**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.  
     
   5. **Storage Service**  
    - Manages profile images, file uploads, and post attachments.  
     
   6. **Frontend Application (React.js)**  
    - User-friendly UI for interacting with the platform.  
     
   7. **Kubernetes Infrastructure**   
    - Manages containerized microservices.

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



Media Service

Storage

Clients

Storage

User Service

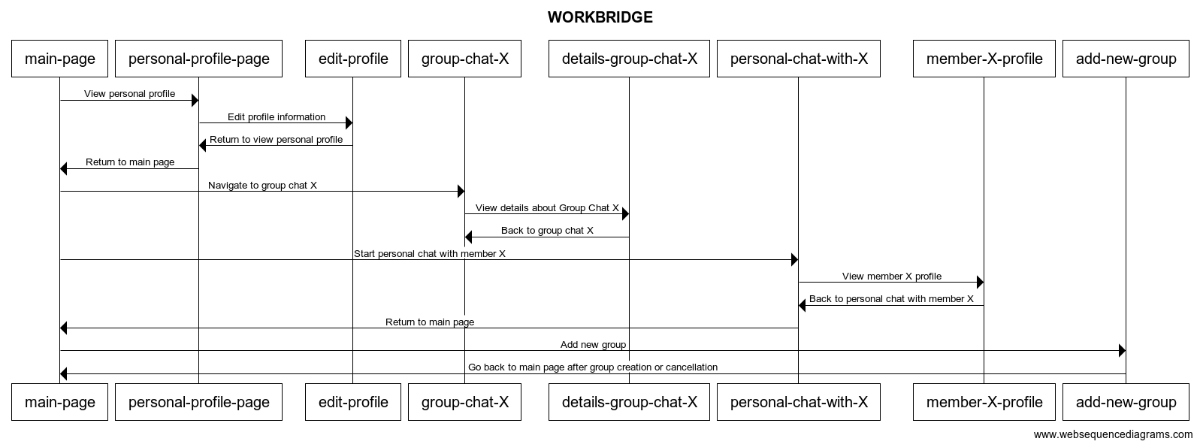
Cache

Clients

Chat Service

Storage

1. **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.   
     
   5. **Managing Profile Information**  
    - Users update profile details and work status.



1. **Frontend Technology**  
   - The frontend is built using **React.js**
2. **Mockups for Main Pages**  
     
   1. **Dashboard (Homepage)**  
   - Displays the organizational feed with the latest updates.  
   - Provides quick access to chat, notifications, and profile settings.  
     
   2. **Group Chat**  
   - List of active conversations and teams.  
   - Real-time messaging with file sharing.  
     
   3. **Chat Details**  
   - Displays ongoing chat messages.  
     
   4. **User Profile Page**  
   - Displays user's profile, name, role, and activity history.