

# Boardzilla

## Detailed Design

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## 1 Introduction

### 1.1 Purpose

The purpose of this document is to identify the major components of the system and describe their interactions. The information is presented in the form of detailed diagrams of Boardzilla including state charts for controller classes, sequence diagrams, and a detailed class diagram. Through these diagrams, the reader should have a good understanding of how the system functions and how transitions are handled. The target audience includes the professor and teaching assistants who will inspect the document as well as the developers who may use this document as a reference.

### 1.2 System Description

Boardzilla is an online application that serves as a dashboard for a variety of information meant to serve as a daily briefing or hub. Each user will have their own protected account with a customizable dashboard screen containing the widgets of their choice. The users are able to select their desired amounts of a weather widget, a sticky notes widget, a calendar widget, a stock widget and a news widget. Widgets can be added or removed and can be repositioned on the users' dashboards. In addition, users will be able to input data into each widget and modify options unique to each widget.

### 1.3 Overview

The remainder of this document contains diagrams that delineate the system and its components. Section 2 provides the state charts for controller classes of Boardzilla, section 3 contains the sequence diagrams, and section 4 involves the detailed class diagram of Boardzilla.

## 2 State Charts for Controller Classes

### 2.1 Main Controller

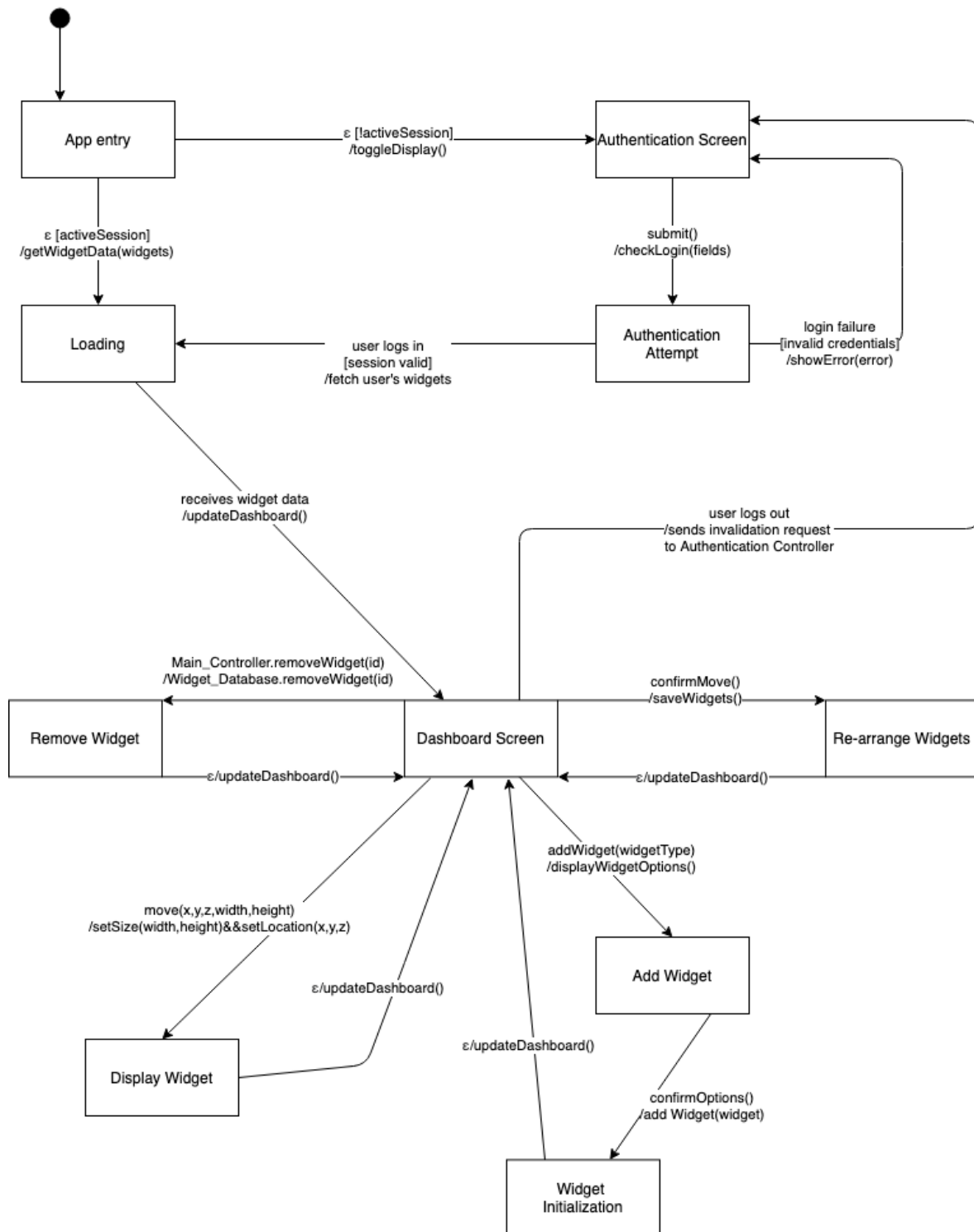


Figure 1: Main Controller State Chart

## 2.2 Authentication Controller

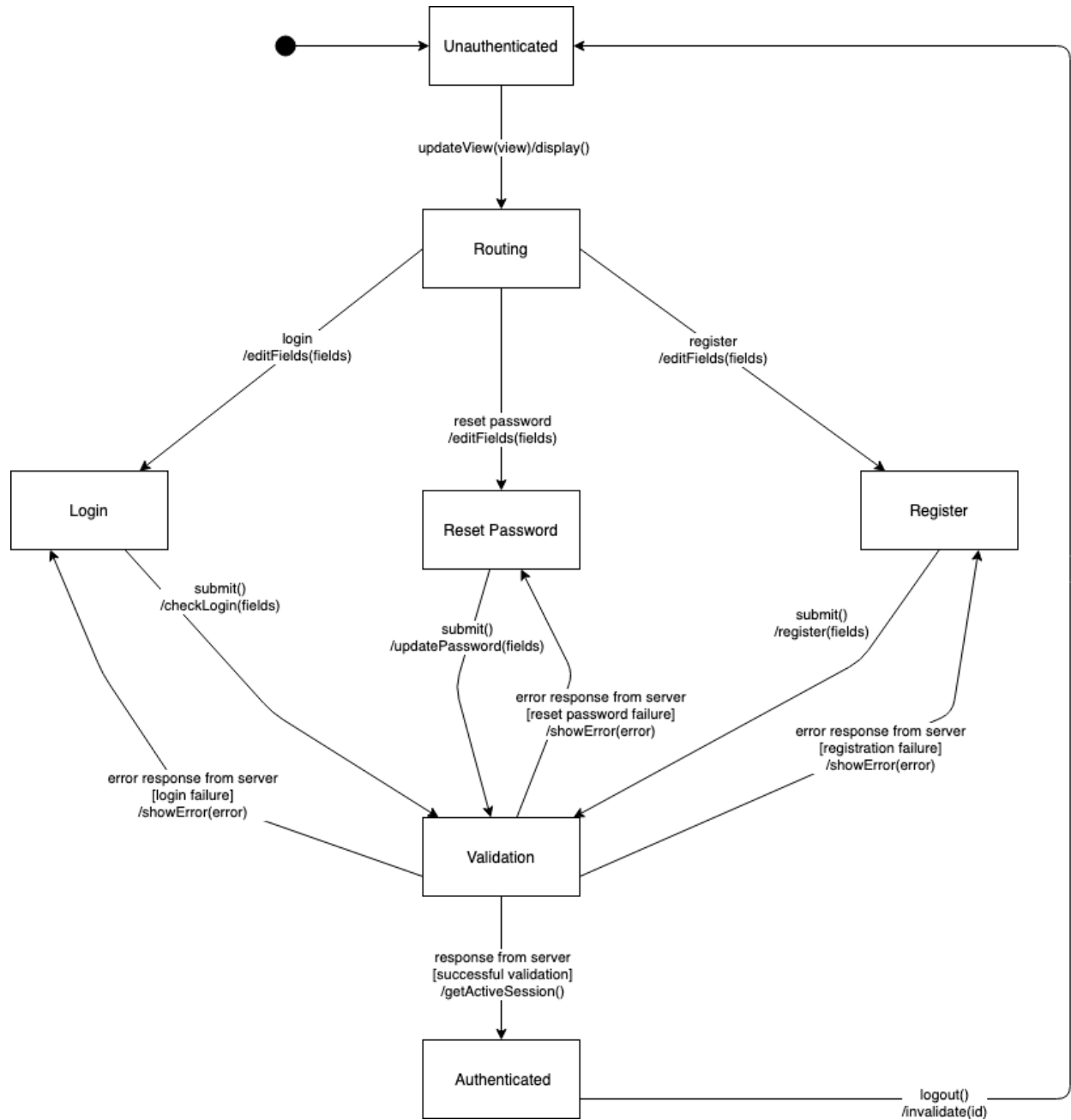


Figure 2: Authentication Controller State Chart

## 2.3 Widget Controller

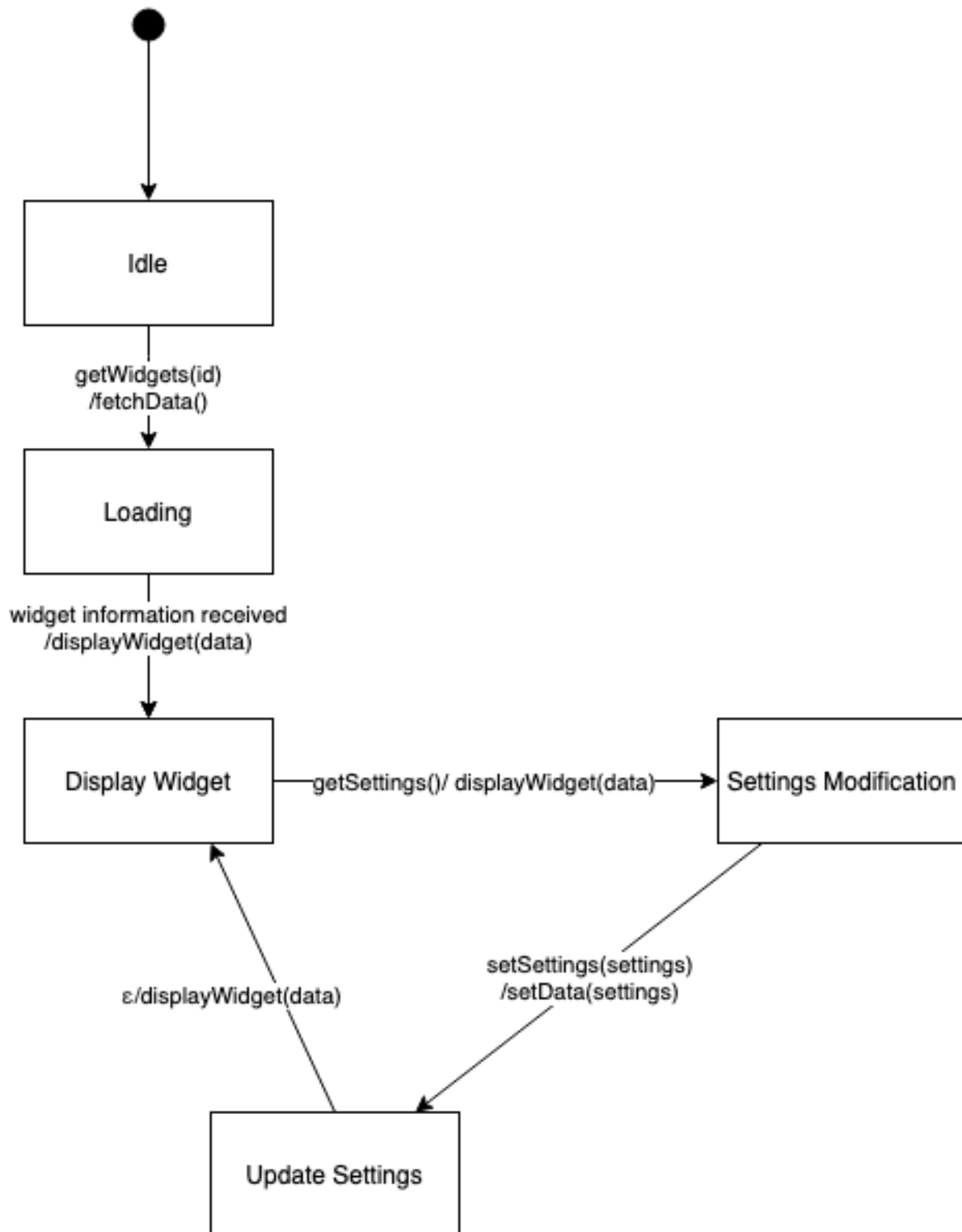


Figure 3: Generic Widget Controller State Chart

### 3 Sequence Diagrams

#### 3.1 View Dashboard

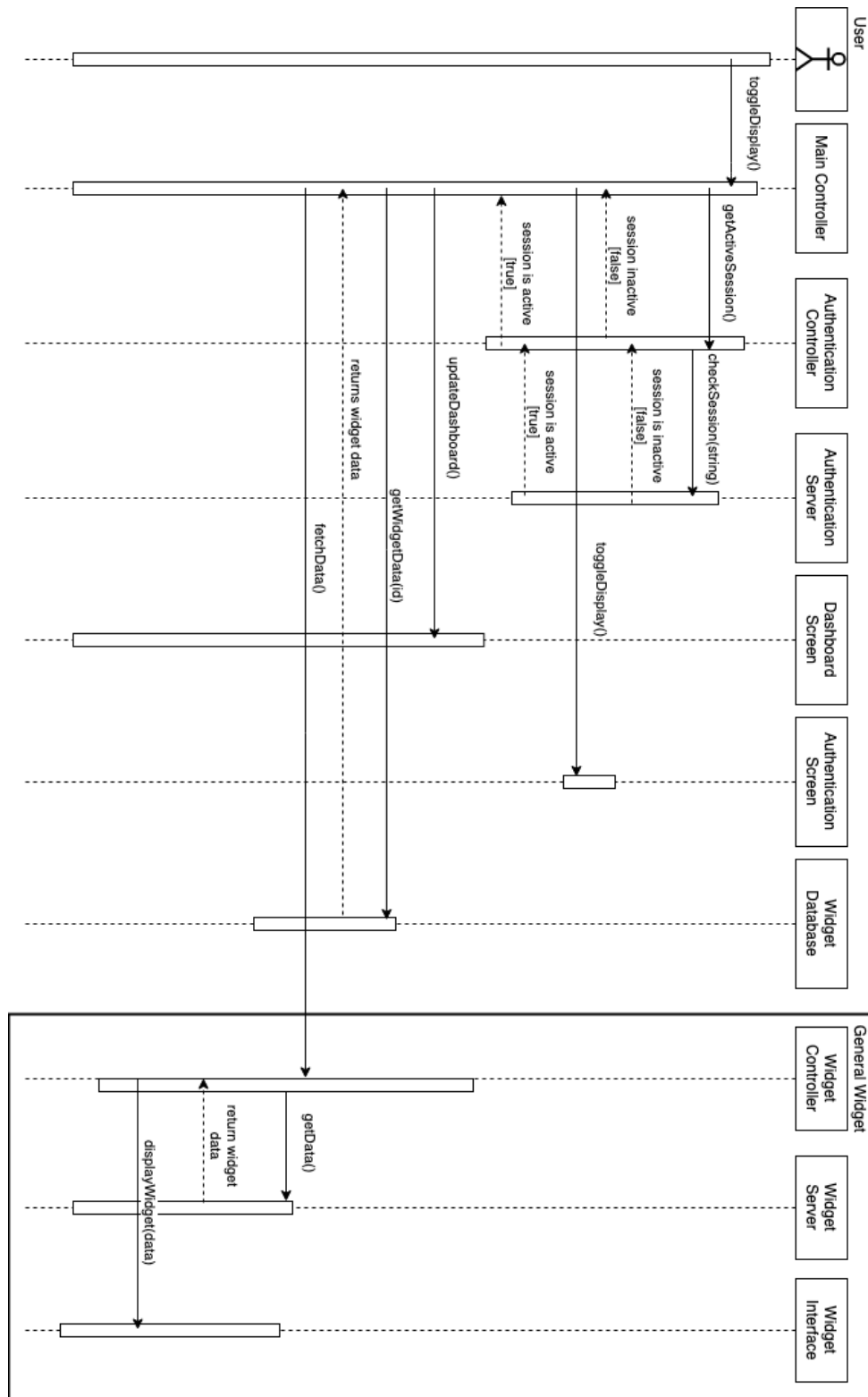


Figure 4: Sequence Diagram for Viewing the Dashboard

### 3.2 Remove Widget

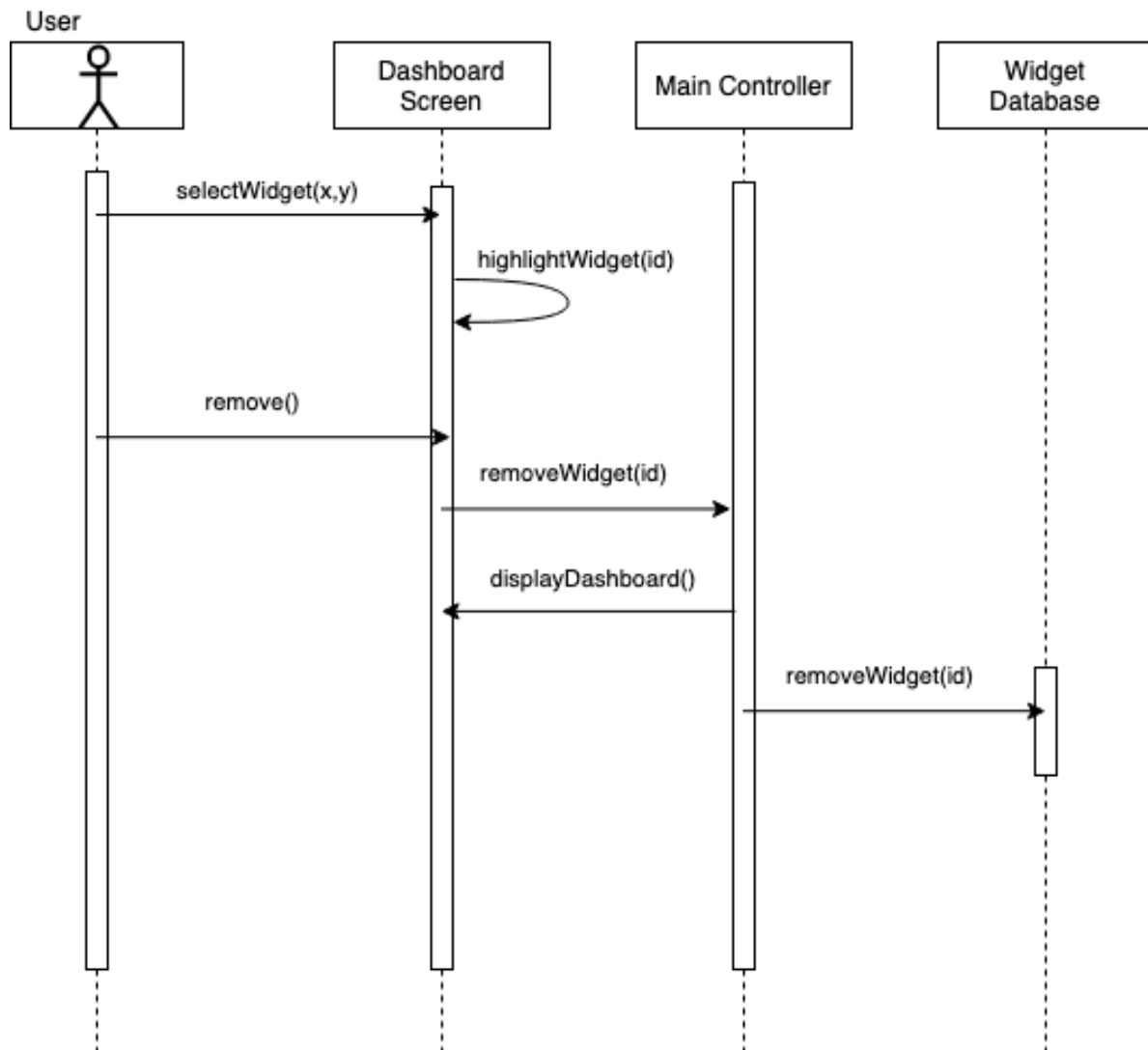


Figure 5: Sequence Diagram for Removing a Widget

### 3.3 Rearrange Widgets

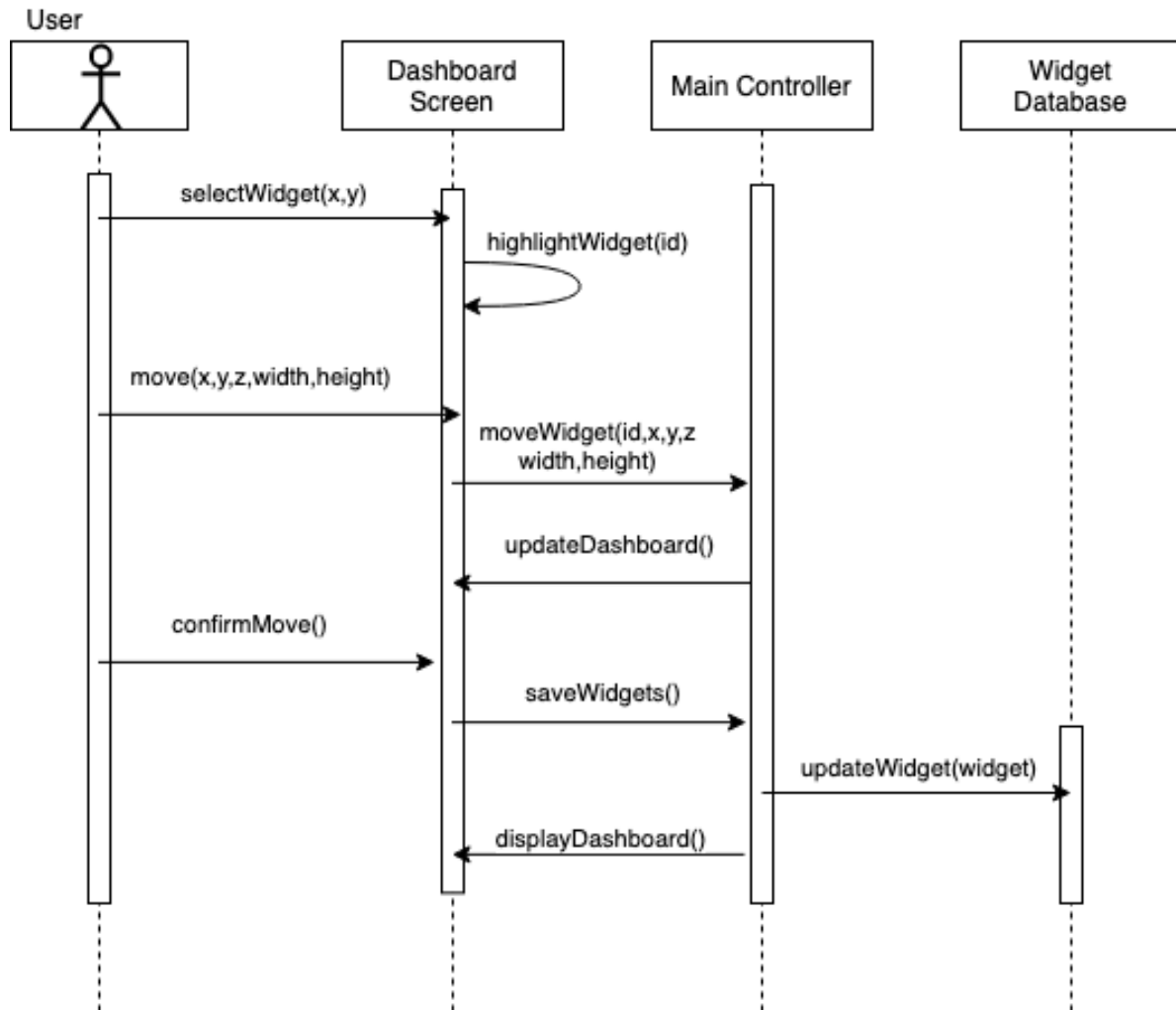


Figure 6: Sequence Diagram for Rearranging Widgets

### 3.4 Add Widget

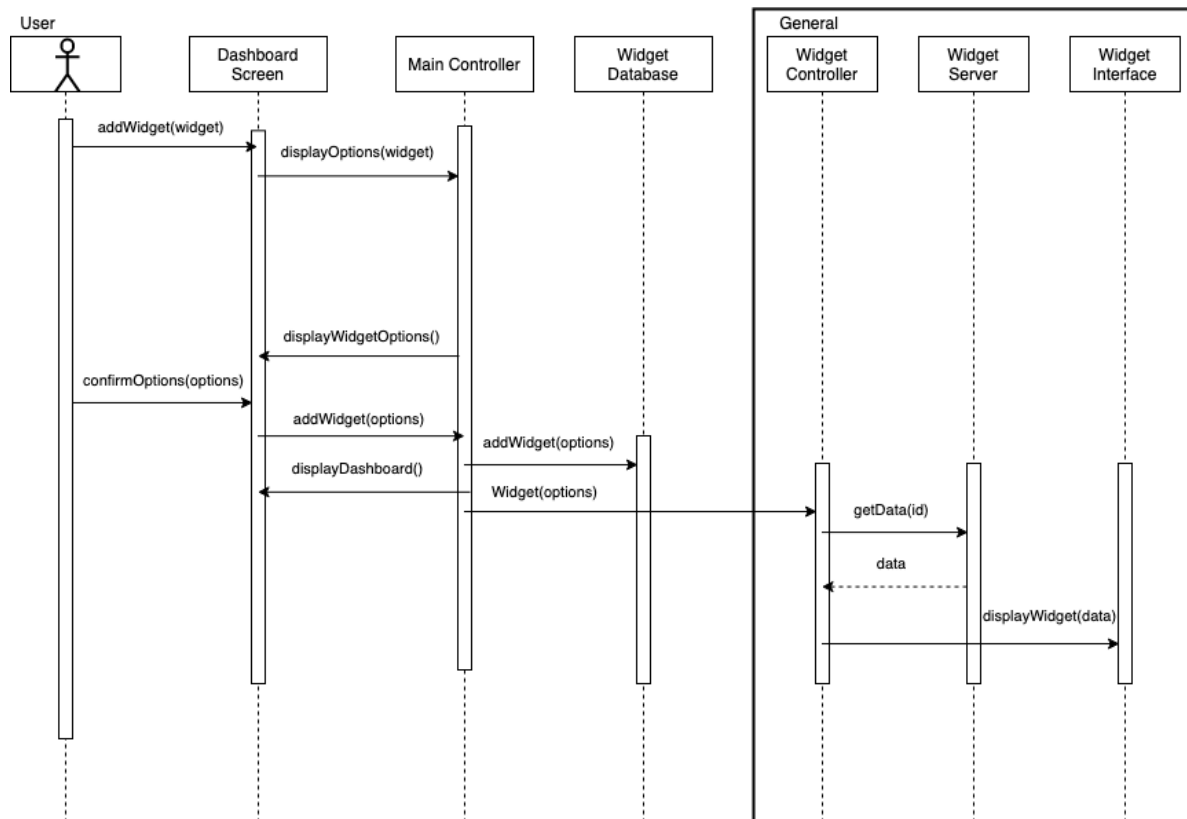


Figure 7: Sequence Diagram for Adding a Widget



### 3.5 Logout

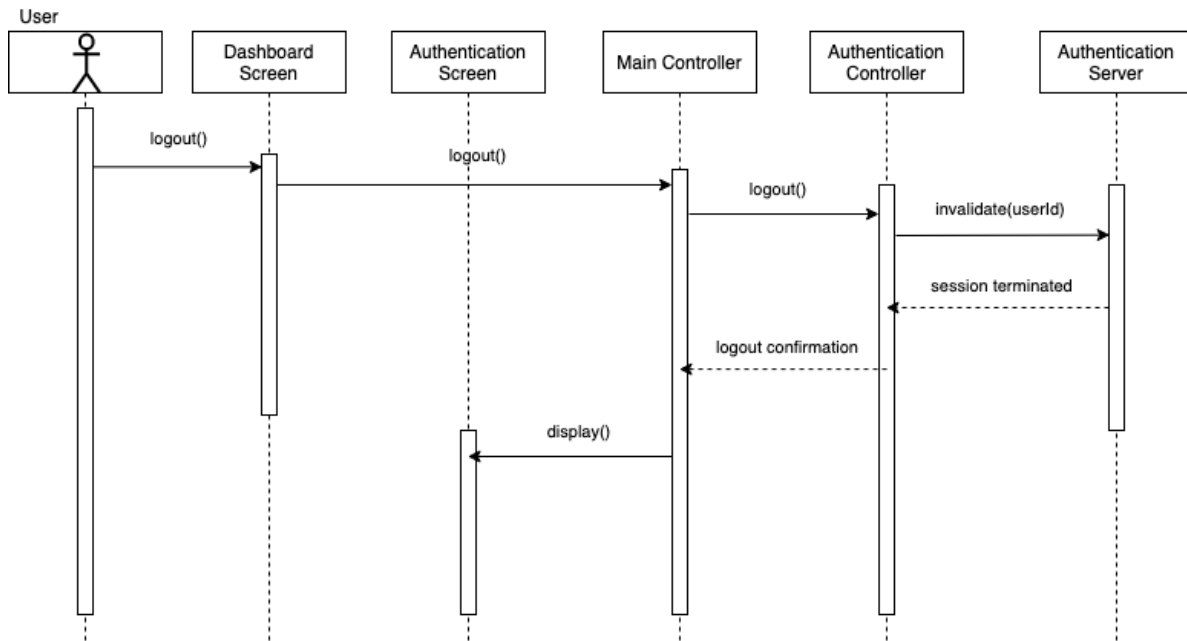


Figure 8: Sequence Diagram for Logging Out

### 3.6 Login

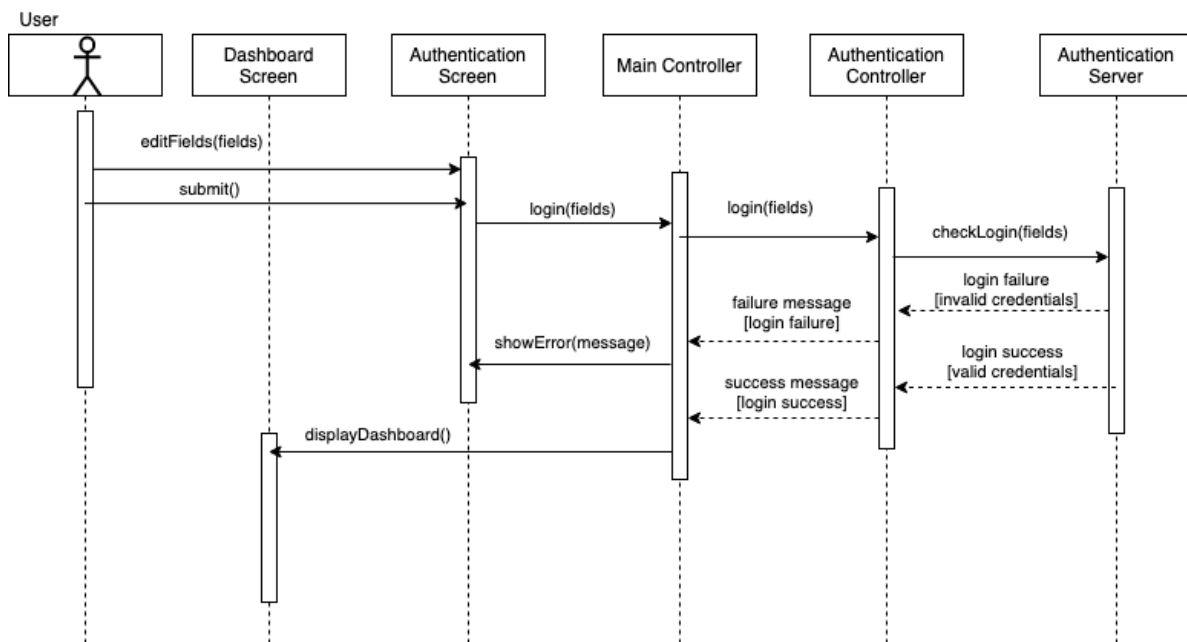


Figure 9: Sequence Diagram for Logging In

### 3.7 Reset Password

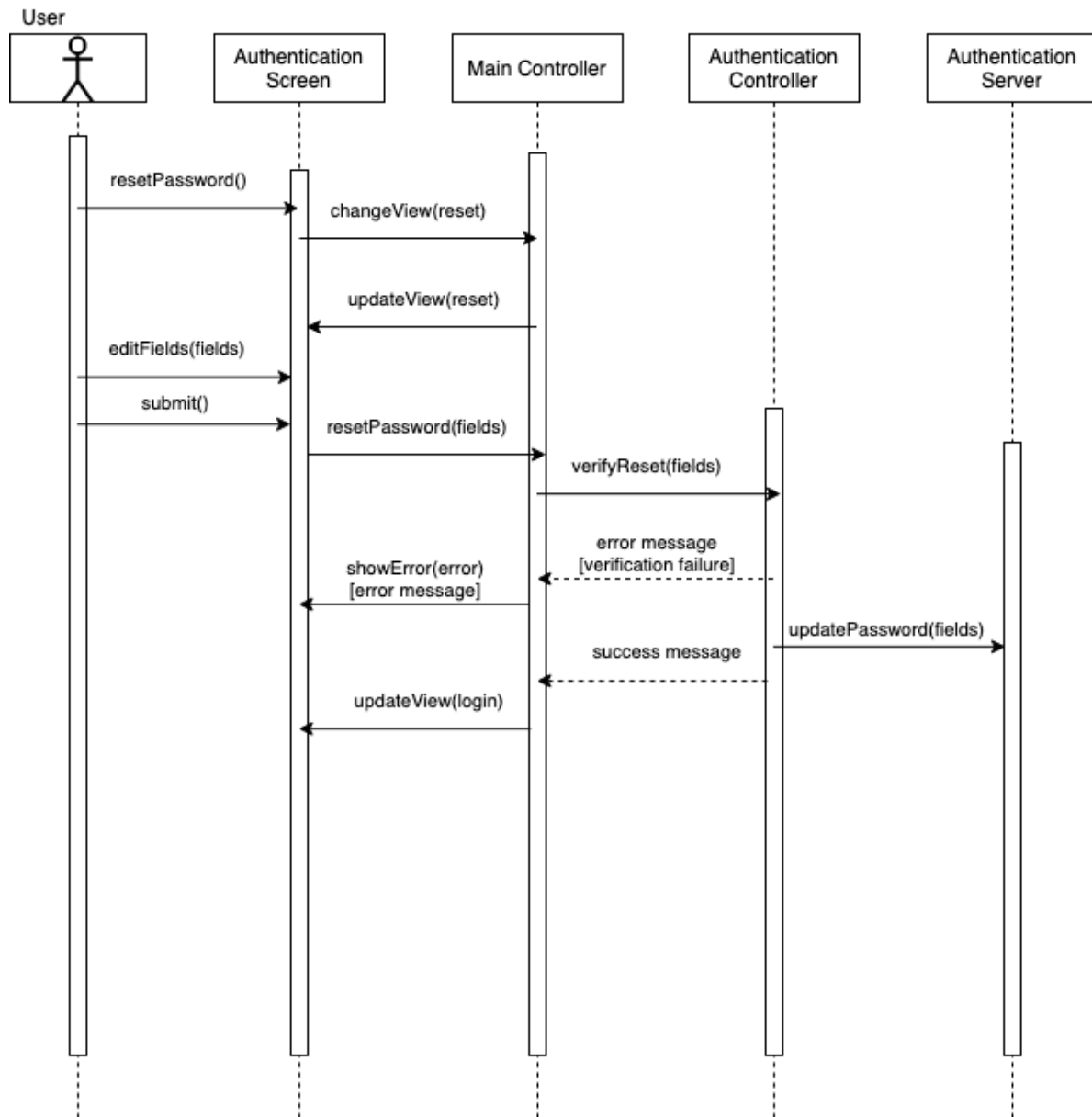


Figure 10: Sequence Diagram for Resetting a Password

### 3.8 Register

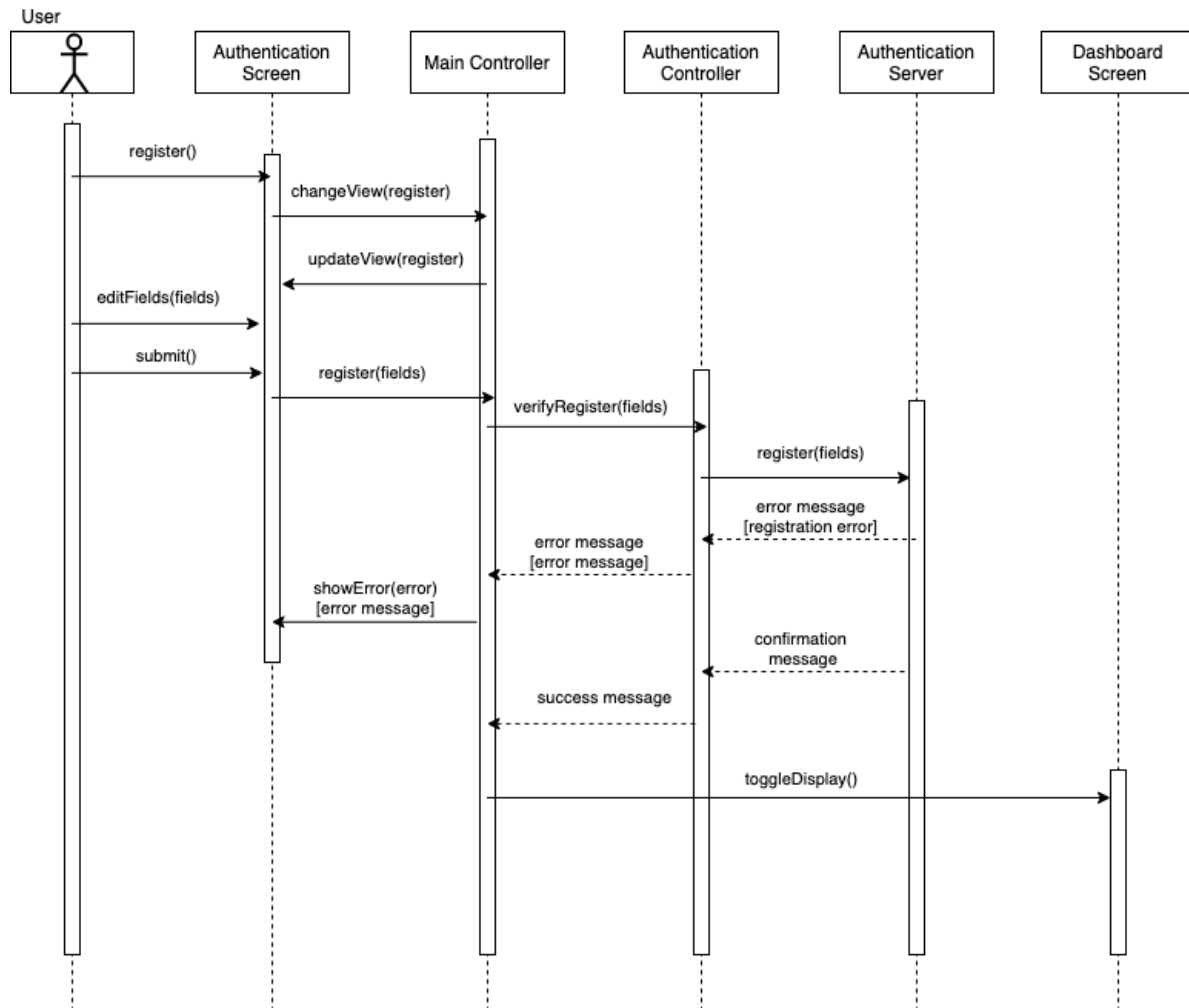


Figure 11: Sequence Diagram for Registering an Account

## 4 Detailed Class Diagram

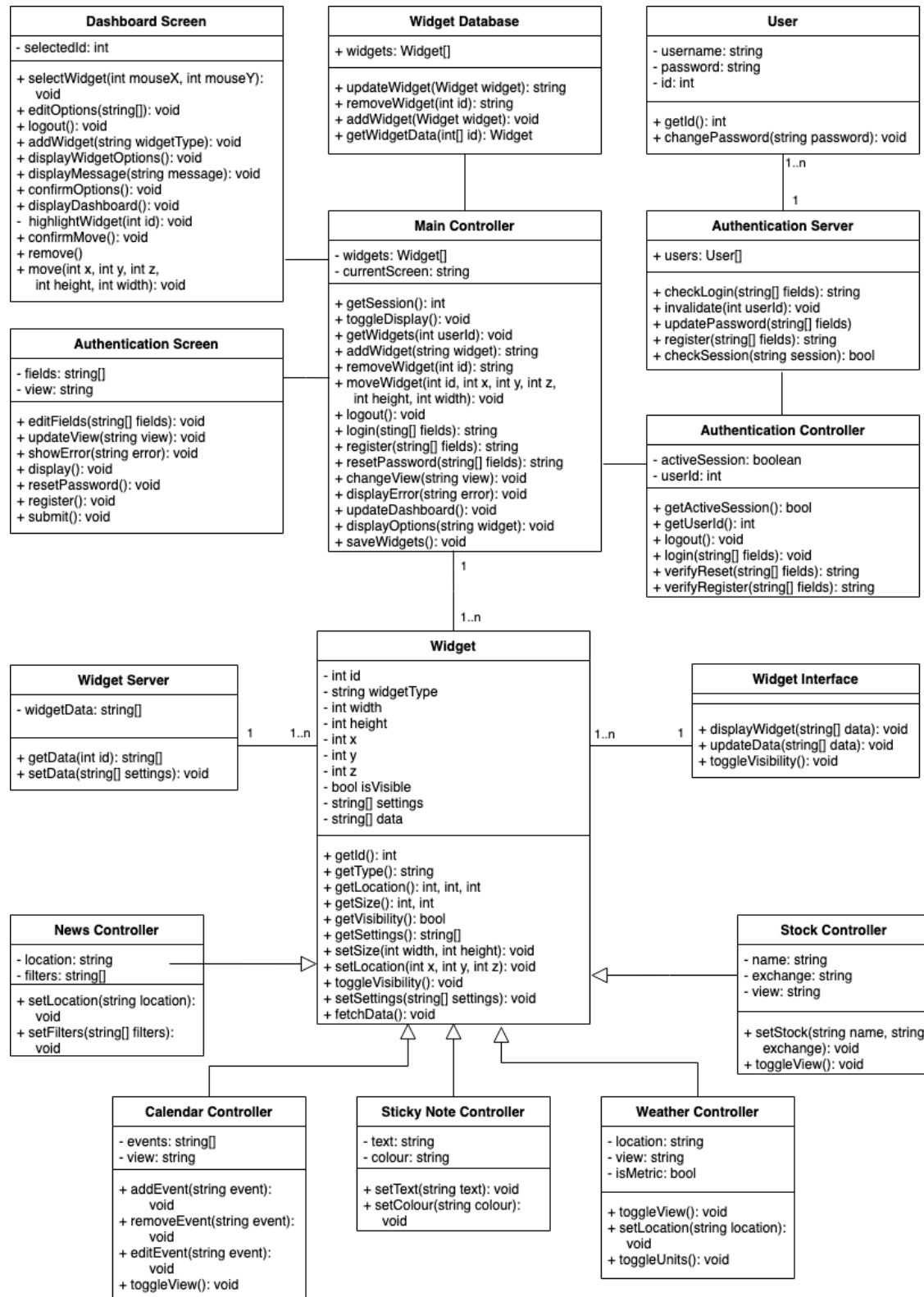


Figure 12: Detailed Class Diagram

## A Division of Labour

This document was created through a collaborative effort by the whole group, exchanging ideas and filling in sections together. Meetings were held regularly to iterate on this document until an acceptable final version was achieved. By signing this document, the group members certify that this division of labor is fair and accurate.

### A.1 Signatures

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Date

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Hargun Bedi

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