

## **WorkBridge: High Level Design**

Team: **WorkBridge Development Team**

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### **1. System Components Overview**

The system is composed of the following key components:

#### **1. Authentication & User Management Service**

- Handles user login, registration.
- Manages user roles and permissions.

#### **2. Feed Service (Posts & Comments)**

- Manages organizational feed posts, comments, and reactions.
- Implements filters by keyword, date, or tags.

#### **3. Chat Service (Real-time Messaging)**

- Supports private and group chats.

#### **4. Storage Service**

- Manages profile images, file uploads, and post attachments.

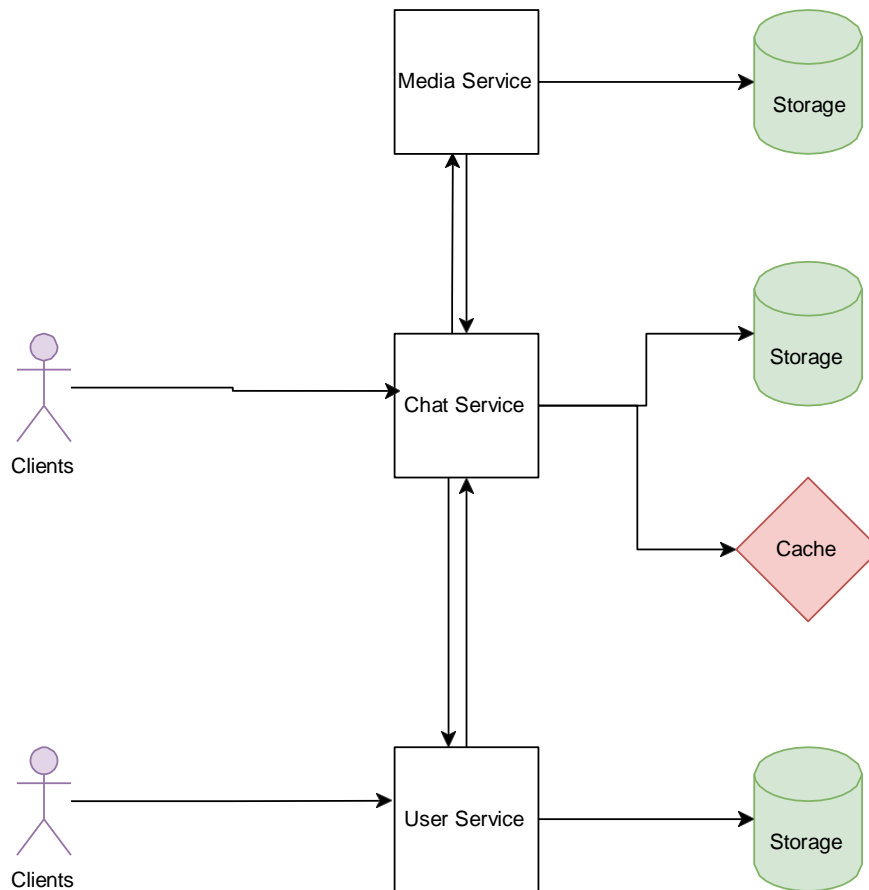
#### **5. Frontend Application (React.js)**

- User-friendly UI for interacting with the platform.

#### **6. Kubernetes Infrastructure**

- Manages containerized microservices.

This is a high-level overview of the main components that your system will be composed:



## 2. User Flow & Use Cases

### 1. User Authentication

- Users log in ,Upon login, they access their personalized feed and chat.

### 2. Posting in the Organizational Feed

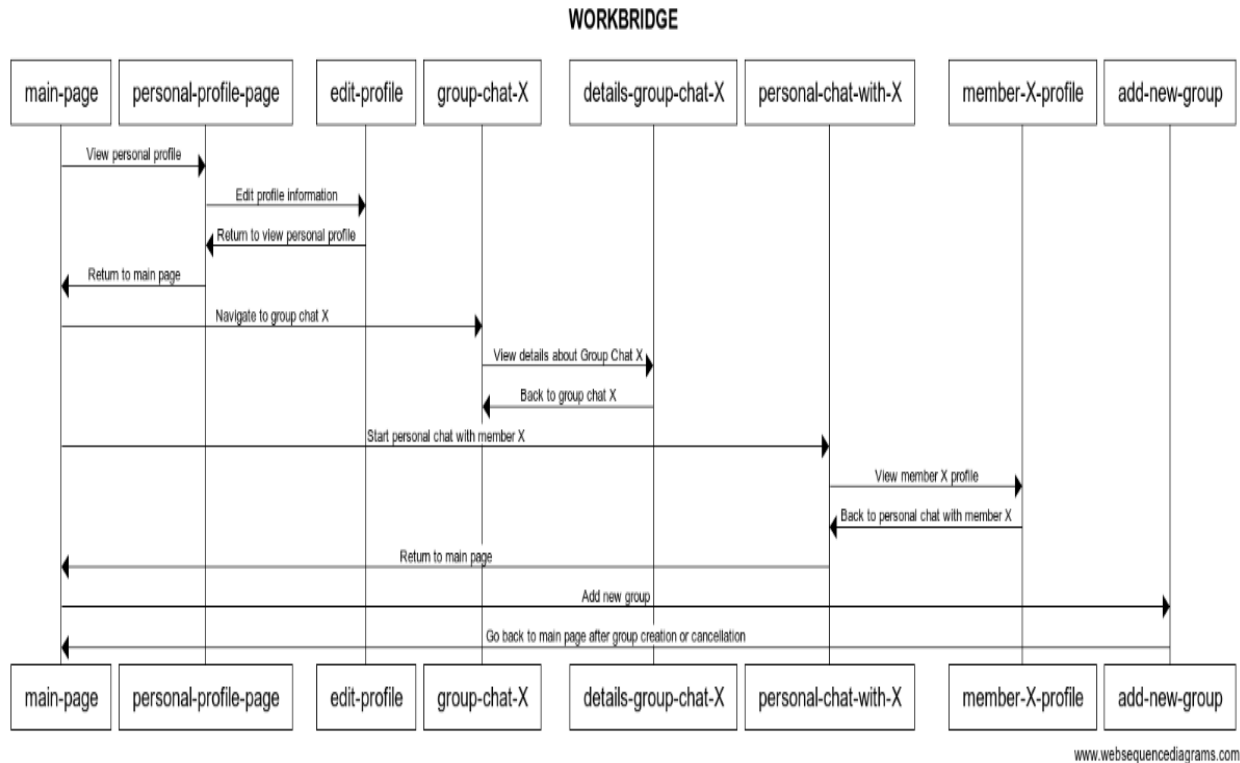
- Users can create posts, add images, and interact via likes/comments.

### 3. Chat Messaging

- Users can initiate private or group chats.

### 4. Managing Profile Information

- Users update profile details and work status.



### 3. Frontend Technology

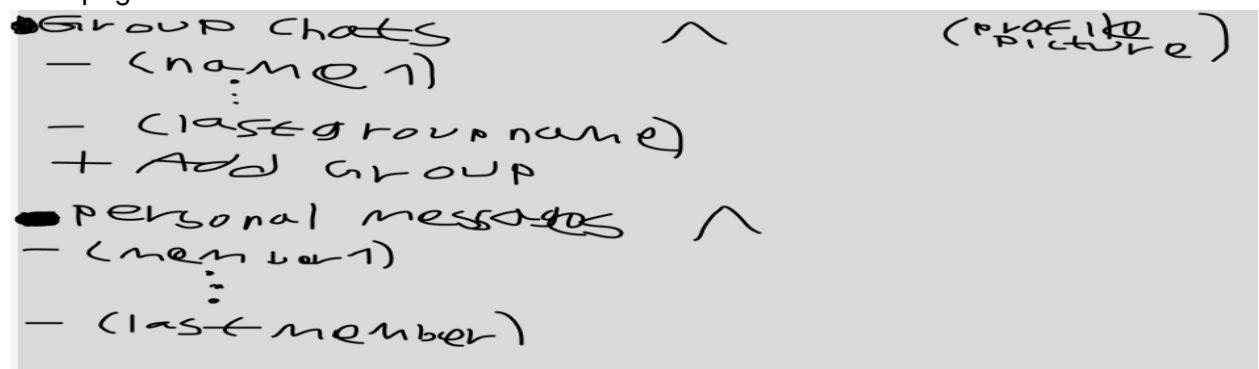
- The frontend is built using **React.js**

### 4. Mockups for Main Pages

#### 1. Dashboard (Homepage)

- Displays the organizational feed with the latest updates.
- Provides quick access to chat, notifications, and profile settings.

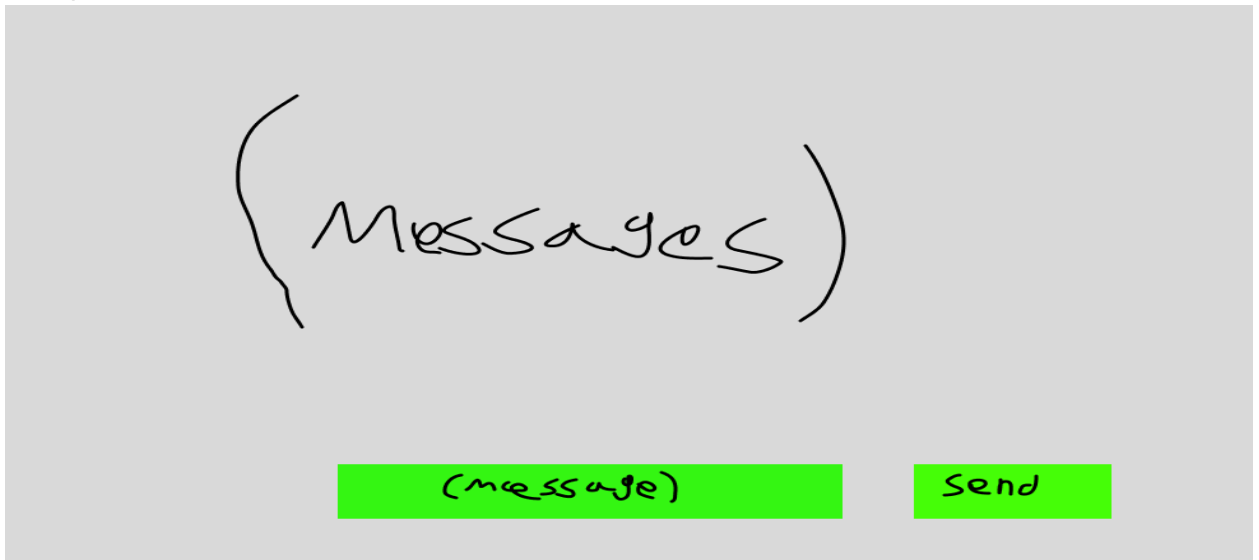
Main page screen:



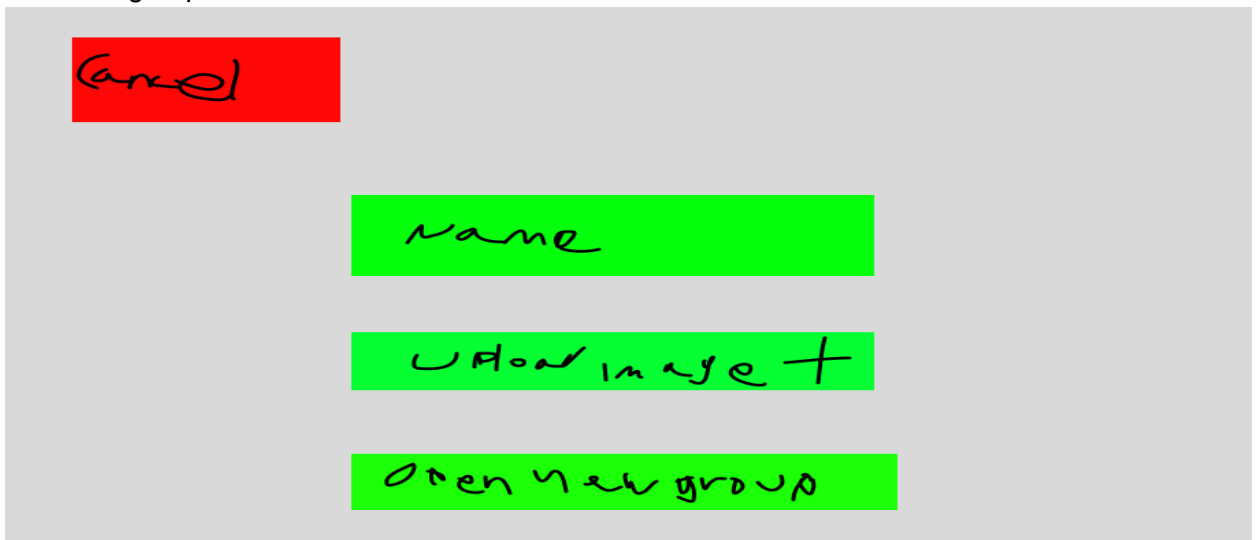
## 2. Group Chat

- Real-time messaging with file sharing.

Group chat screen:



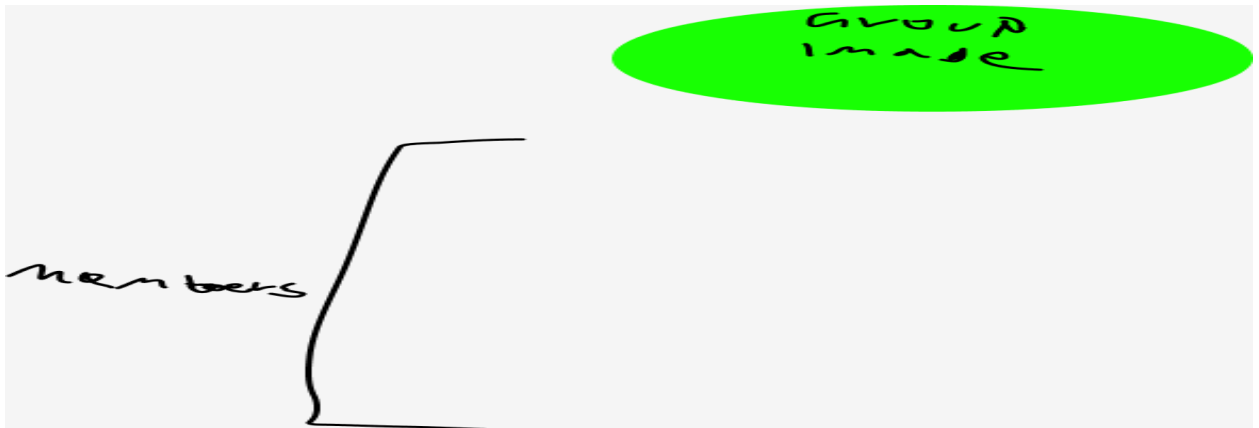
Add new group screen:



### 3. Chat Details

- Displays group details

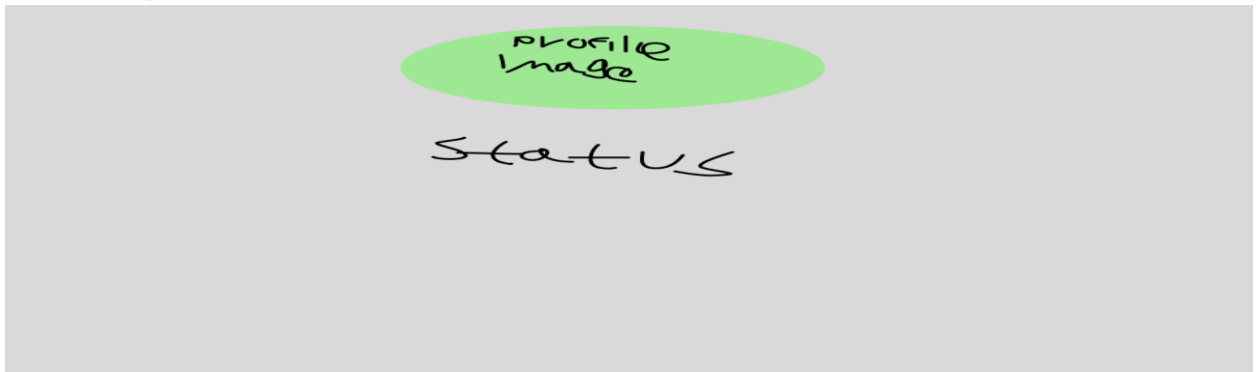
Chat details screen:



### 4. User Profile Page

- Displays user's profile, name, role, and activity history.

Member-x-profile screen:



Personal profile page screen:

