Local Messaging System Report

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Project Programming Language and Framework

Java,
Spring Boot,
POSTGRESQL,
WEB APP

Introduction

Our Local Messaging System is a web application developed with Java, Spring Boot, and PostgreSQL. It allows users to send and receive messages with other users within their local network. The system supports one-to-one and group messaging, and offers a user-friendly interface for composing and managing messages. It is designed to be robust, secure, and scalable, providing a cutting-edge solution for local network communication.
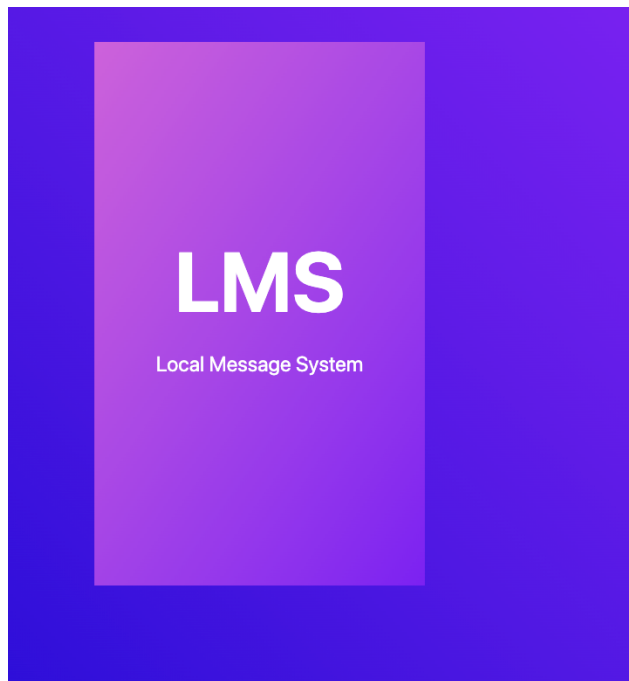
Project Plan

1. Setup Project + SQL database **Shuming**
2. UI **Shijie**
3. User Authentication Module: This module handles the user authentication process, including user registration, login, and password reset functionality. You will need to implement secure password storage and use libraries such as Spring Security to prevent unauthorized access to the application. **Shuming + Shijie (Mar, 22)**

4. User Management Module: **Duc + Lei (Mar, 24)**
   a. Edit user profiles (**Lei**)
   b. Change user avatar image (**Duc**)

5. Chat Room Management Module: This module manages chat rooms and their associated data. It includes features such as creating and joining chat rooms, displaying active chat rooms, and listing the chat room participants. **Shuming + Shijie** (Mar, 27)

6. Messaging Module: This module handles real-time messaging between users in a chat room. It includes features such as sending and receiving messages, displaying message history, and implementing real-time notifications for new messages. **Duc + Lei** (Mar, 27)
7. Testing.

Challenges

1. Learn a new framework.
2. Understand configuration of the application.
3. Build a web application from scratch.
4. Communication gap, and the team does not collaborate effectively.

Project Screenshots

LMS

Local Message System
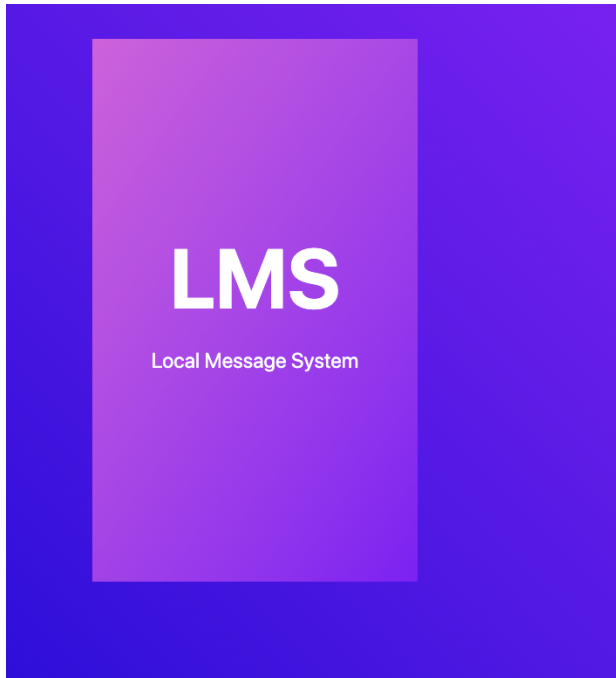
REGISTER

Please complete to create your account.

First Name
Enter your First Name

Last Name
Enter your Last Name

Username
Enter your username

Email
Enter your email

Title
Enter your title

Password
Enter your password

Confirm Password
Enter confirm your passwo

Register   Back To Login

CHAT

CONTACT

SETTING

LOGOUT

Search Name...

test3 test3

test2 test2
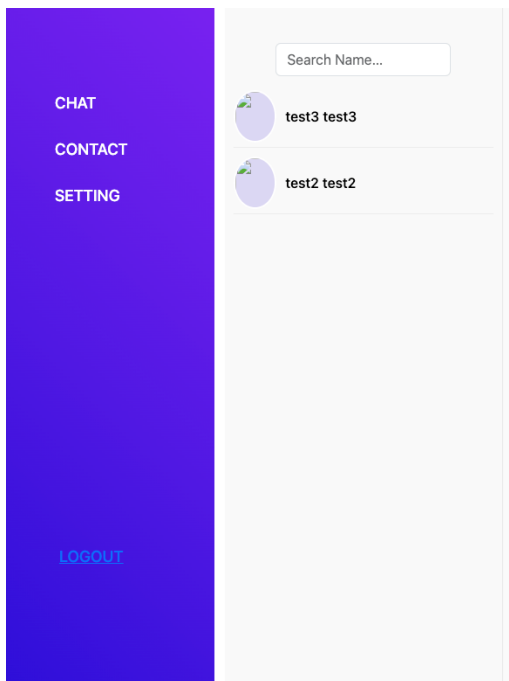
test3 test3

test@email.com

Developer

20, Feb. 2020 JOINED

Message   Clear Message

SETTING

CHAT

CONTACT

SETTING

userName

test2

firstName

test2

lastName

test2

email

test2@email.com

title

Manager

imageAddress

imageAddress

save delete

LOGOUT

CHAT

CONTACT

SETTING

LOGOUT

Search Name...

test3 test3

test2 test2

Aidan   12:00
Hi, how are you?

Aidan   12:00
Hi, how are you?

Aidan   12:00
Hi, how are you? how are you? how are you? how are you? how are
you? how are you? how are you? how are you? how are you? how
you? how are you? how are you? how are you? how are you? how are
you? how are you?

Type your message here...   Send

Conclution

Building a Local Messaging System is a challenging task. Despite the challenges, we successfully built a Local Messaging System that provides an efficient and user-friendly platform for communication within a local network. Through collaboration, determination, and

perseverance, we overcame technical obstacles and delivered this application that meets the needs of our users.