<Project Name>
Analysis and Design Document

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Revision History

Date	Version	Description	Author
4/11/2023	1.0	Create Doc	Neagoi Mihai

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I. Project Specification

The goal of this project is to design, implement and test a web application for making microposts, similar to twitter. The application will have two types of users: a regular user and an administrator. The regular user can follow other users, make posts with what's on their mind and also upload photos of themselves. An admin can manage each user and their posts. Moreover, they can do whatever a regular user can.

II. Elaboration – Iteration 1.1

1. Domain Model

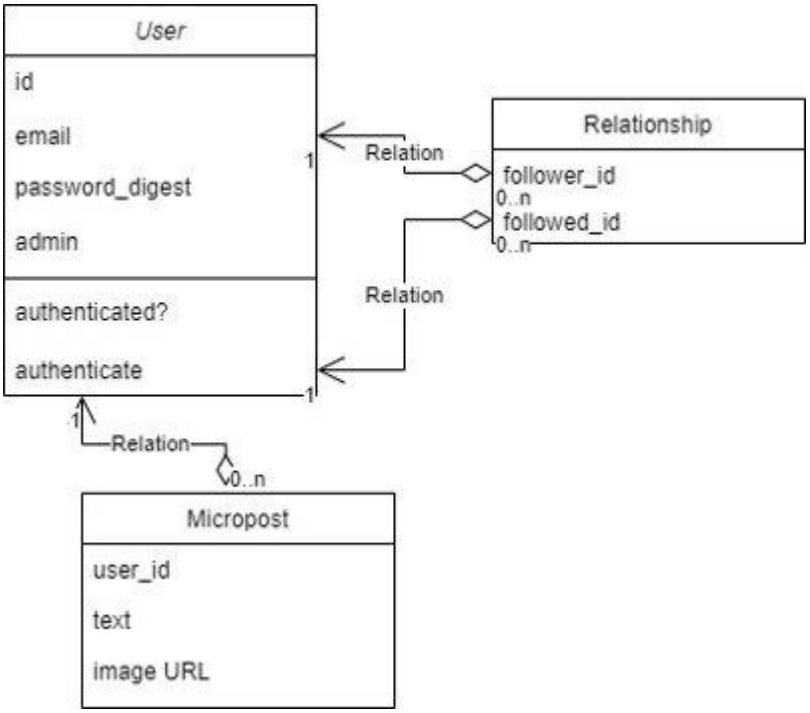


Fig 1. Users Diagram

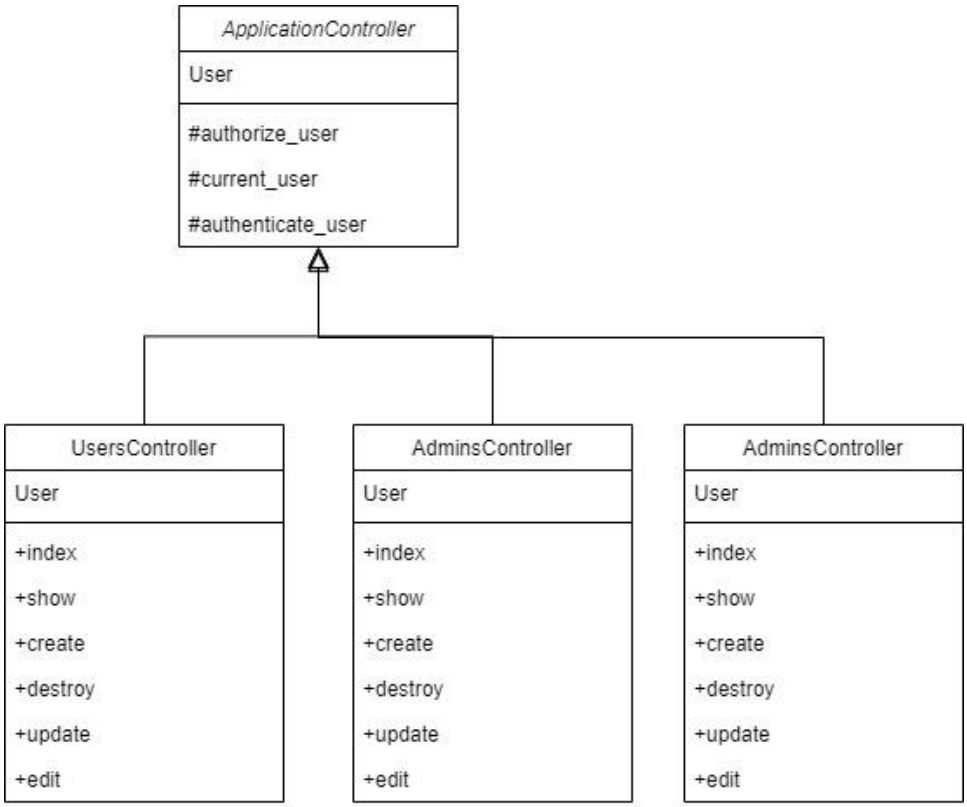
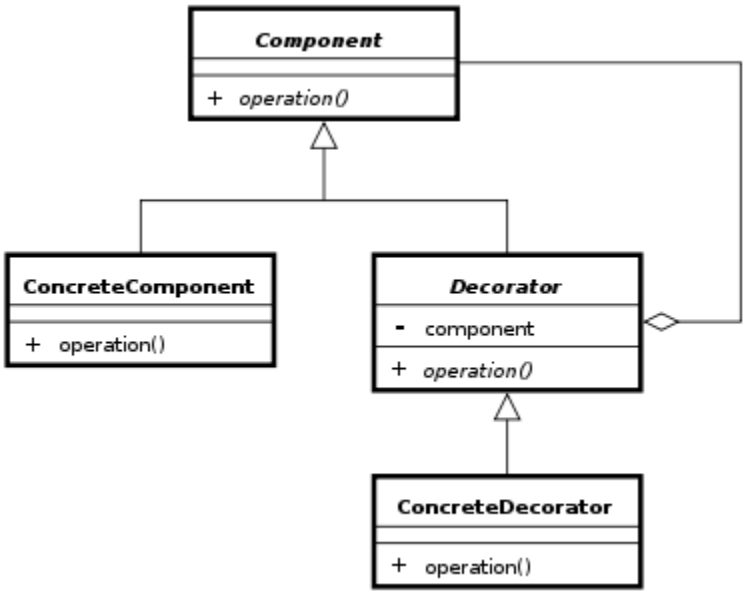


Fig 2. Controllers Diagram

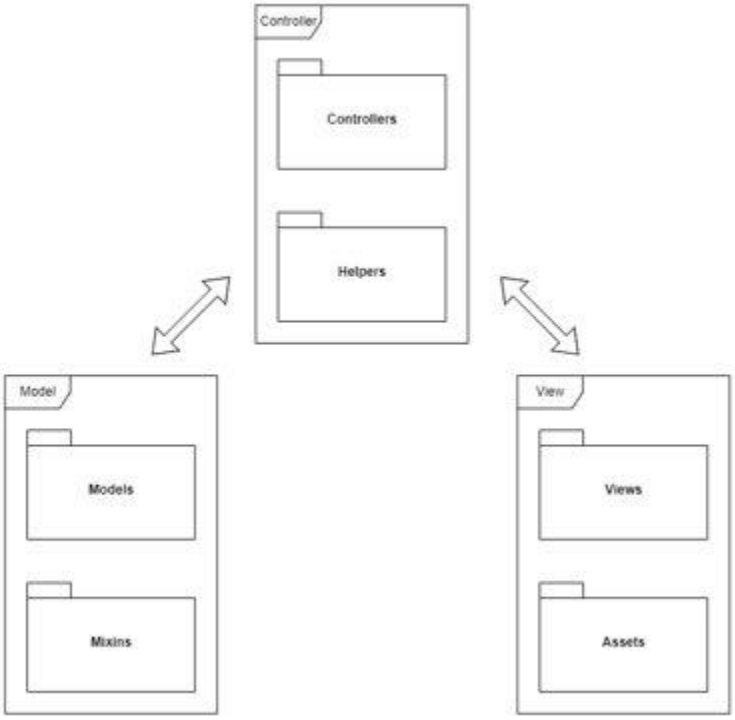
2. Architectural Design

2.1 Conceptual Architecture

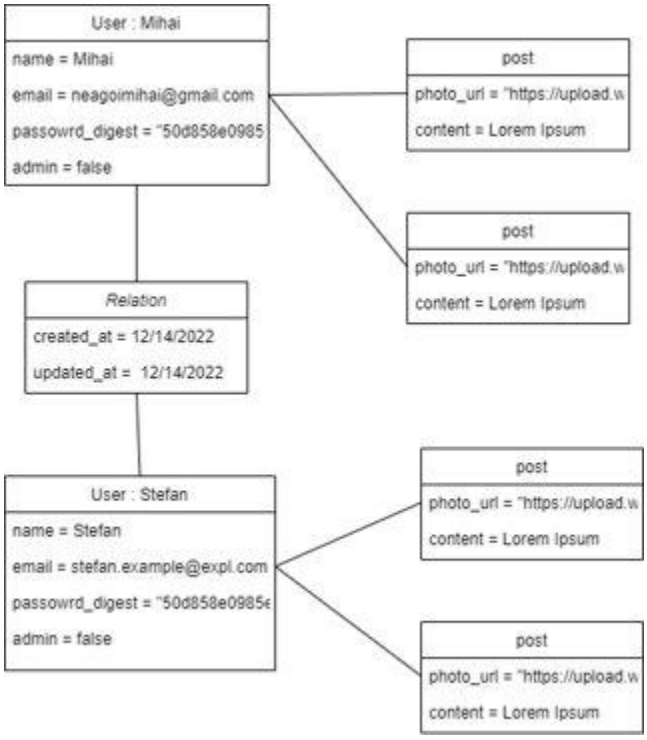


Decorator Design pattern will be used to add logic to the User model

2.2 Package Design



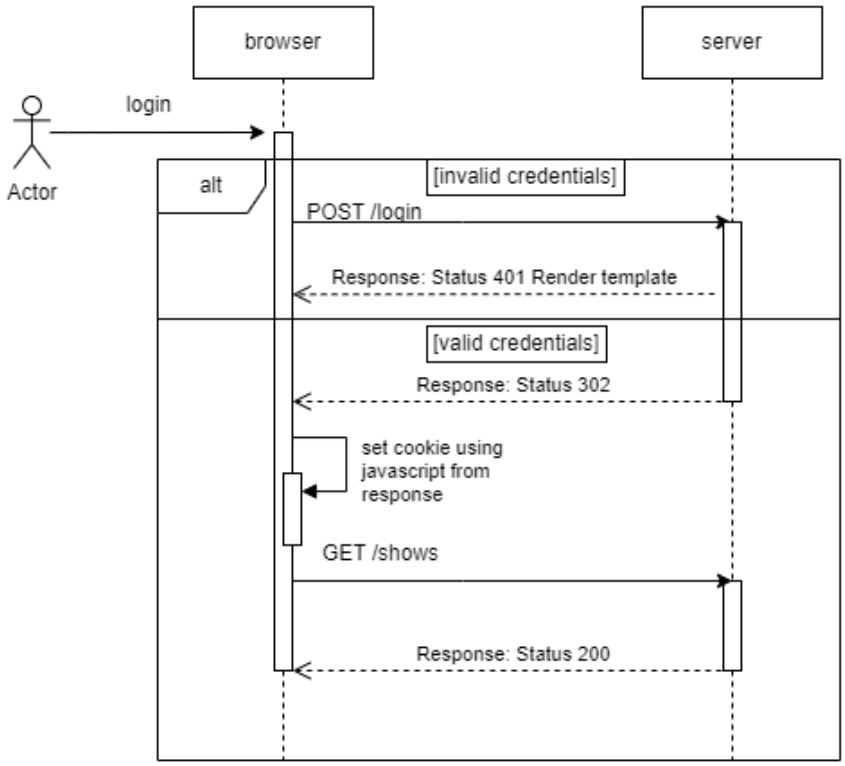
2.3 Component and Deployment Diagrams



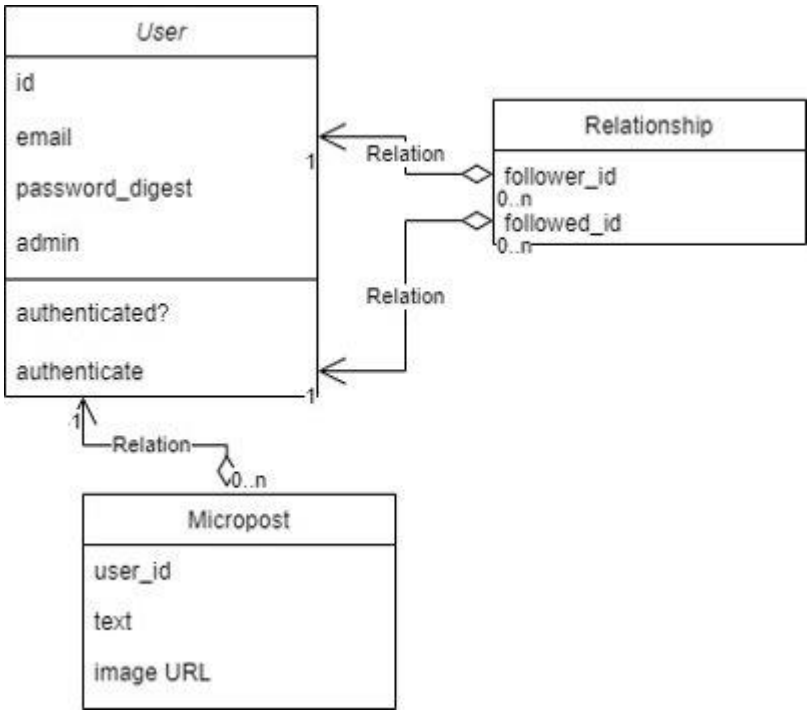
III. Elaboration – Iteration 1.2

1. Design Model

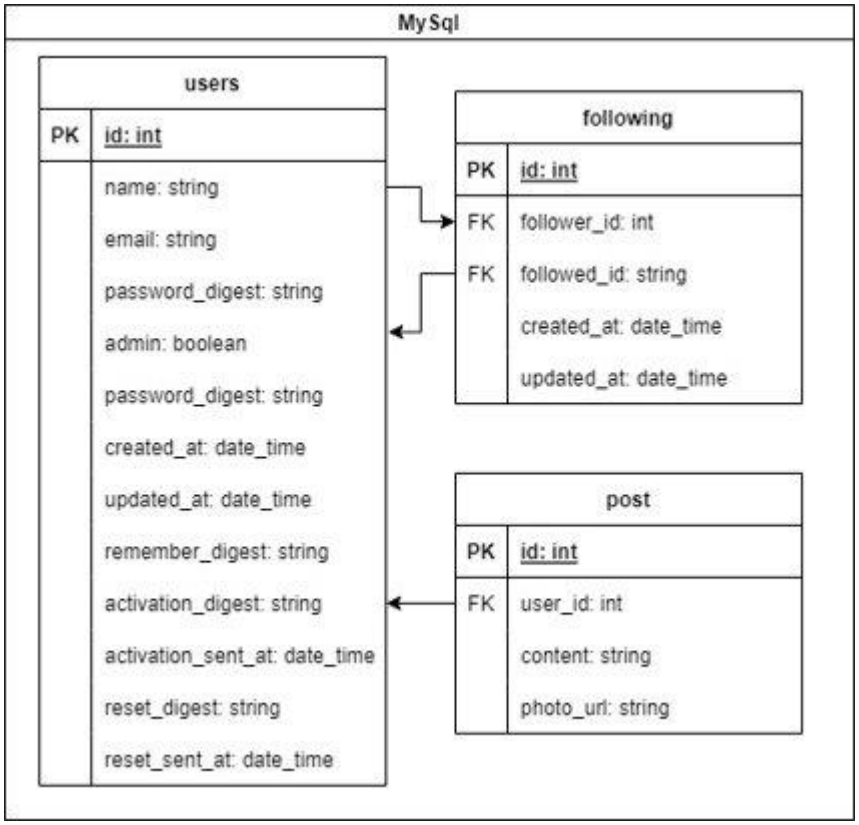
1.1 Dynamic Behavior



1.2 Class Design



2. Data Model



3. Unit Testing

Capybara testing framework will be for unit testing and fixtures to generate mock data.

IV. Elaboration – Iteration 2

1. Architectural Design Refinement

[Refine the architectural design: conceptual architecture, package design (consider package design principles), component and deployment diagrams. Motivate the changes that have been made.]

2. Design Model Refinement

[Refine the UML class diagram by applying class design principles and GRASP; motivate your choices. Deliver the updated class diagrams.]

V. Construction and Transition

1. System Testing

[Describe how you applied integration testing and present the associated test case scenarios.]

2. Future improvements

[Present future improvements for the system]

VI. Bibliography