

# **TASK ANALYSIS DOCUMENT**

## **FACEBOOK**

## **CORE FEATURES OF FACEBOOK**

### **1. User Registration and Login:**

- New users can register using their email or phone number.
- Option to sign up using third-party authentication (e.g., Facebook, Google).
- Users can log in with their credentials.

### **2. Profile Creation:**

- Users can create their profile by adding a profile picture, cover photo, and personal information.
- Ability to provide details such as bio, work, education, location, and relationship status.
- Option to customize the privacy of profile information.

### **3. Friend Requests and Connections:**

- Users can search for other users and send friend requests.
- Notifications for incoming friend requests.
- Option to accept or reject friend requests.
- List of friends displayed on the user's profile.

### **4. Posts and Feeds:**

- Users can create and publish posts containing text, images, videos, and links.
- Posts appear on the user's profile and in their friends' feeds.
- News feed displays posts from friends and pages followed by the user.
- Option to filter the news feed by most recent or popular posts.

### **5. Likes and Reactions:**

- Users can like posts and react using various emoticons (like, love, haha, etc.).
- Counts of likes and reactions displayed under each post.

## **6. Comments and Replies:**

- Users can comment on posts and reply to comments.
- Comment threads displayed under posts.
- Option to like and react to comments.

## **7. Sharing:**

- Users can share posts, links, and videos from their news feed or external sources.
- Option to share publicly, with friends, or in specific groups.

## **8. Privacy Settings:**

- Customizable privacy settings for posts, friend requests, profile information, and more.
- Users can choose who can see their posts and profile details.
- Options to control visibility to friends, public, specific groups, or custom lists.

## **9. Notifications:**

- Real-time notifications for friend requests, likes, comments, and other interactions.
- Notifications center to manage and view all notifications.

## **10. Messaging:**

- Integrated messaging system for private conversations between friends.
- Ability to send text messages, images, and other media.
- Group messaging functionality.

## **11. Search and Discovery:**

- Search functionality to find users, pages, groups, and posts.
- Discovery features to suggest friends, groups, and pages based on interests.

## **12. Events and Calendars:**

- Users can create and join events, RSVP, and invite friends.
- Calendar integration to keep track of upcoming events.

## **13. Groups and Pages:**

- Users can create, join, and participate in groups based on interests.
- Pages for public figures, businesses, and organizations to share updates.

## **14. Reporting and Blocking:**

- Users can report inappropriate content or users.
- Option to block users to prevent further interaction.

## **15. Settings and Account Management:**

- User settings for account security, notifications, privacy, and more.
- Ability to edit and update profile information.

# **STEPS INVOLVED IN EACH FEATURE**

## **User Registration and Login:**

### **1. User Registration:**

- Enter email or phone number.
- Create a password.
- Provide name and other optional information.
- Click on "Sign Up" button.

## **2. Third-Party Authentication:**

- Click on "Sign Up with Facebook/Google" button.
- Authorize the app to access necessary information.
- Complete registration.

## **3. User Login:**

- Enter registered email or phone number.
- Enter password.
- Click on "Log In" button.

## **Profile Creation:**

### **1. Upload Profile Picture:**

- Click on the profile picture placeholder.
- Choose an image from the device's gallery or take a photo.
- Crop and adjust the image.
- Confirm the selection.

### **2. Add Cover Photo:**

- Click on the cover photo placeholder.
- Choose an image from the gallery.
- Position and adjust the image.
- Confirm the selection.

### **3. Edit Profile Information:**

- Navigate to the profile settings.
- Click on "Edit Profile."
- Update personal information, bio, work, education, etc.
- Save changes.

## **Friend Requests and Connections:**

### **1. Send Friend Request:**

- Search for a user's name or email.
- Visit their profile.
- Click on "Add Friend" button.
- Optionally, include a message.
- Send the request.

### **2. Accept/Reject Friend Request:**

- Receive a friend request notification.
- Visit the notifications section.
- Accept or reject the request.

## **Posts and Feeds:**

### **1. Create a Post:**

- Click on the "Create Post" button.
- Enter text, add images or videos, include tags.
- Choose the audience (public, friends, custom).
- Click on "Post" to publish.

### **2. Like and React to Posts:**

- Scroll through the news feed.
- Click on the "Like" button under a post.
- Choose an emoticon reaction (love, haha, etc.).

### **3. Comment on Posts:**

- Scroll through the news feed.
- Click on the "Comment" section under a post.
- Type your comment and press "Enter" or "Send."

## **Likes and Reactions:**

### **1. Like a Post:**

- Click on the "Like" button under a post.
- The button changes to indicate that you've liked the post.

### **2. React with Emoticons:**

- Click on the "Like" button under a post.
- Choose an emoticon reaction (heart, laughter, etc.).

## **Comments and Replies:**

### **1. Add a Comment:**

- Scroll to the comments section under a post.
- Click on the "Add a comment" box.
- Type your comment and press "Enter" or "Send."

### **2. Reply to a Comment:**

- Click on "Reply" under a specific comment.
- Type your reply and press "Enter" or "Send."

## **Privacy Settings:**

### **1. Manage Post Privacy:**

- While creating a post, click on the audience selector.
- Choose who can see the post (public, friends, custom lists).

### **2. Adjust Profile Privacy:**

- Go to profile settings.
- Navigate to privacy settings.
- Customize who can see your profile information.

## **ERROR SCENARIOS**

### **1. Registration and Login:**

- Error in email/phone format during registration.
- Password requirements not met during registration or login.
- User tries to log in with incorrect credentials.

### **2. Profile Creation:**

- Uploading an image that's too large or in an unsupported format.
- Entering special characters or invalid data in profile fields.
- Server error while saving profile changes.

### **3. Friend Requests and Connections:**

- Sending multiple friend requests to the same user.
- Attempting to send a friend request to a user who has blocked you.
- Accepting a friend request from a user who later blocks you.



#### **4. Posts and Feeds:**

- Trying to post without any content (text, images, etc.).
- Sharing a link that is broken or not supported.
- Editing or deleting a post that has comments or reactions.

#### **5. Likes and Reactions:**

- Liking/reacting to a post that has been deleted.

#### **6. Comments and Replies:**

- Commenting on a post that has been deleted.
- Attempting to reply to a comment that has been removed.

#### **7. Privacy Settings:**

- Selecting a privacy setting that is too restrictive, preventing intended users from seeing posts.
- Changing privacy settings while a post is being created.

#### **8. Notifications:**

- Not receiving notifications for friend requests or interactions due to server issues.
- Receiving duplicate notifications for the same event.

#### **9. Messaging:**

- Sending a message to a user who has blocked you.
- Sending messages that contain inappropriate content.

#### **10. Search and Discovery:**

- Search results not showing relevant users, groups, or posts.
- Accidentally clicking on the wrong search result.

**11. Groups and Pages:**

- Trying to join a private group without being approved by the group administrator.
- Creating a duplicate group or page with a similar name.

**12. Reporting and Blocking:**

- Reporting content that doesn't violate community standards.
- Blocking a user unintentionally.

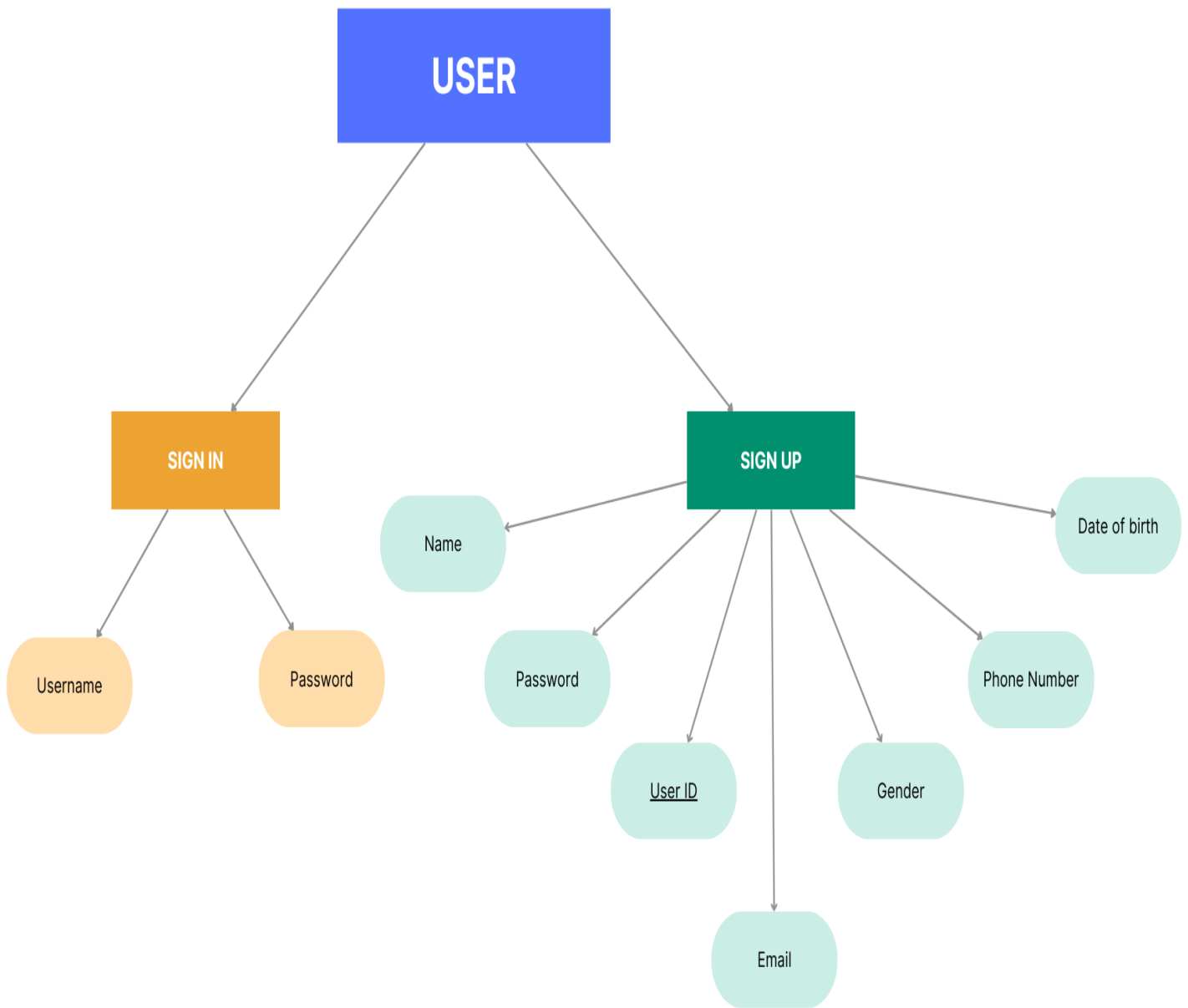
**13. Settings and Account Management:**

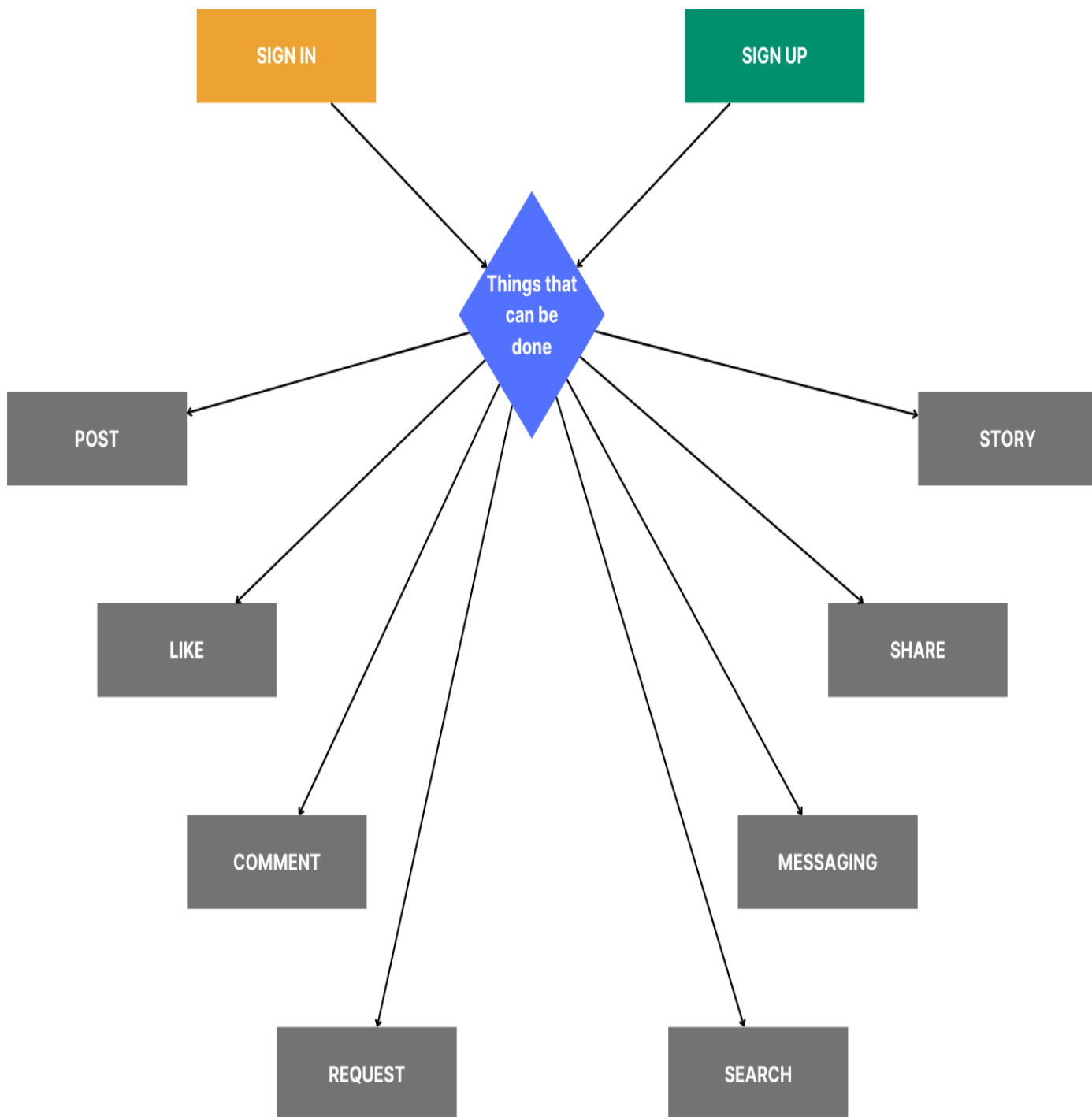
- Changing account settings that result in unexpected behavior.
- Forgetting password and experiencing difficulties in the password recovery process.

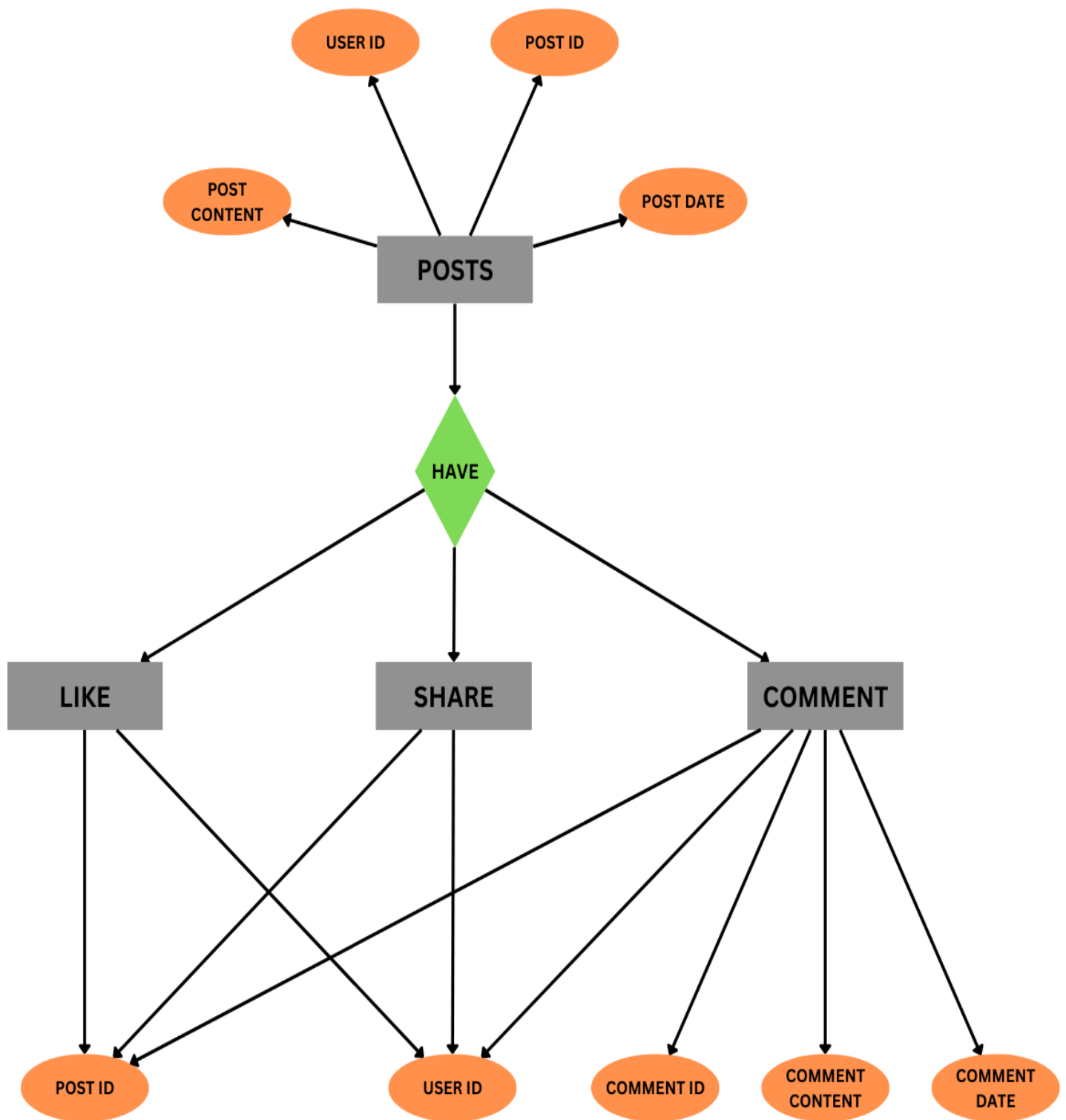
**14. Network and Server Errors:**

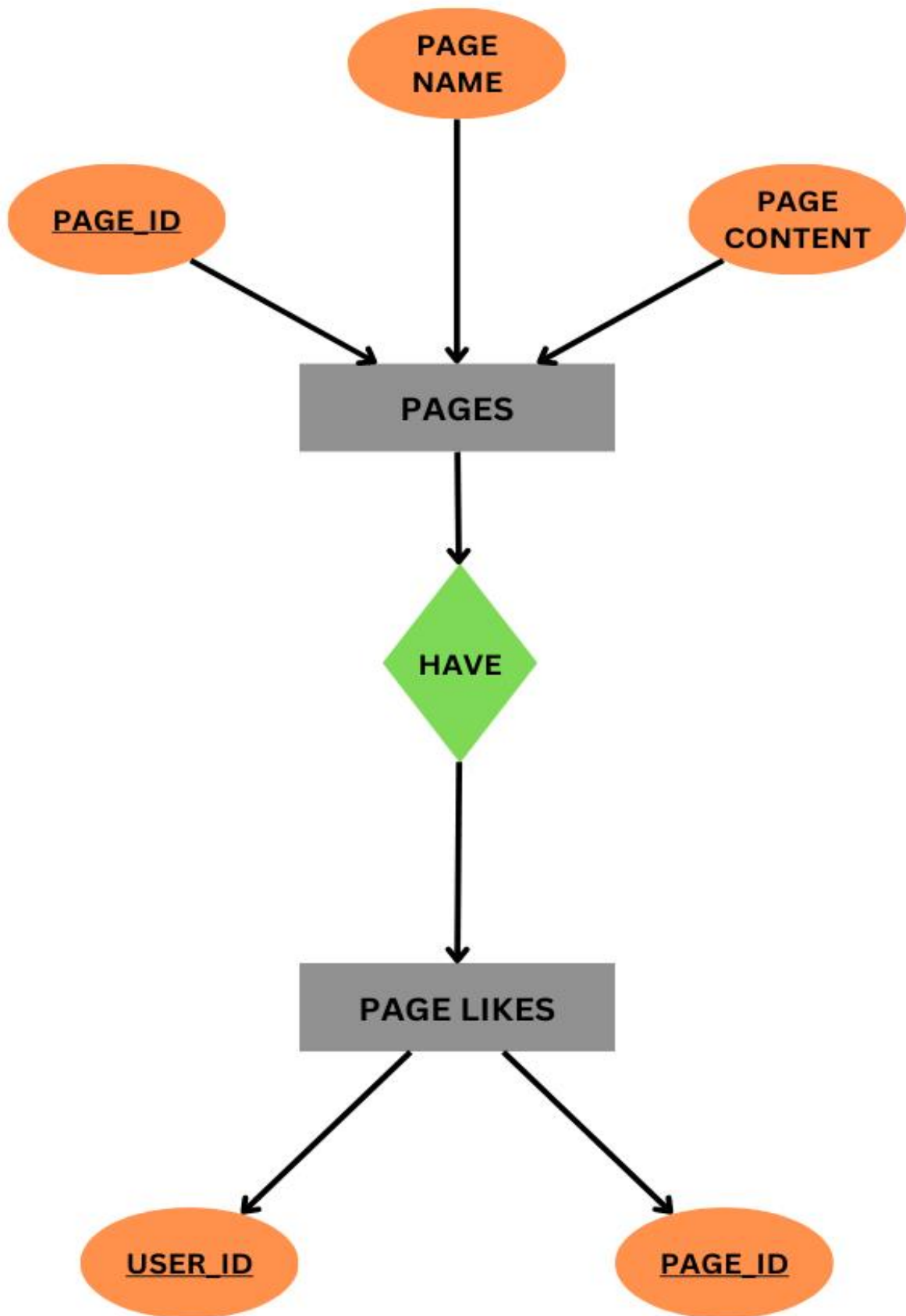
- Slow loading times due to network issues.
- Server downtime affecting user interactions.

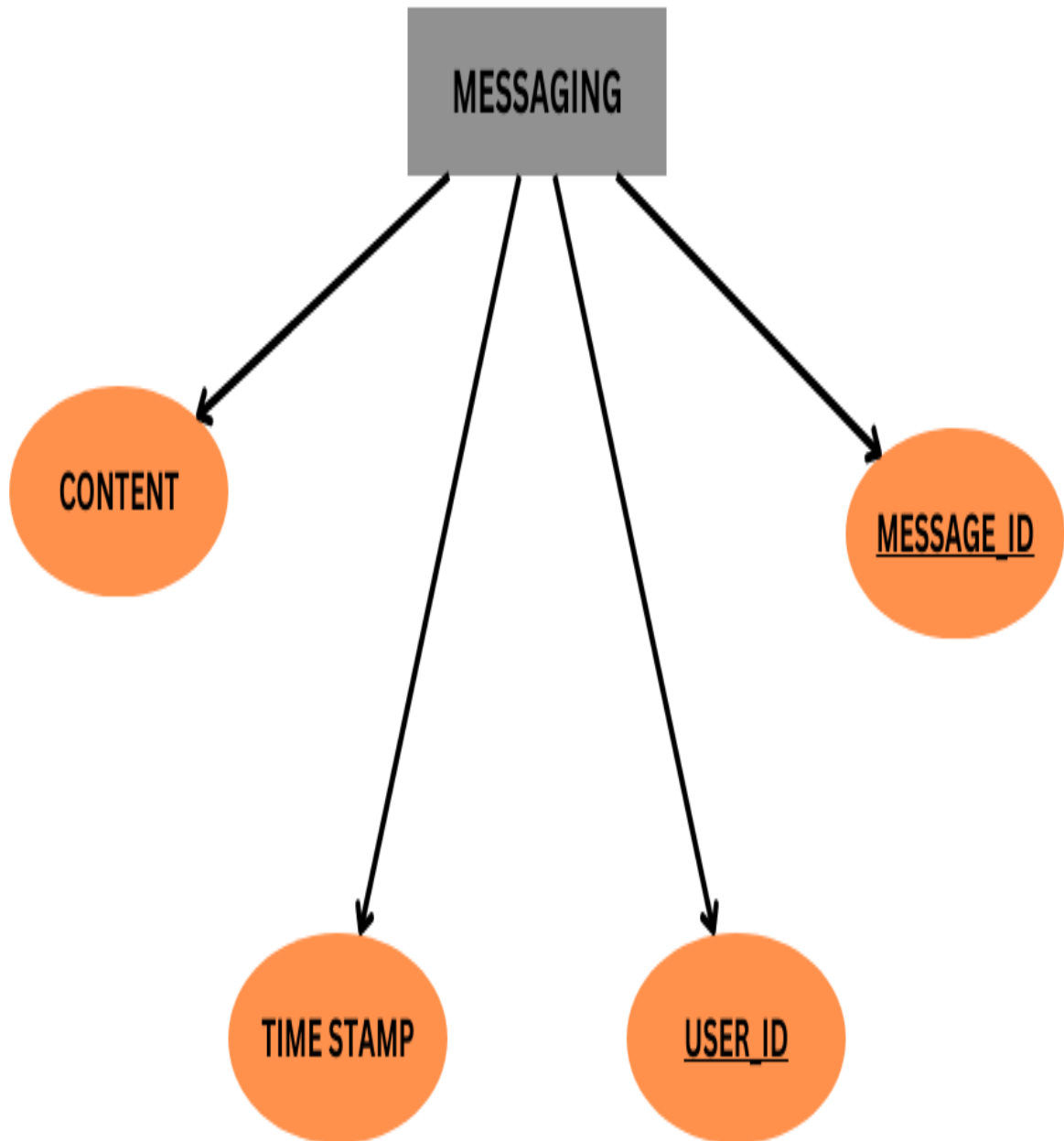
## **ER DIAGRAM**



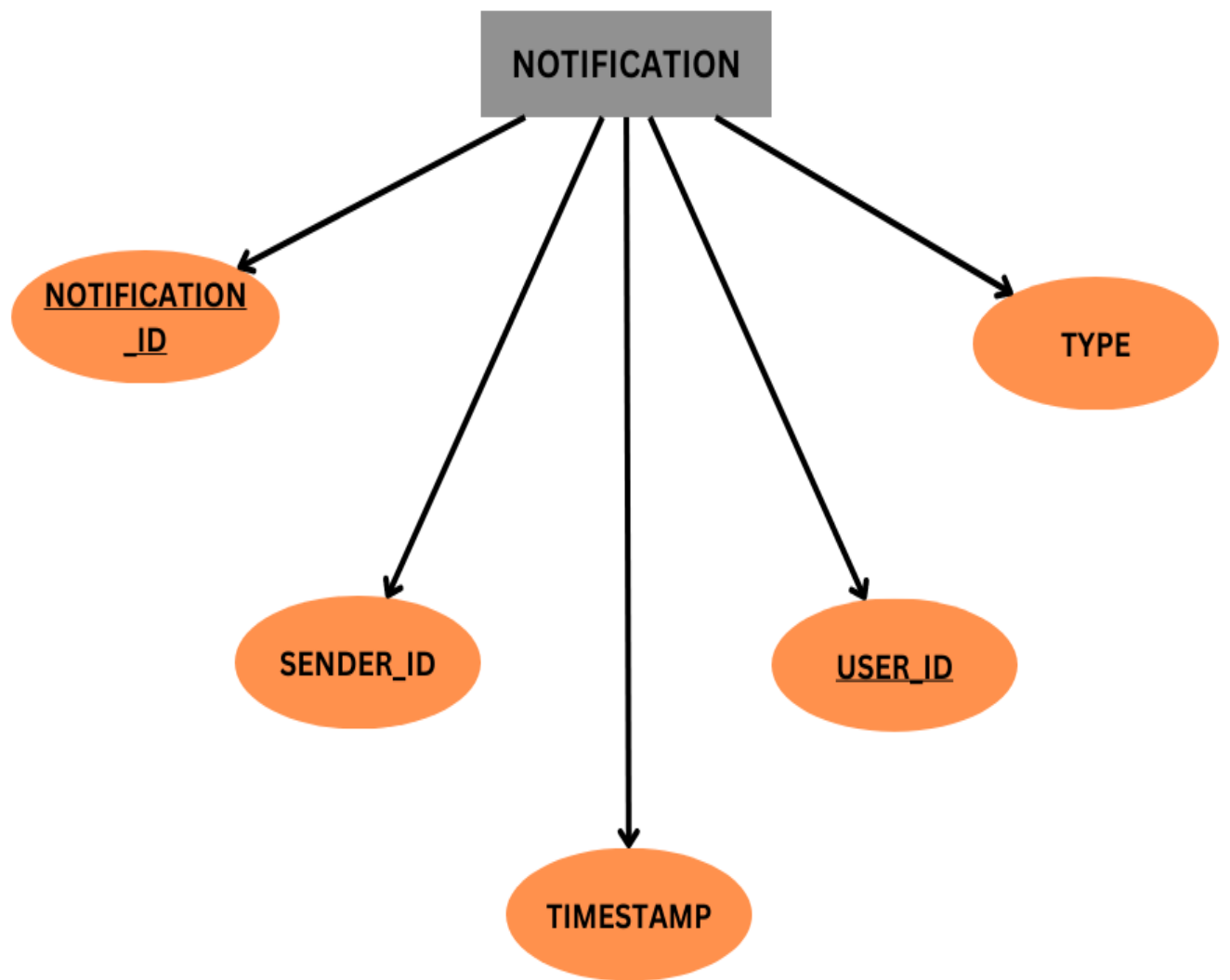












## DATABASE DIAGRAM

