

# Project Description

---

Title: **Diddyscord**

## Description:

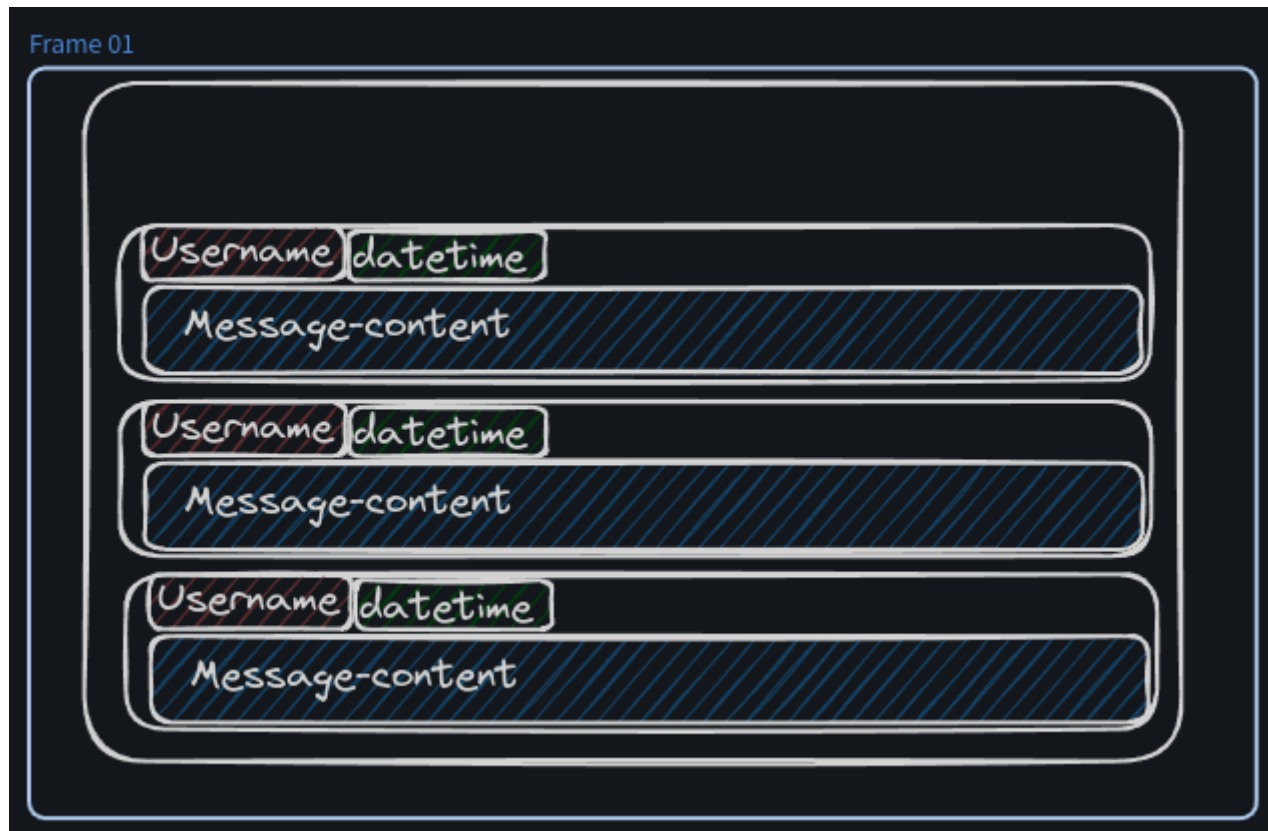
Diddyscord is a real-time chat application designed to facilitate seamless communication between users. With Diddyscord, users can register, send friend requests, and engage in private or group chats. The app guarantees that messages are sent instantly, enabling immediate communication. Users have the ability to see their chat history, handle friend requests, and get alerts about new messages and friend requests. Diddyscord strives to offer a platform that is both user-friendly and efficient for keeping in touch with friends and colleagues.

User Stories:

## Chatroom

As a User I am able to get in a chat available to me so that I can view messages in a chatroom

Wireframe



Acceptance Criteria

- Ability to view messages linked to a specific chatroom.
- Should display the user that sent the message, the date and time of the message being sent, and the message content.
- Orders them by most recent at the bottom.
- The ability to scroll up to view the message history.

## Overview Chatrooms

As a User I am able to get a list of chatrooms I am assigned to so that I can see which chatrooms are available for me

Wireframe



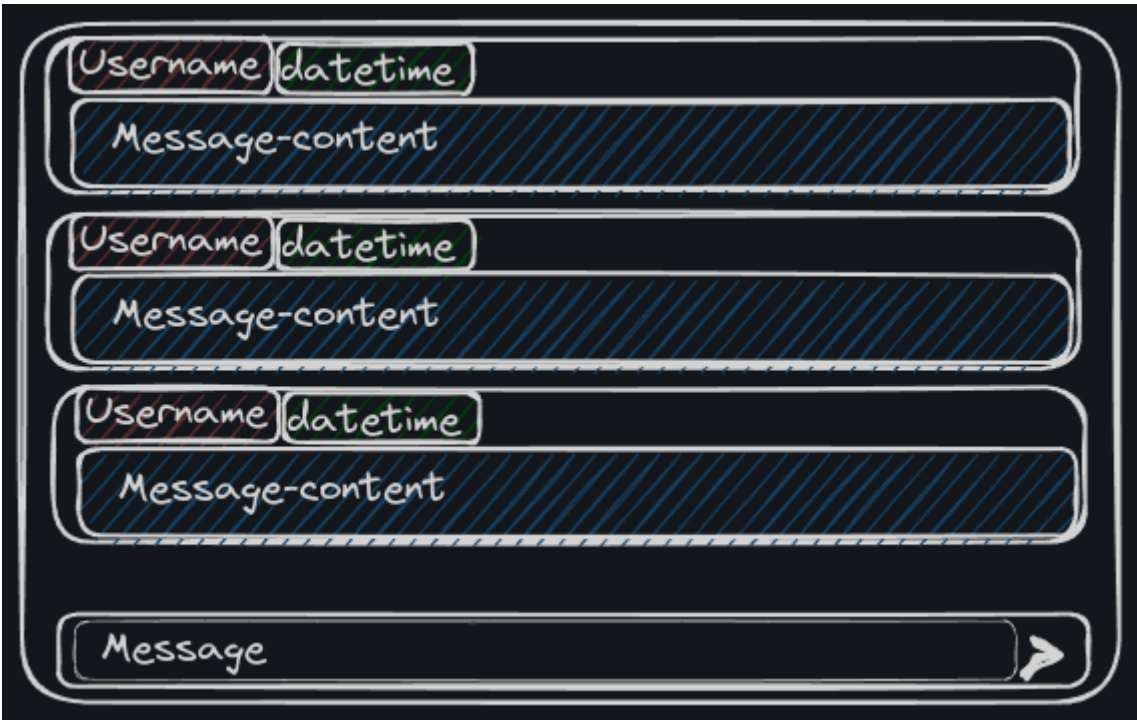
Acceptance Criteria

- A list of chats with their name displayed.
- When a chat is clicked, the chat needs to be highlighted.
- When a chat is clicked, the chat should open on the screen.

Send Message

As a User I am able to send a message to another user so that I can communicate with them

Wireframe



Acceptance Criteria

- Ability to type and send a message.
- The message should appear in the chatroom in real-time.
- The message should be stored in the database with the correct sender and receiver information.

## Receive Message

As a User I am able to receive messages from another user in real-time so that I can communicate with them

### Acceptance Criteria

- Messages sent by another user should appear in the chatroom in real-time.
- The message should be stored in the database with the correct sender and receiver information.

## Friend Request

As a User I am able to send a friend request to another user so that I can associate with a user

### Wireframe



- Clicking on a user shows a popup that allows you to send a friend request.

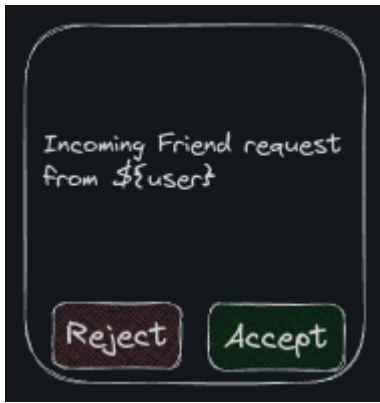
### Acceptance Criteria

- Ability to send a friend request to another user.
- The friend request should be stored in the database with the correct sender and receiver information.

## Overview Friend Requests

As a User I am able to view my friend requests so that I can accept or reject a request

### Wireframe



## Acceptance Criteria

- Ability to view pending friend requests.
- Ability to accept or reject a friend request.
- The friend request status should be updated in the database.

## Chat API

### Endpoints:

#### 1. User Authentication:

- `POST /api/auth/register`: Register a new user.
- `POST /api/auth/login`: Log in a user.
- `POST /api/auth/logout`: Log out a user.

#### 2. Friend Requests:

- `POST /api/friends/request`: Send a friend request.
- `GET /api/friends/requests`: Get pending friend requests.
- `POST /api/friends/requests/{requestId}/accept`: Accept a friend request.
- `POST /api/friends/requests/{requestId}/reject`: Reject a friend request.

#### 3. Chats:

- `GET /api/chats`: Get a list of chatrooms for the user.
- `GET /api/chats/{chatId}`: Get messages for a specific chatroom.
- `POST /api/chats/{chatId}/messages`: Send a message to a chatroom.

#### 4. Real-time Messaging:

- Implement WebSocket in the backend for real-time messaging as the database supports WebSockets.

