

# Social Media Platform System

## J2EE Business Components

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- By

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## Project Topic

Social Media Platform

## Business Case statement

The social media platform will allow users to connect with others in an interactive environment through the sharing of content, posting updates, liking, commenting, and following other users. This will fundamentally include features such as user authentication, profile management, personal activity history of posts, functionalities for searching, and a timeline for viewing updates enhancing user experience and engagement on the platform. The platform's emphasis on secure user sign-up, profile management, content creation, and robust moderation tools ensures a safe, engaging environment for all users. This project will address the growing demand for social media platforms that prioritize user experience, ease of use, and engagement, while also giving administrators the ability to manage content and users effectively.

## Business Case Justification Statement

The proposed social media platform aims to address the demand for user-centric, secure, and engaging online spaces where individuals can share content and connect with others.

The platform will offer a secure and intuitive environment where users can:

**Share content:** Easily create and share posts, images, and videos.

**Connect with others:** Build meaningful relationships through likes, comments, and direct messaging.

**Express opinions:** Share their thoughts freely.

To ensure a safe community, we will implement moderation tools and security measures, including:

**Secure authentication:** Protect user data with advanced encryption and password hashing.

**Content moderation:** Remove inappropriate content and manage users who violate community guidelines.

**Privacy controls:** Give users control over their personal information and interactions.

By prioritizing user experience, security, and engagement, our platform will become a go-to destination for individuals seeking an easy-to-use and friendly community.

## Scope of the project

The project scope includes designing and implementing the core features of a social media platform to provide users with an interactive platform for sharing content.

- User Authentication and Accounts

Implement secure sign-up, login, logout, and password reset functionalities.

Ensure that user accounts are protected through encryption and secure authentication mechanisms such as password hashing. Using JWT to secure user accounts.

- Forgot Password:

Allow users to reset their password via a secure method.

- Profile

Allow users to create and manage their profiles by adding personal information.

- Update Profile:

Users can update their personal information or change their settings.

- Public and Private Accounts:

Enable users to set their accounts as public or private, giving them control over their visibility.

- Delete Account Permanently:

Users can delete their account, removing all data from the platform permanently.

- Content Creation:

Enable users to create and share posts containing text and images.

- Following System:

Allow users to search and follow people they like.

- Timeline:

Create a following feature that enables users to connect with each other, see their posts, and interact with content from the people they follow, such as liking and commenting. Implement pagination for large amount of data.

- Notification:

Notify users about activities related to their posts, such as likes, comments, and new followers.

- Admin Panel:

Create an admin dashboard where administrators can manage user accounts, moderate posts, and enforce community guidelines.

- Report Content Check:

Allow users to report inappropriate content. Admins can review reported content and take appropriate actions (delete or flag content).

- Content Moderation:

Admins can delete or edit inappropriate content, suspend or ban users, and enforce platform rules.

- Account Deactivation and Recovery

Users can deactivate their accounts temporarily and later recover them by reactivating.

## MVP

- User authentication, including user sign-up, sign-in, password reset, and logout securely.
- Forgot Password: Allow users to reset their password securely.
- User authentication, including user sign-up, sign-in, password reset, and logout securely.
- Forgot Password: Allow users to reset their password securely.
- User profile setup with basic information.
- Update Profile: Users can update their personal information or change their settings.
- Public and Private Accounts: Users can set their profiles to be private or public, providing more control over visibility.
- Personal activity history page: Where the user can view and edit all their posts.
- Search feature to search users and view their activity page.
- Users could view other users' personal activity history pages and follow them.
- Timeline page: Users can view posts from other users they followed in the timeline, and like or comment.
- Post creation with text and images.
- Notification: Display messages when the user has new followers, likes, and comments.
- Admin panel for user moderation and content management.
- Report Content: Users can report inappropriate content, and admins can review and take action.
- Account Deactivation and Recovery: Users can deactivate their accounts temporarily and later recover them.
- Delete Account Permanently: Users can delete their account permanently and remove all their data.

## List of Team Members

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