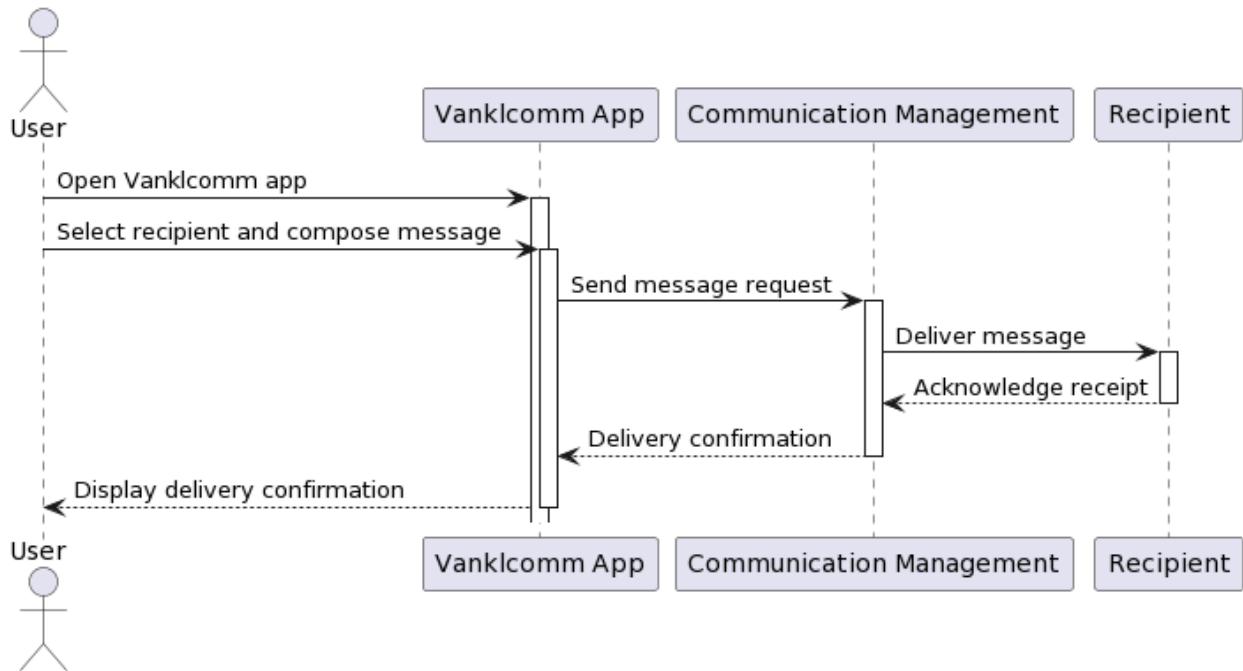


Figure 3.7 Send Message Sequence Diagram

User composes and sends a message to a contact during a chat session.

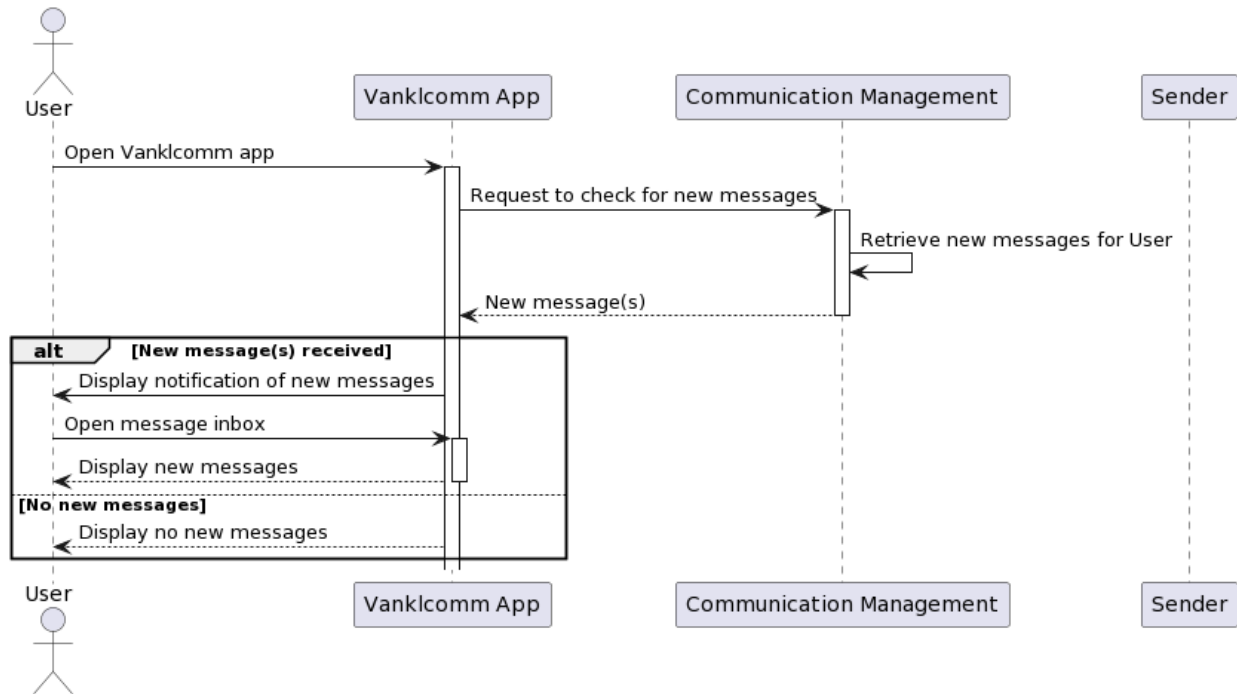


Figure 3.8 Receive Message Sequence Diagram

User receives and views a message from a contact during a chat session.

4 Detailed Class Diagram

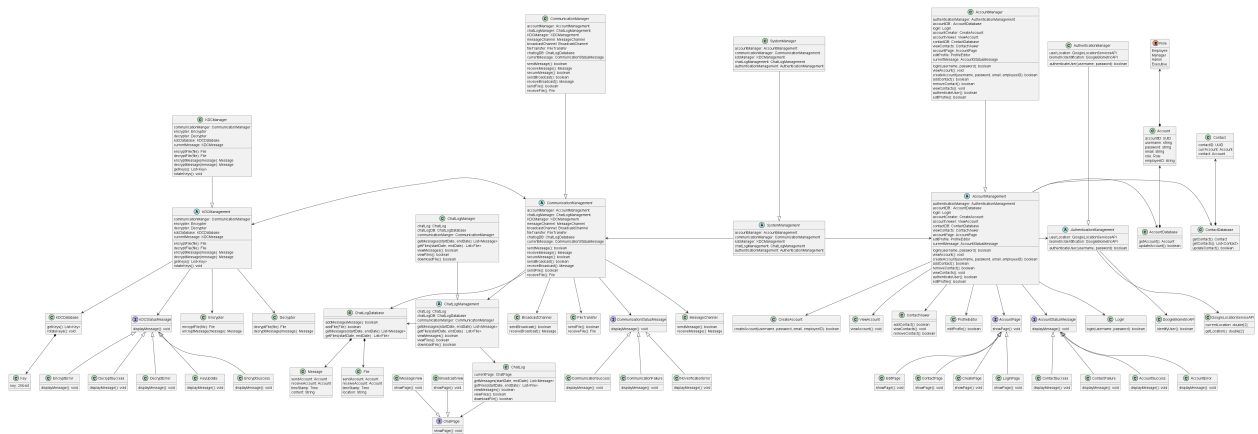


Figure 4.1 Overall Detailed Class Diagram

The enlarged Overall Detailed Class Diagram is better shown in Figures 4.1.1, 4.1.2, and 4.1.3

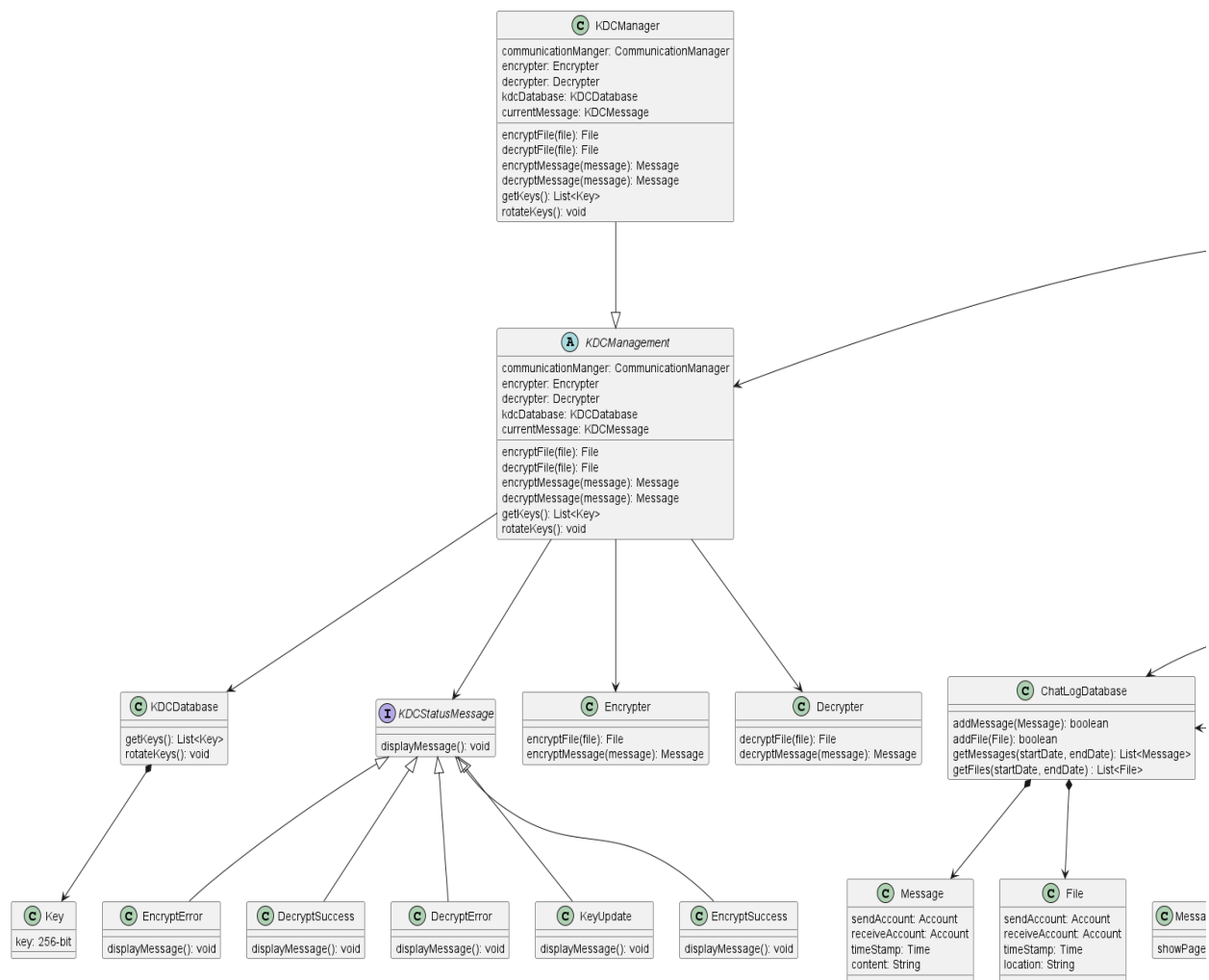


Figure 4.1.1 Detailed Class Diagram Part 1

This is on the far left side of the overall detailed diagram. On its right is figure 4.1.2.

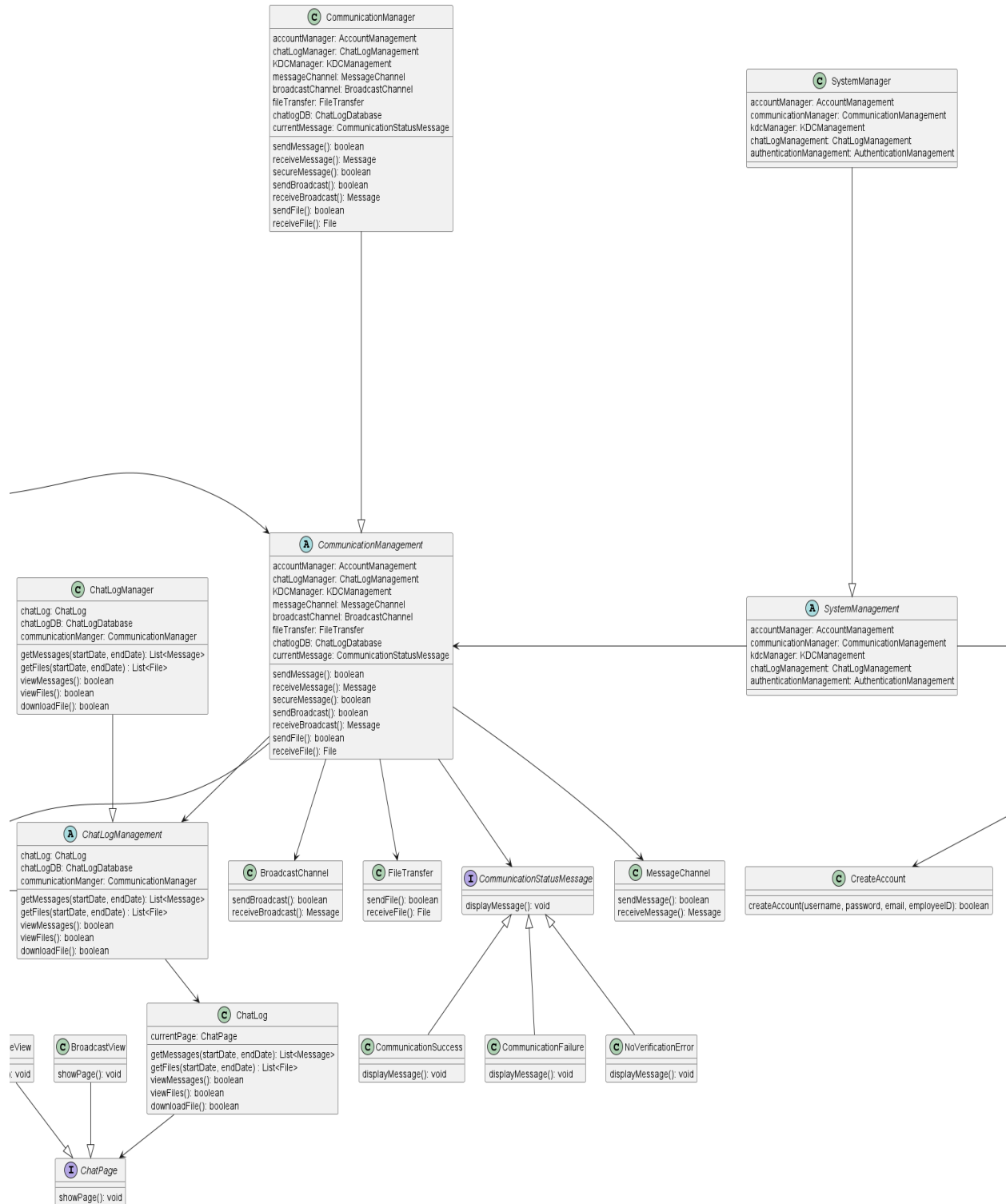


Figure 4.1.2 Detailed Class Diagram Part 2

This is on the middle of the overall detailed diagram. On its right is figure 4.1.3 and on the left is 4.1.1.

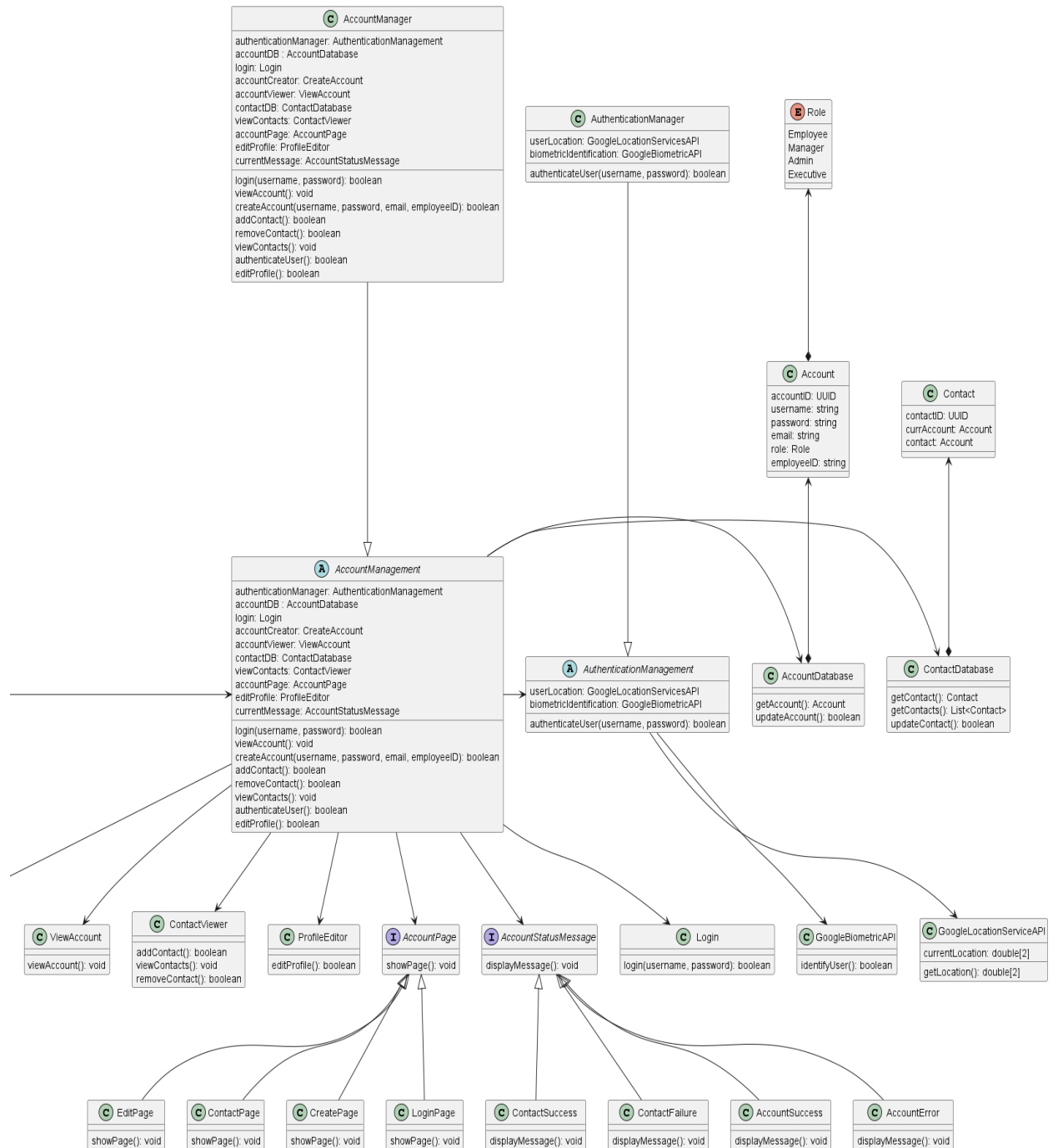
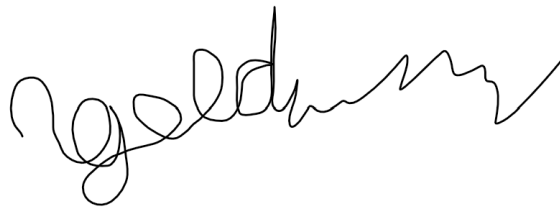


Figure 4.1.3 Detailed Class Diagram Part 3
 This is on the far right of the overall detailed diagram. On the left is 4.1.2.

A Division of Labour

Noah Goldschmied:

- Section 1.1 - Purpose
- Section 1.2 - System Description
- Section 1.3 - Overview
- Figures 2.1, 2.1.1, 2.1.2, 2.1.3 - Account Management Controller State Diagrams
- Figures 2.2, 2.2.1, 2.2.2, 2.1.3, 2.1.4 - Communication Management Controller State Diagrams
- Reviewed the whole document as a group



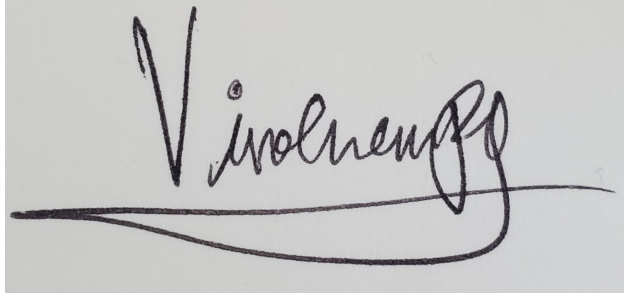
Leo Vugert:

- Figures 2.1, 2.1.1, 2.1.2, 2.1.3 - Account Management Controller State Diagrams
- Section 2.3 - Chat Log Management Controller State Diagram
- Section 2.4 - KDC Management Controller State Diagram
- Section 2.5 - System Management Controller State Diagram
- Reviewed the whole document as a group



Virochaan Ravichandran Gowri:

- Section 4 - Overall Detailed Class Diagram
- Figures 4.1, 4.1.1, 4.1.2, 4.1.3 - Overall Class Diagram as well as subdiagrams.
- Reviewed the whole document as a group

A handwritten signature in black ink on a light gray background. The signature is written in a cursive style, starting with a large 'V' and ending with a long, sweeping horizontal line.

Krish Dogra:

- Section 4 - Overall Detailed Class Diagram
- Reviewed the whole document as a group

Krish Dogra

Alex Yoon:

- Section 3 - Sequence Diagrams
- Figures 3.1-3.8 - Sequence Diagrams
- Reviewed the whole document as a group

A handwritten signature in black ink on a white background. The signature is written in a cursive style, starting with a large 'A' and ending with a long, sweeping horizontal line.

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 thoroughly 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