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. **User Service**
   - Handles user login, registration.
   - Manages user roles and permissions.
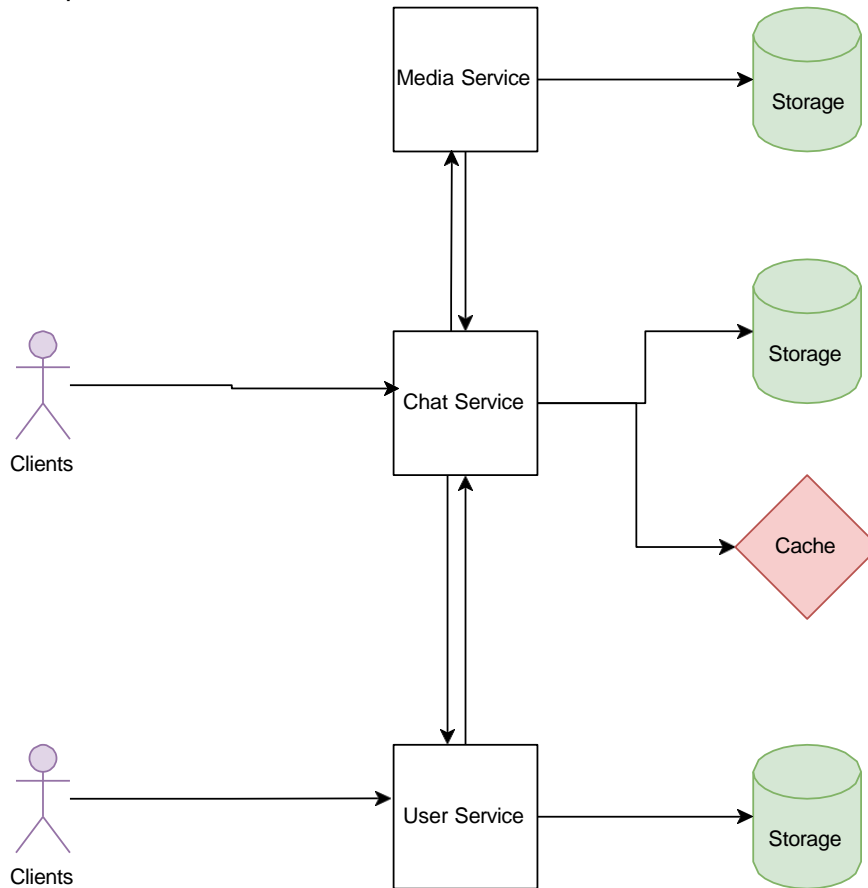
2. **Chat Service (Real-time Messaging**)
   - Supports private and group chats.

3. **Media Service**
   - Manages profile images, file uploads, and post attachments.

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

2. **User Flow & Use Cases**
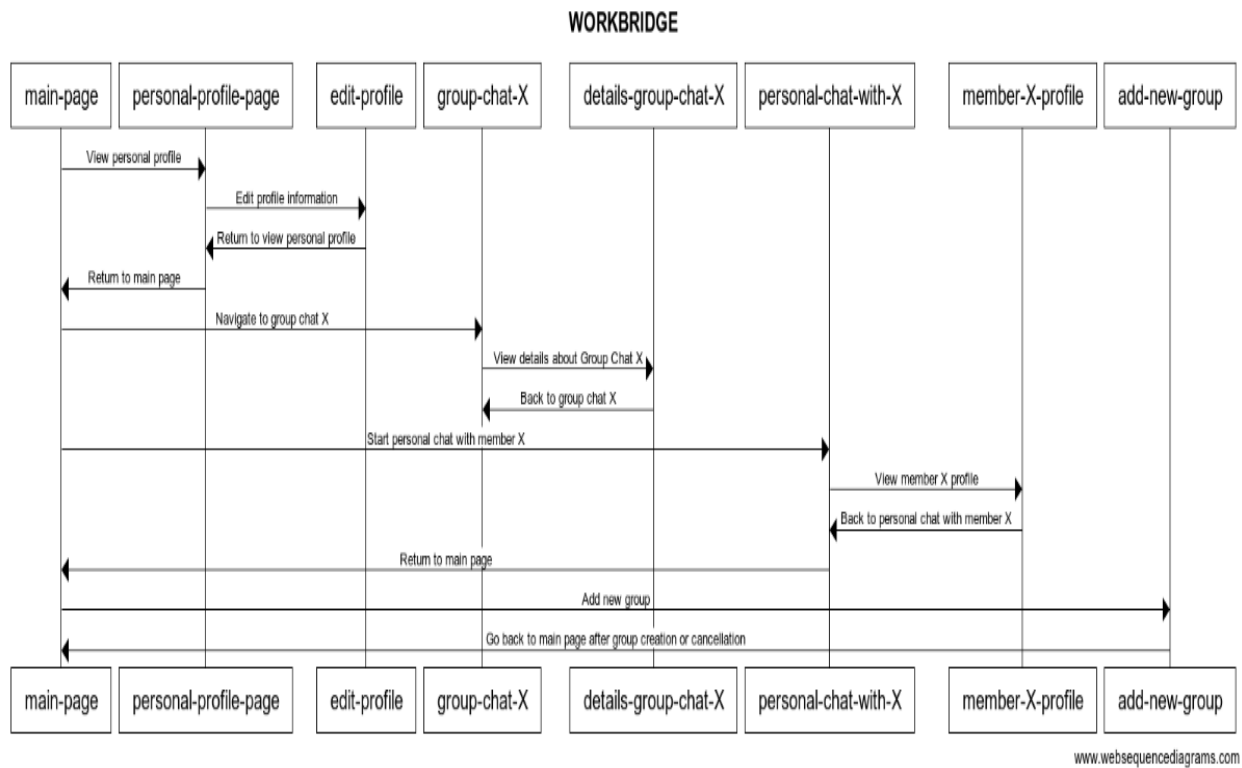
1. **User Authentication**
   - Users log in ,Upon login, they can access their personalized settings.

   1. Endpoint: /register   Method: POST – register.
   2. Endpoint: /login   Method: POST – login.
   3. Endpoint: /settings   Method: GET – get users settings.
   4. Endpoint: /settings   Methoid: PUT – update user settings.

2. **Chat Messaging**
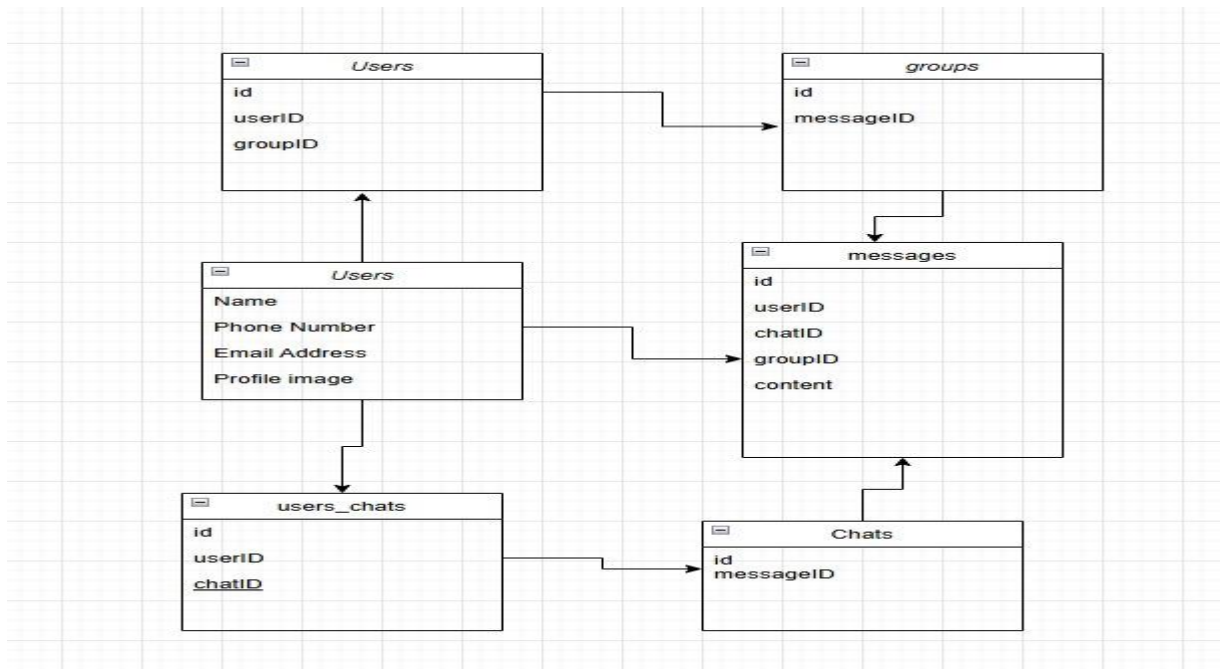   - Users can initiate private or group chats.

   1. Endpoint: /home   Method: GET – retrieve channels.
   2. Endpoint: /chats/{chat_id}   Method: GET – retrieve chat content.
   3. Endpoint: /chats/{chat_id}   Method: POST – send message.
   4. Endpoint: /chats/create   Method: POST – create new group.

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3. **Frontend Technology**
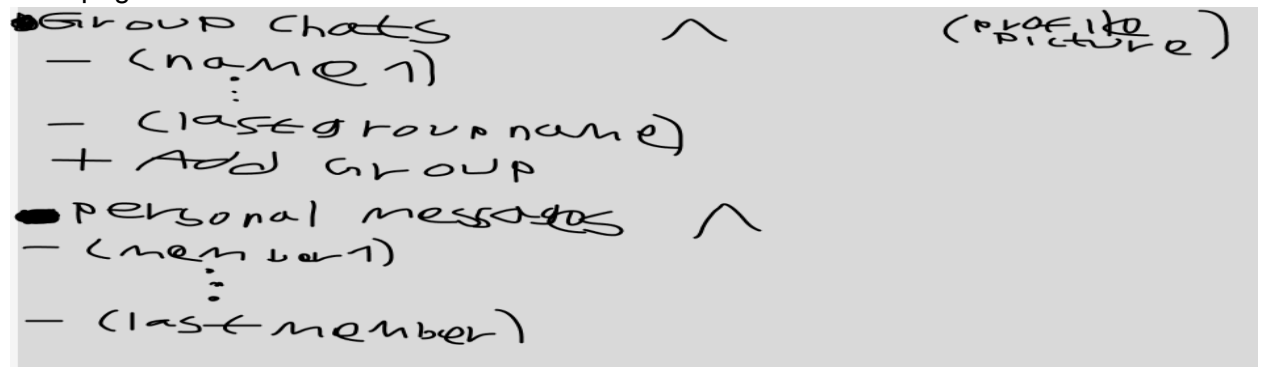   - The frontend is built using **React.js**

Data Model:

4. **Mockups for Main Pages**

1. **Dashboard (Homepage)**
- Displays the organizational feed with the latest updates.
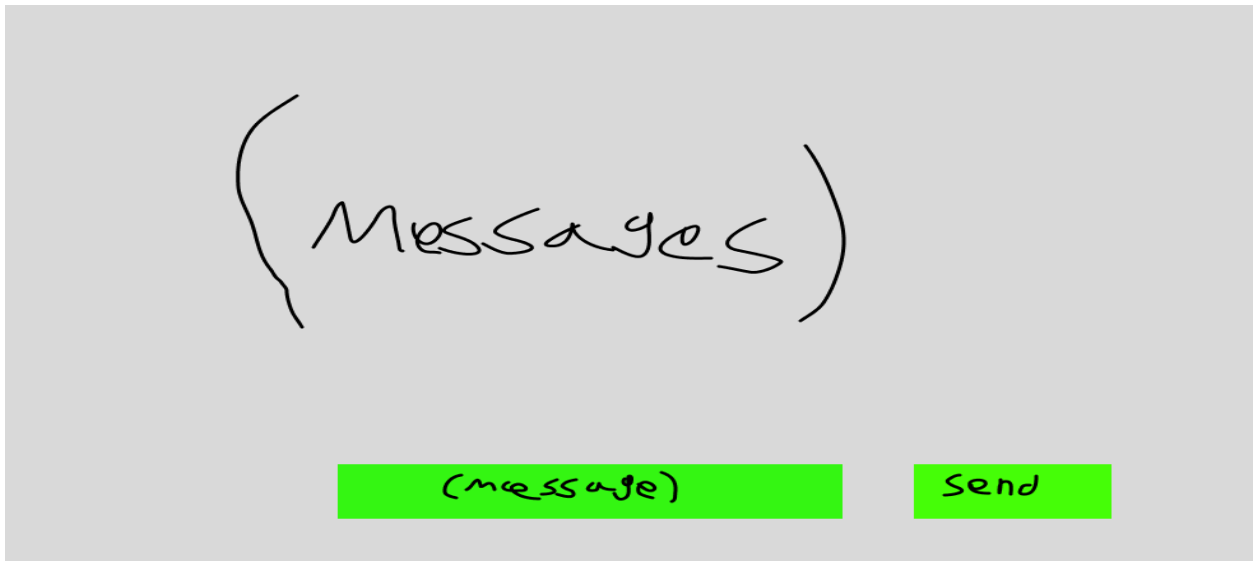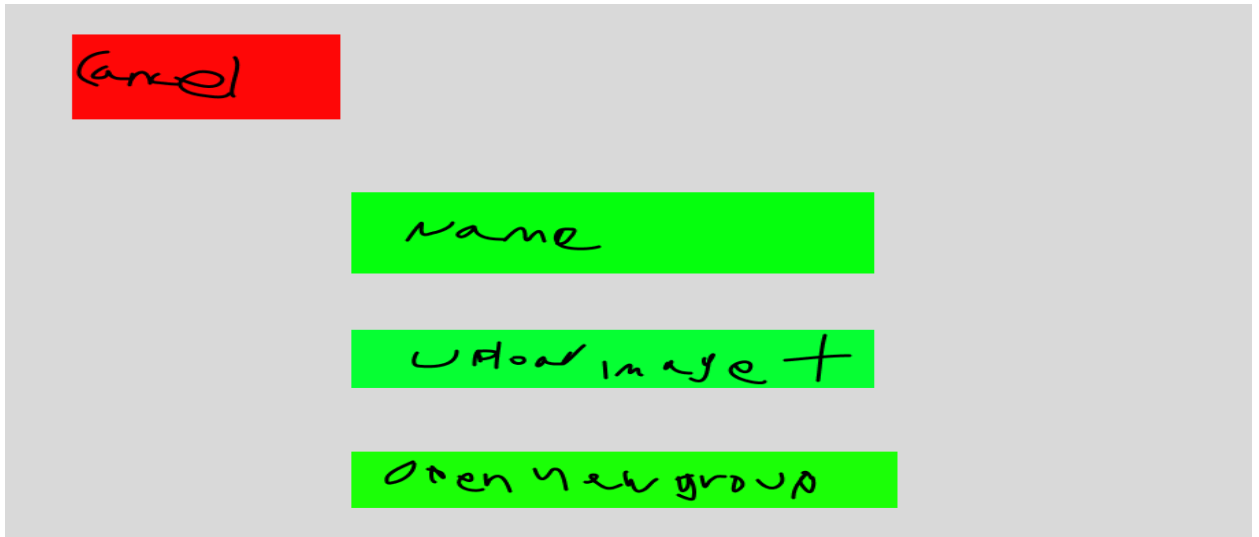- Provides quick access to chat, notifications, and profile settings.
Main page screen:

2. **Group Chat**
- Real-time messaging with file sharing.
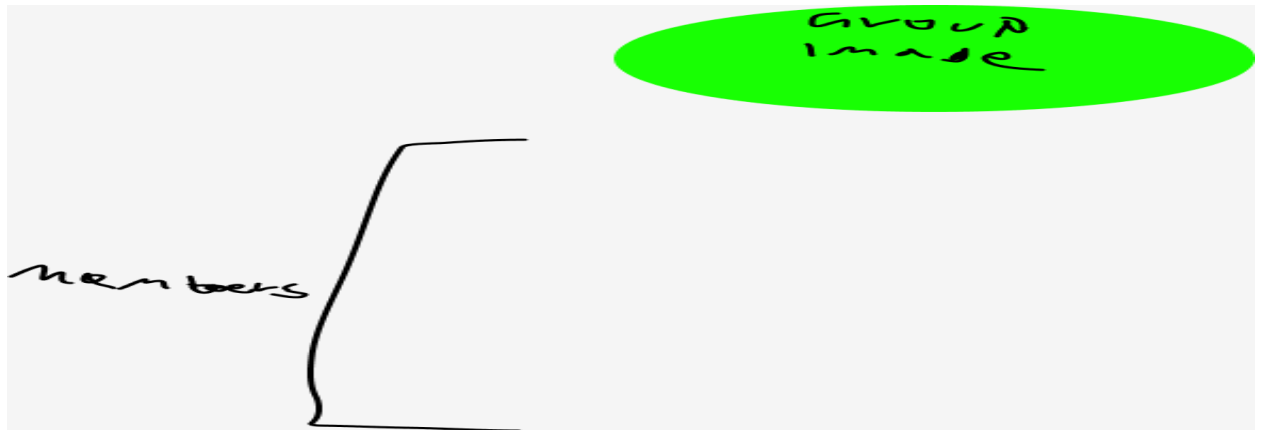Group chat screen:

(Messages)

(message)   send

Add new group screen:

(cancel)

Name

Upload image +

Open new group

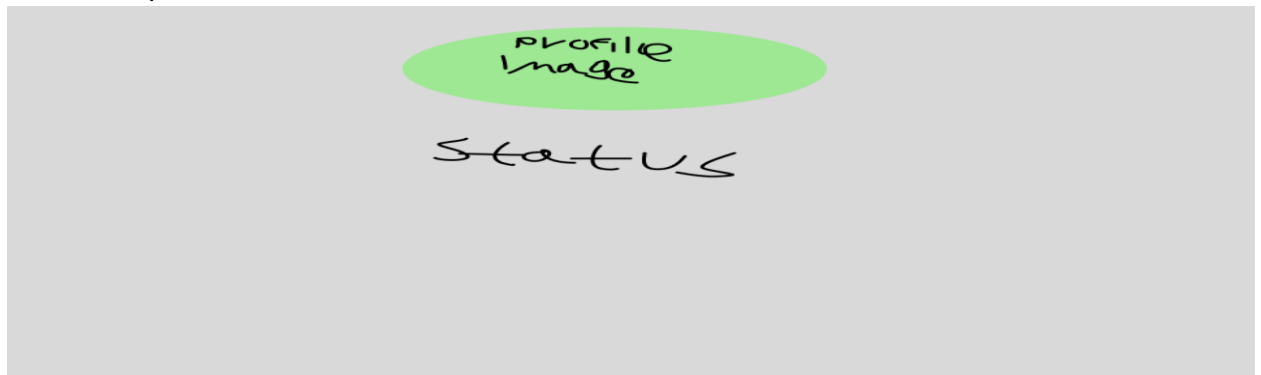3. **Chat Details**
- Displays group details

Chat details screen:

Group Image

members

4. **User Profile Page**
- Displays user's profile, name, role, and activity history.
Member-x-profile screen:

Profile Image

Status

Personal profile page screen:

Profile Image

Exit profile

Status