<Re:Book>

Software Architecture Document

Version <1.0>

Revision History

| **Date** | **Version** | **Description** | **Author** |
| --- | --- | --- | --- |
| <27/11/2021> | <1.0> |  | <Dinh Dinh, Khoi Quach, Ngan Nguyen, Thu Nguyen, My Le> |
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Table of Contents

[**Introduction**](#_heading=h.gjdgxs) **4**

[1.1 Purpose](#_heading=h.81u04fsw3wzz) 4

[1.2 Scope](#_heading=h.1gcgajbruydb) 4

[1.3 Definitions, Acronyms and Abbreviations](#_heading=h.wbc48ndqcksx) 4

[1.4 References](#_heading=h.nbvyuuqmdnsh) 4

[**Architectural Goals and Constraints**](#_heading=h.30j0zll) **4**

[Security](#_heading=h.pflzp2ptirjj) 4

[**Use-Case Model**](#_heading=h.1fob9te) **4**

[**Logical View**](#_heading=h.2et92p0) **5**

[Package: Front-end:](#_heading=h.tyjcwt) 7

[**Deployment**](#_heading=h.3dy6vkm) **8**

[**Implementation View**](#_heading=h.1t3h5sf) **8**

Software Architecture Document

# Introduction

## 1.1 Purpose

This paper depicts several features of the system using a variety of architectural viewpoints. Its purpose is to document and communicate the system's most important design decisions.

## 1.2 Scope

This Software Architecture Document provides an architectural overview of the website Re:Book. The Re:Book is being developed by Group 5 to support reviewing and publishing books.

## 1.3 Definitions, Acronyms and Abbreviations

## 1.4 References

# Architectural Goals and Constraints

There are some key requirements and system constraints that have a significant bearing on the architecture. They are:

## Security

The system must be secure, because we handle user related information.

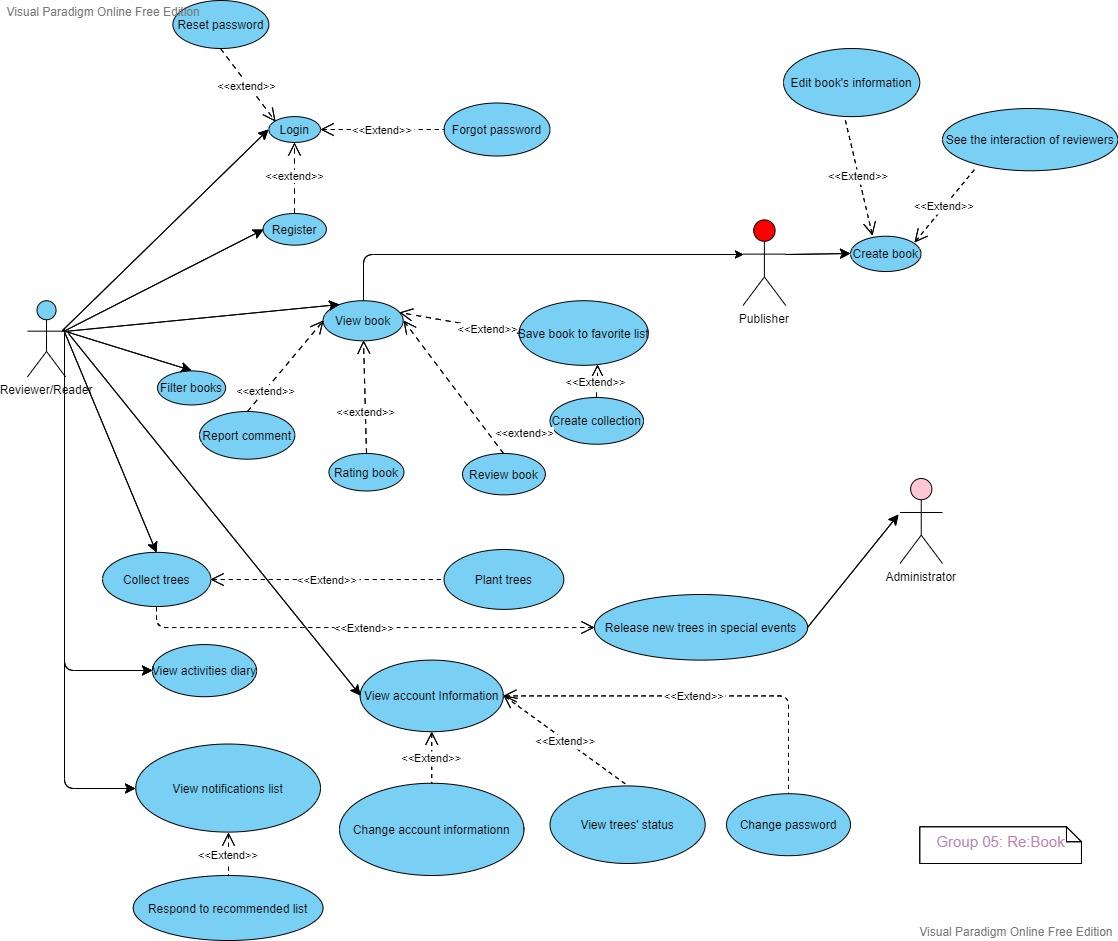
Authentication: Login with username and password

Password security: Passwords will be hashed and salted.

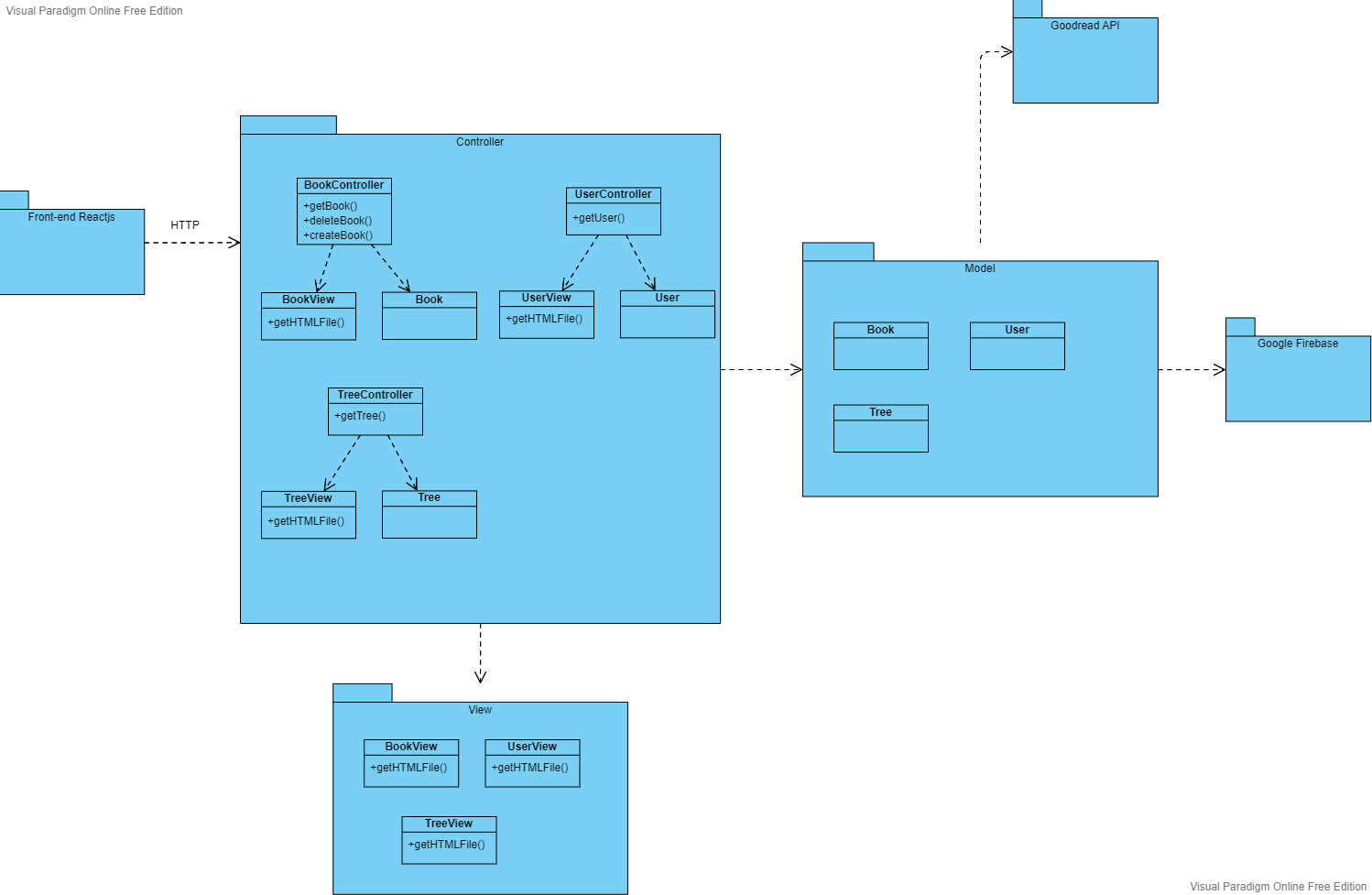
SSL: To prevent man-in-the-middle attacks.

# Use-Case Model

<https://drive.google.com/file/d/10CaMWRM_T98fZHymYlrWNjY1z3_D5xou/view?usp=sharing>



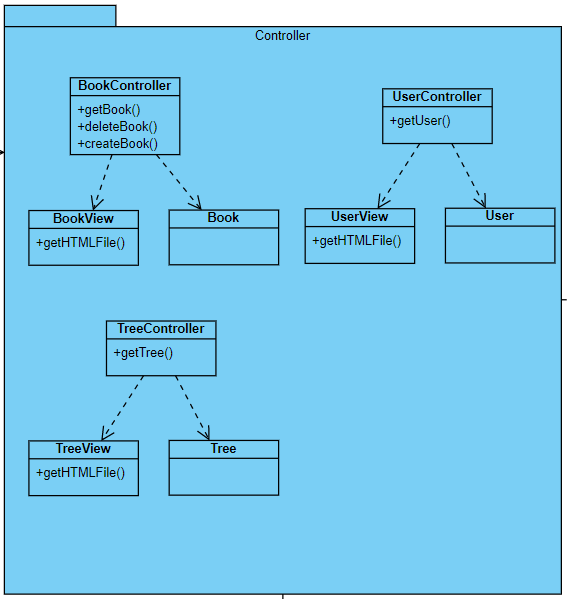
# Logical View



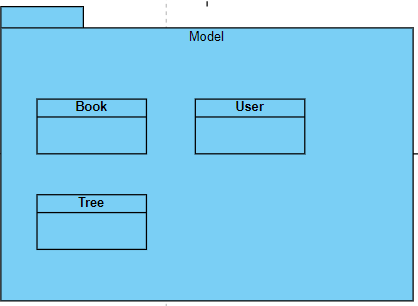
For detail: [Package Diagram.png](https://drive.google.com/file/d/1atGGthNGWnGHRhvCMXc8ohAb_dXgq7Rj/view?usp=sharing)

## Package: Front-end:

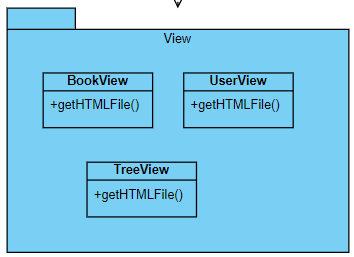
* Description: UI component for users to interact with.
* Language: Javascript
* Framework: React.js
  1. **Package: Controller:**

****

* Description: Controller is a component to control the internal backend workflow.
* Language: JavaScript
  1. **Package: View:**

****

* Description: View is a component to represent the data retrieved from the database as an HTML file.
* Language: Javascript
  1. **Package: Model:**

****

* Description: Model is a component containing objects for storing the data from the database
* Language: Javascript
  1. **Package: Goodread API:**
* Description: The Goodreads API allows developers access to Goodreads data in order to help websites or applications that deal with books be more personalized, social, and engaging.
  1. **Package: Google Firebase:**
* Description: Google's Firebase technology supports web applications, allowing secure access to the database directly from client-side code
* Data is saved in JSON format and synced in real time across all connected clients.

# Deployment

# Implementation View