

# Software Design Document

## Introduction

The following is the software design document for VisionVault: a web application for photographers to manage and share their work with clients. The document's purpose is to communicate the software design to all project stakeholders.

The following goals of VisionVault were taken into consideration when creating the software design:

- To provide a one-stop-shop solution for photographers for managing and delivering their work.
- To keep photographers' work secure while sharing and storing.
- To make clients' experience enjoyable and simple when accessing and viewing photos.
- To provide a user-friendly platform for creating, viewing, updating, and sharing photo galleries.
- To improve photographers' workflow and boost their productivity.

## System Overview

VisionVault is a web-based application designed to cater to the needs of photo industry professionals, facilitating secure, efficient management and delivery of their work. The application's front end is built with React: a JavaScript library well-known for its flexibility and efficiency in building interactive user interfaces.

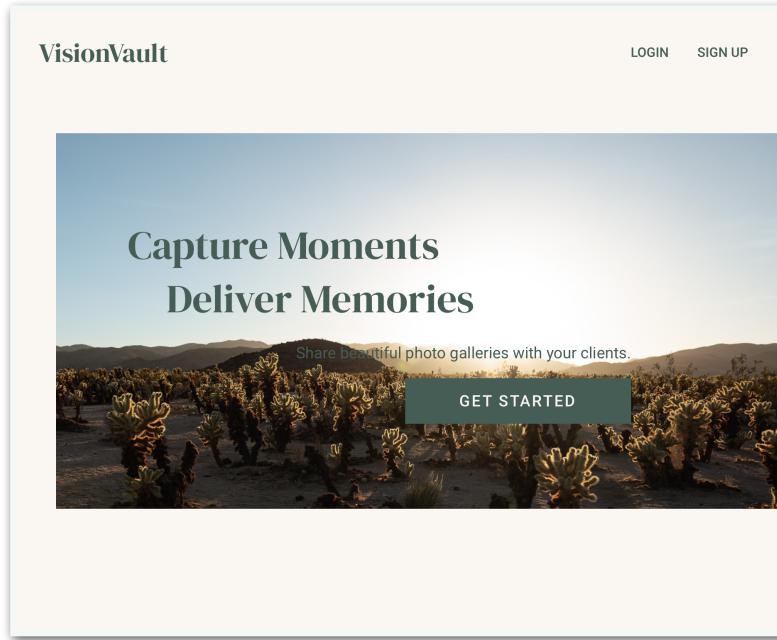
The application's back end uses Java and Spring Boot framework. The use of Spring Boot provides many benefits: it makes the application easy to set up, improve, scale, and maintain because of the extensive set of various libraries and tools developed by the Java/Spring Boot community over the years.

Postgres database system was chosen for the project. Postgres offers a wide range of tools for storing and managing extensive data sets with powerful security features, making it an ideal choice for VisionVault.

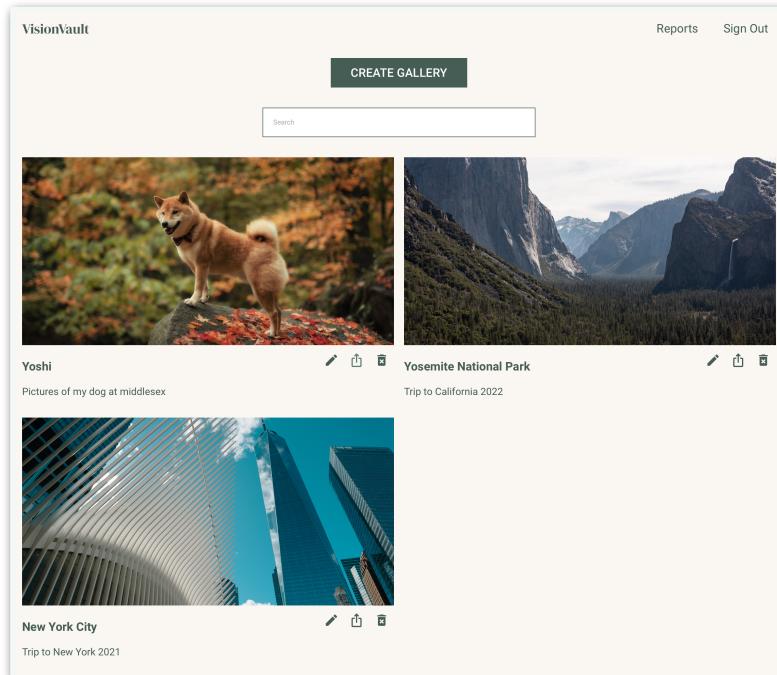
The application uses REST API for the communication between the front-end and back-end because of its simplicity, scalability, and reliability.

## User Interface Design

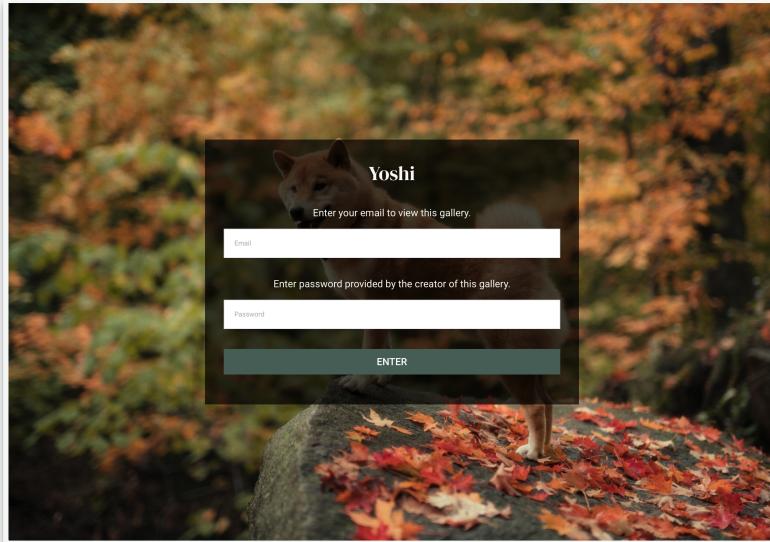
### Home Page



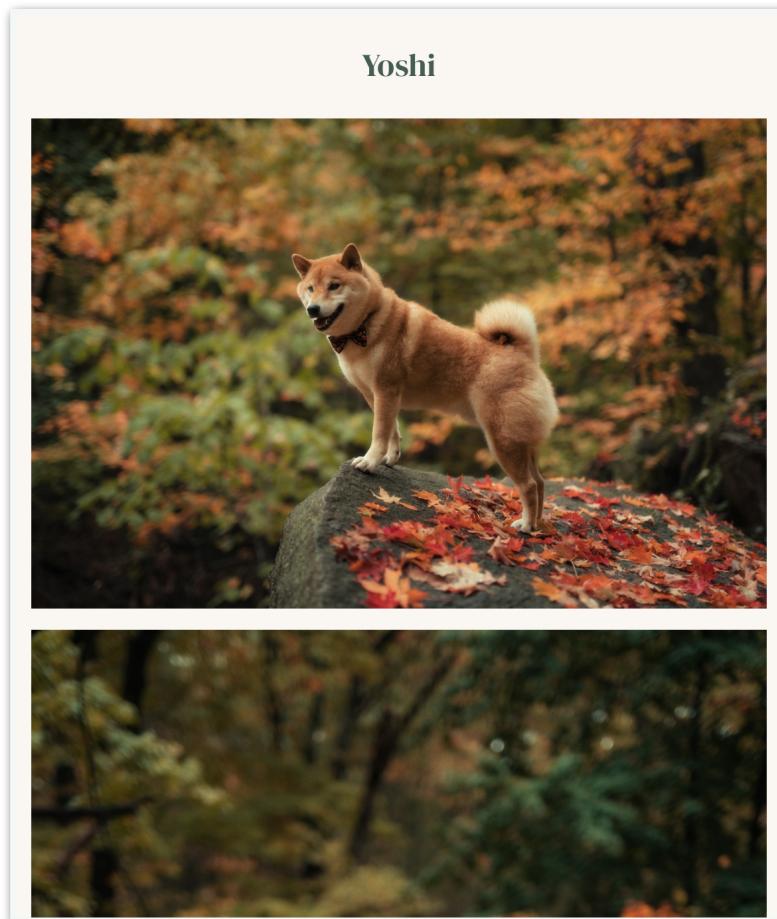
### Dashboard



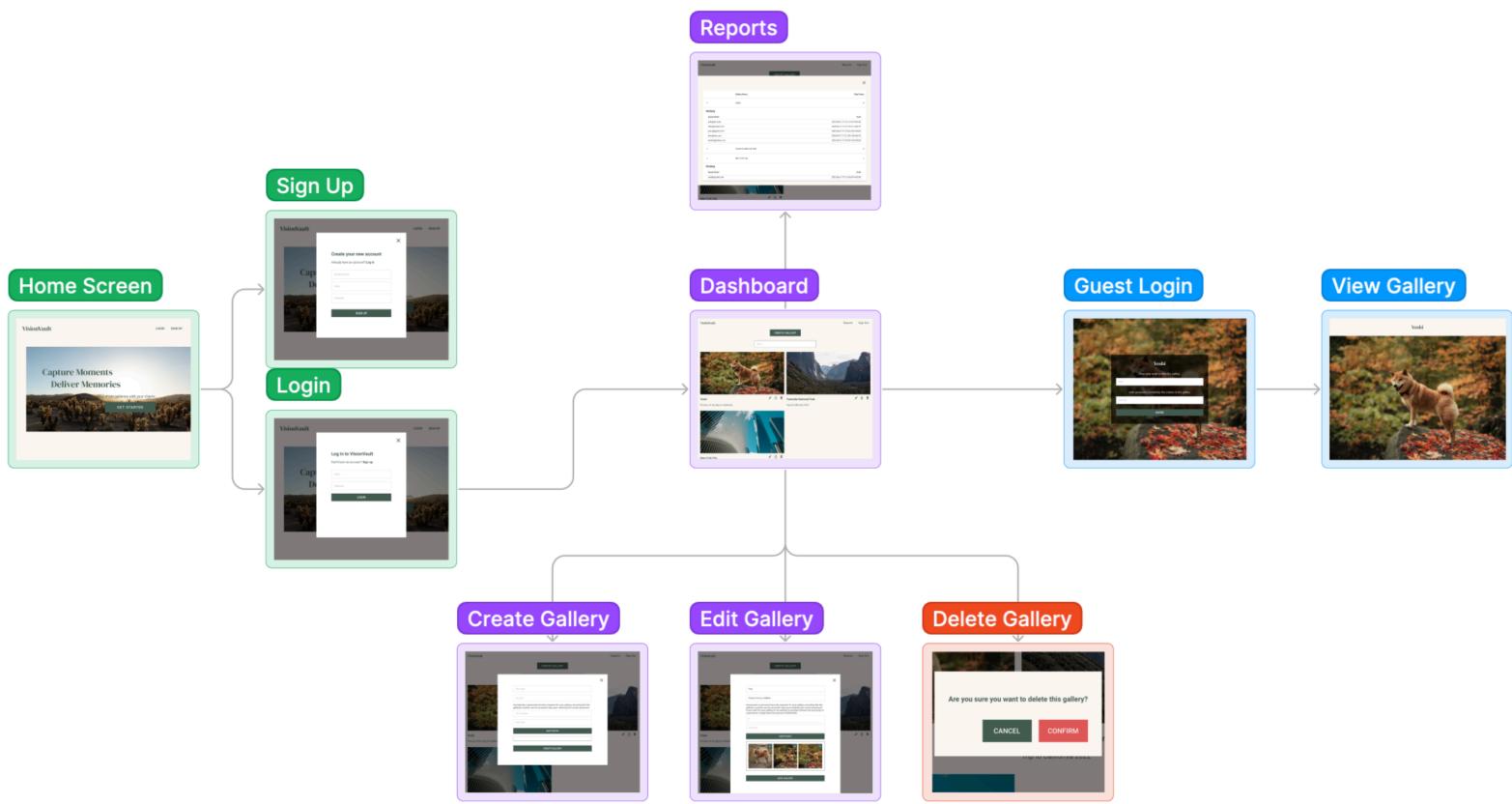
## Guest Access



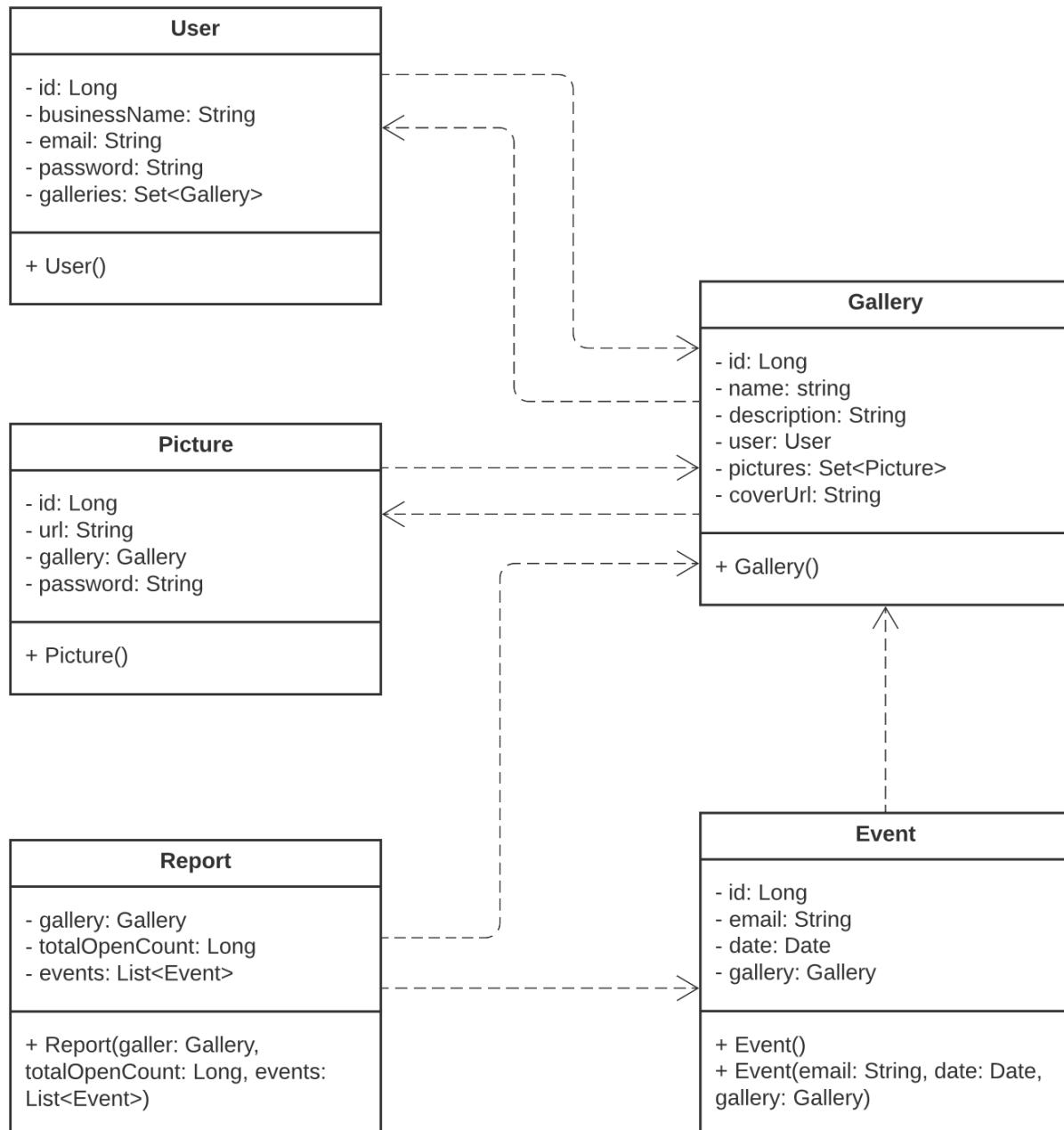
## Gallery View



## Design Diagram



## UML Diagram



F. Acknowledge sources, using in-text citations and references, for content that is quoted, paraphrased, or summarized.

All the photographs displayed here are my original work, captured by me, Andrei Kusakin.