Design Specification

Architecture, UI/UX, Function, Data
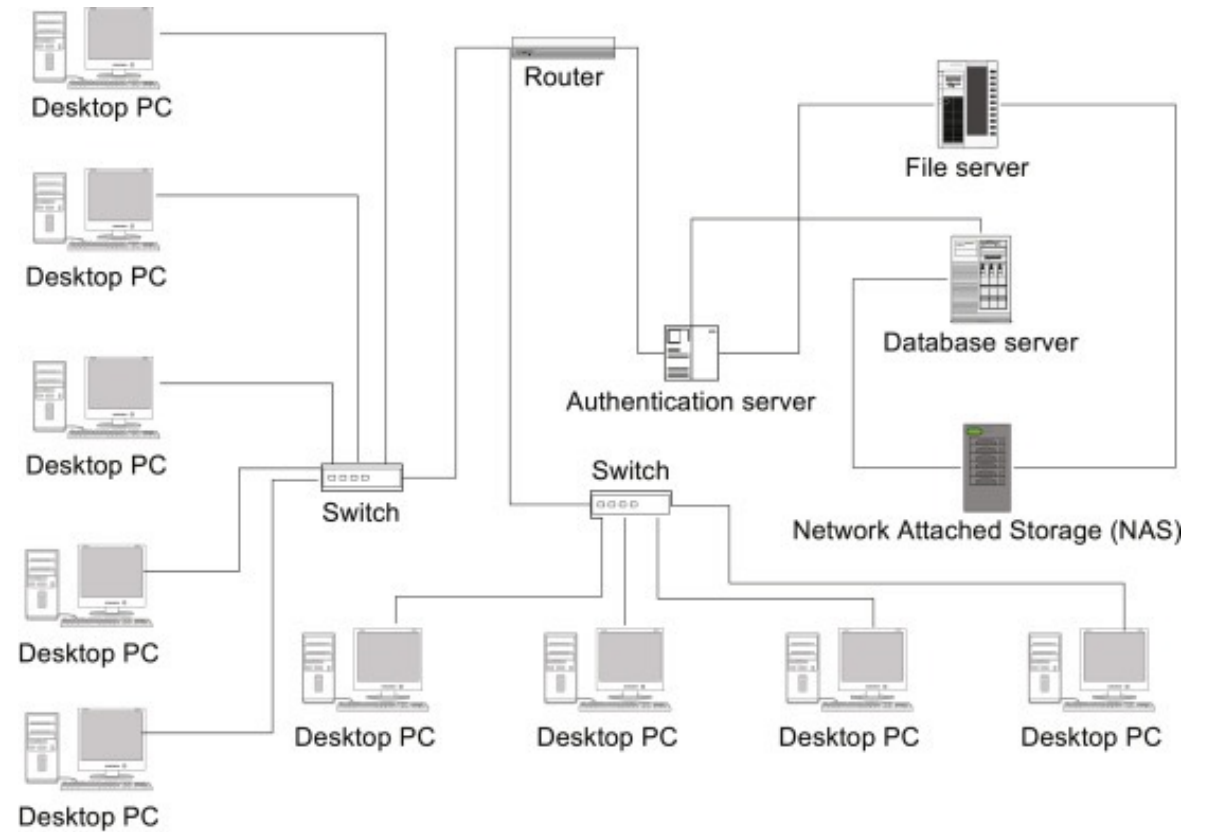
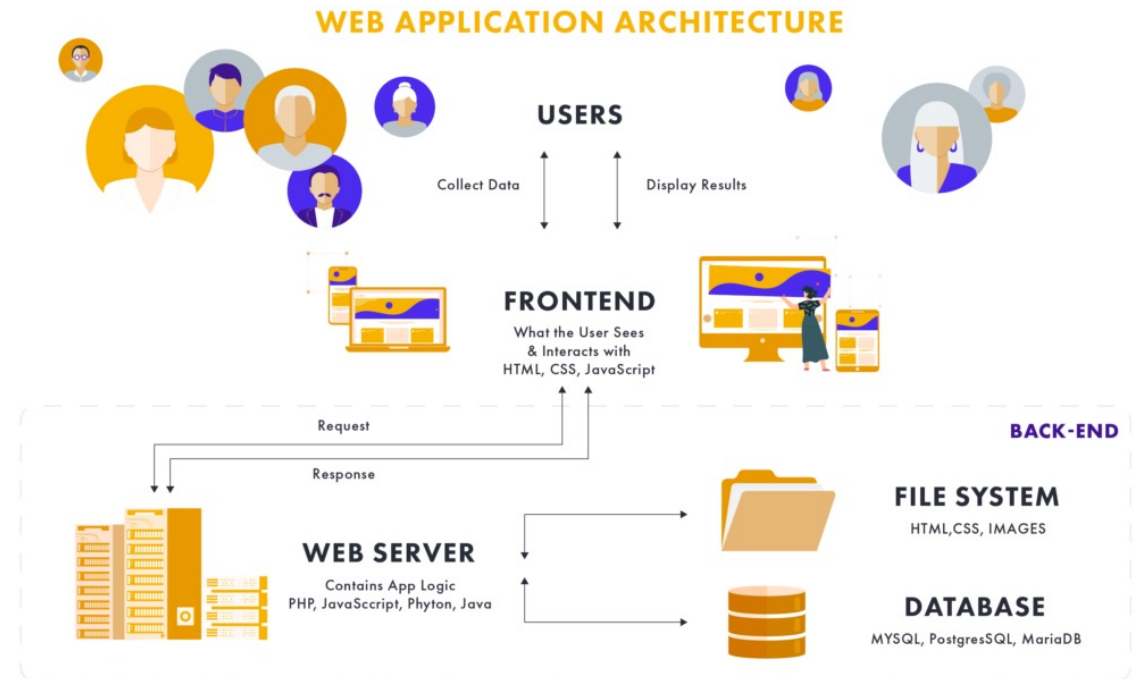# Software Design Description

Architectural Design

Architectural Design

WEB APPLICATION ARCHITECTURE

USERS

Collect Data — Display Results

FRONTEND
What the User Sees
& Interacts with
HTML, CSS, JavaScript

Request

Response

BACK-END

WEB SERVER
Contains App Logic
PHP, JavaSccript, Phyton, Java

FILE SYSTEM
HTML,CSS, IMAGES

DATABASE
MYSQL, PostgresSQL, MariaDB

Module Decomposition

Module 1: User Management

    1.1 Registration

        1.1.1 UI

        1.1.2 Class Diagram

        1.1.3 Sequence Diagram

        1.1.4 Database

    1.2 Login

    1.3 Change password

Module 2: Booking

    2.1 Searching for available dates

    2.2 Selecting services or resources

    2.3 Confirming bookings

Module 3: Inventory Management
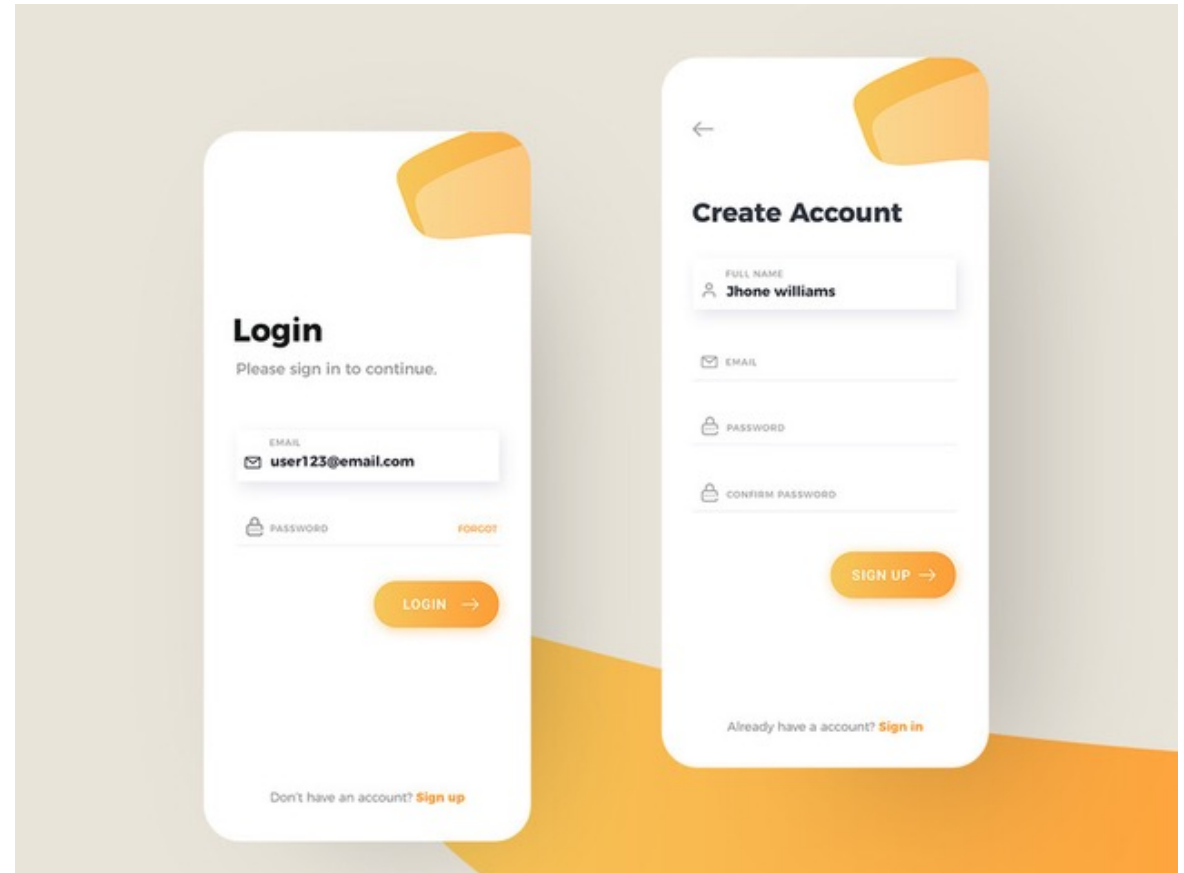
Module 4: Payment and Billing

Module 5: Notification

Module 6: Admin Dashboard

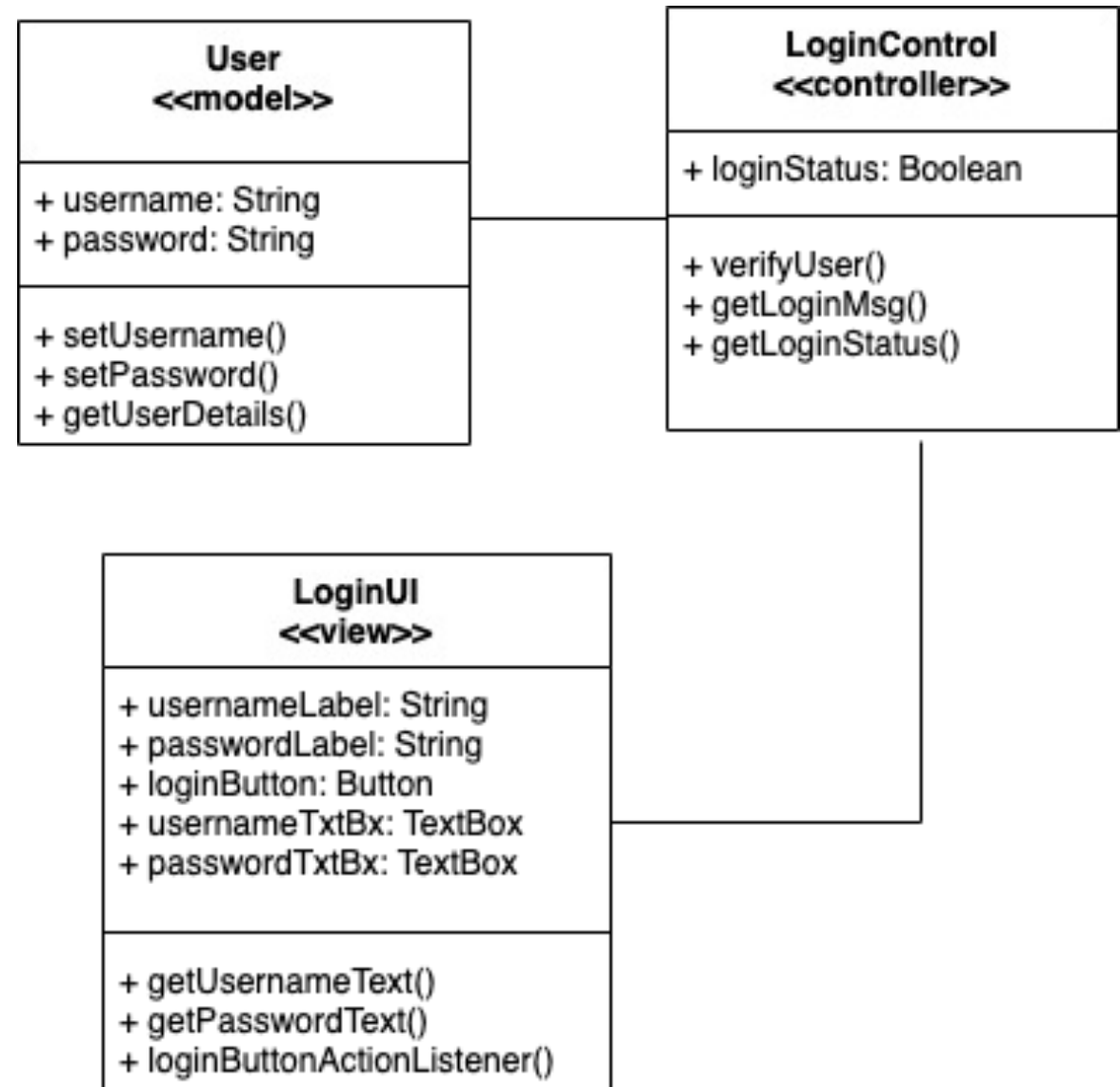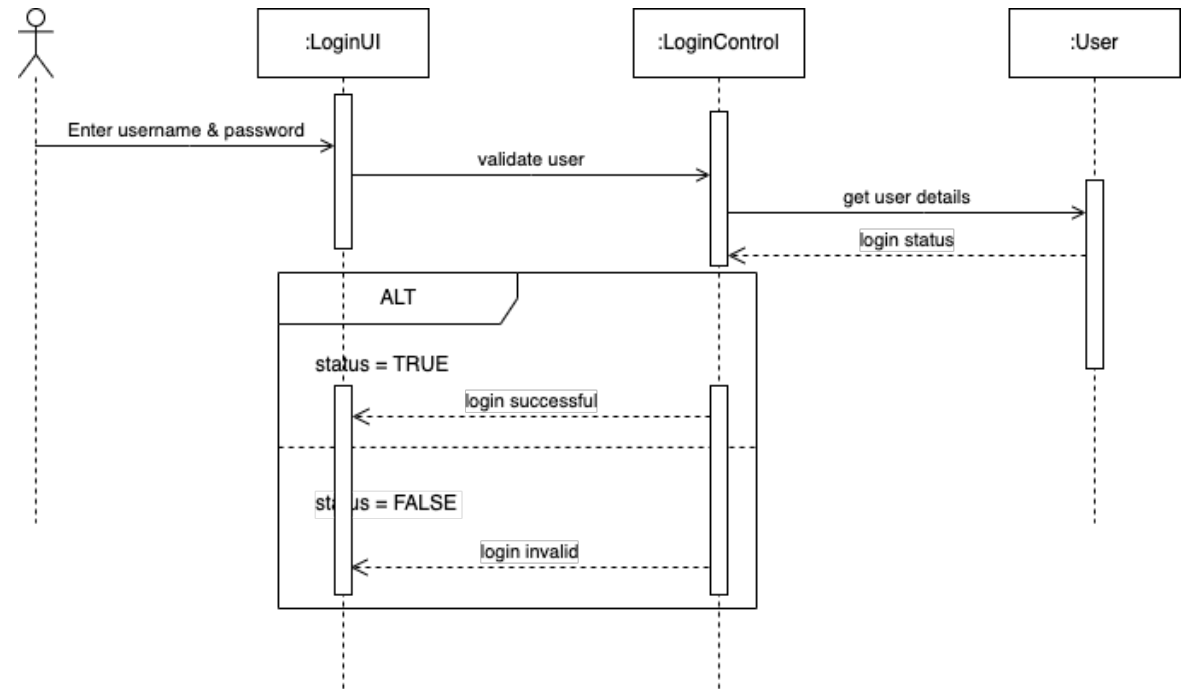Module 7: Reporting and Analytics

Module 8: Security

User Interface

Login Class Diagram

Login Sequence Diagram

Login Database Schema