

OOADJ-LAB 1

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Problem: Social Media

Lab 1: Use Case Diagram

Design a Use case Model to show the activities of a user and admin on a social media platform. The user can create a new account, login to existing accounts, and manage accounts. To create an account, the user must provide a username, password and an email address. Creating an account and logging into existing accounts requires authentication which is done by sending an OTP to the registered email address. The user can perform post management actions and relationship management actions. Post management refers to creating posts, deleting posts, sharing posts and commenting on posts. Creating a post requires adding an image and a caption for the image. Relationship management refers to liking posts, following/unfollowing users, blocking/reporting users and commenting on posts. On the other side of the platform is the admin who oversees the activities of the user on the platform. The admin can temporarily suspend accounts, permanently ban accounts, review appeals by users on reported accounts and reported content. The admin can take respective action in the form of content moderation such as removing posts, comments and banning/suspending accounts.

Description:

1) System Boundary: Represents the Social Media Platform as a whole.

2) Main Functions:

1. Create Account
2. Login Account
3. Post Management
4. Relationship Management
5. Account Management
6. User Authentication
7. Content Moderation

3) Actors:

- User: Represents a user interacting with the social media platform.
Use Cases: Create Account, Login, Manage Account, Post Management, Relationship Management
- Admin: Represents an administrator overseeing user activities and moderating content.

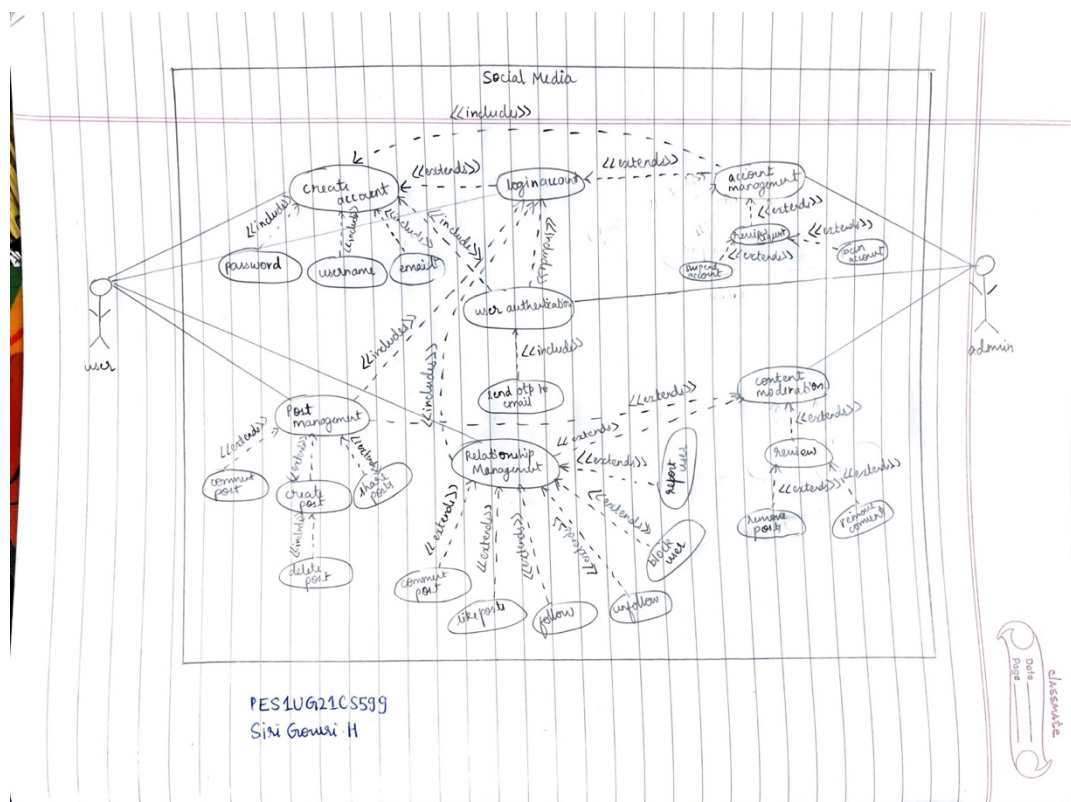
Use Cases: Suspend Account, Ban Account, Review Appeals, Content Moderation

4) Include Relationship:

- Every create account requires the username, password and email necessarily.
- Login is done only when account is created, so it is included.
- User authentication is done for every creation and login and similarly for every authentication an otp is sent mandatorily.
- Post Management and Relationship Management are included by the login as a user requires an account to create, access or edit posts.
- For account management an already existing account is required, login is not mandatory.

UML DIAGRAMS:

1)



2)Draw.io

