User Requirements Specification for YansTribe

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# Introduction

This web application is a social media platform that integrates features from booth Facebook and Instagram, allowing users to interact through stories, posts, comments, messages, and friendships. Users can personalize their experience by modifying their settings, privacy options, and profile details.

# Functional Requirements

FR-01: User Registration & Authentication

* Users must be able to sign up, log in and log out securely.
* Password encryption and account verification must be implemented.

FR-02: User Profile Management

* Users can edit their personal information:
  + name,
  + bio,
  + profile picture
  + password
* Users can set their account to public or private.

FR-03: Posting Content

* Users can create, edit, and delete posts containing text, images or videos.
* Users can react (like) posts + comments on posts.
* Admin can remove inappropriate posts and comments.

FR-04: Stories

* Users can upload stories that disappear after 24 hours.
* Users can view stories from their friends and public accounts.

FR-05: Friend Management

* Users can send, accept, and decline friend requests.
* Users can remove friends from their list.

FR-06: Messaging System

* Users can send private messages to their friends.
* Users can view their message history.

FR-07: Privacy & Security

* Users can block other users.
* Users can change their password.

FR-09: Admin Controls

* Admins can manage users, posts and comments.
* Admins can delete accounts violating platform rules.

# Use Cases

## Use Case ID UC-001

### Title: User Registration Actor

#### User Preconditions:

* User is not registered.
* User has a valid email.

#### Trigger:

the user initiates the registration process.

#### Postcondition:

* The user account is created successfully.

#### MSS:

* The system prompts for user details (email, username, password, etc.).
* The user enters the details and submits.
* The system verifies and creates the account.

## Use Case ID UC-002

### Title: Create Post Actor

#### User Preconditions:

* The user is logged in.
* The user has an active account.

#### Trigger:

The user selects the option to create a post.

#### Postcondition:

The post is published successfully.

#### MSS:

1. The system displays the post creation interface.
2. The actor enters the post content (text, image, video, etc.).
3. The actor confirms the post.
4. The system saves and displays the post.

## Use Case ID: UC-003

### Title: Send Friend Request Actor

#### User Preconditions:

* The user is logged in.

#### Trigger:

The user selects another user another user to send a friend request.

#### Postcondition:

Friend request is sent.

#### MSS:

1. The system displays the user profile page.
2. The actor selects button “Send friend request”.
3. The system saves the friend request in the database.

## Use Case ID: UC-004

### Title: Send Message Actor

#### User Preconditions:

* The user is logged in.
* The recipient is a friend or has allowed messages.

#### Trigger:

The user selects a friend and types a message.

#### Postcondition:

The message is sent successfully.

#### MSS:

1. The system displays the chat interface.
2. The actor types a message and sends it.
3. The system delivers messages in real time.

## Use Case ID: UC-005

### Title: Delete Comment (Admin)

#### Administrator Preconditions:

* The administrator is logged into the admin portal.
* The comment exists in the system.

#### Trigger:

The administrator selects a comment to delete.

#### Postcondition:

The comment is removed.

#### MSS:

1. The system displays the comment list.
2. The actor selects a comment, and choses “Delete”.
3. The system removes the comment from the database.

# Non-Functional Requirements

* **Performance:** The system must handle at least 10, 000 concurrent users.
* **Security:** Implement secure authentication and data encryption.
* **Scalability:** The application must be scalable to accommodate growth.
* **Usability:** The UI must be intuitive and responsive.

# Conclusion:

This document outlines the key functional and non-functional requirements for the social media web app, ensuring a structured approach to development and implementation.