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Lab 10: Project: Social Media Platform

Task 2: To write software requirements specification

Software Requirements Specification (SRS) Functional Requirements

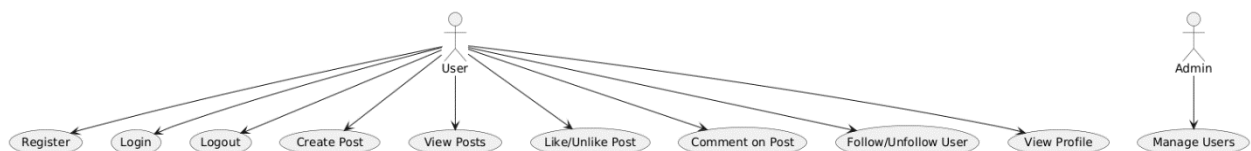
1. Users can register and log in.
2. Only authenticated users can create posts, comment, like The posts.
3. Admin users can manage (delete) posts and users.
4. Users can view a feed of posts.
5. Users can follow/unfollow other users.
6. Input validation is enforced on all forms.

Non-Functional Requirements:

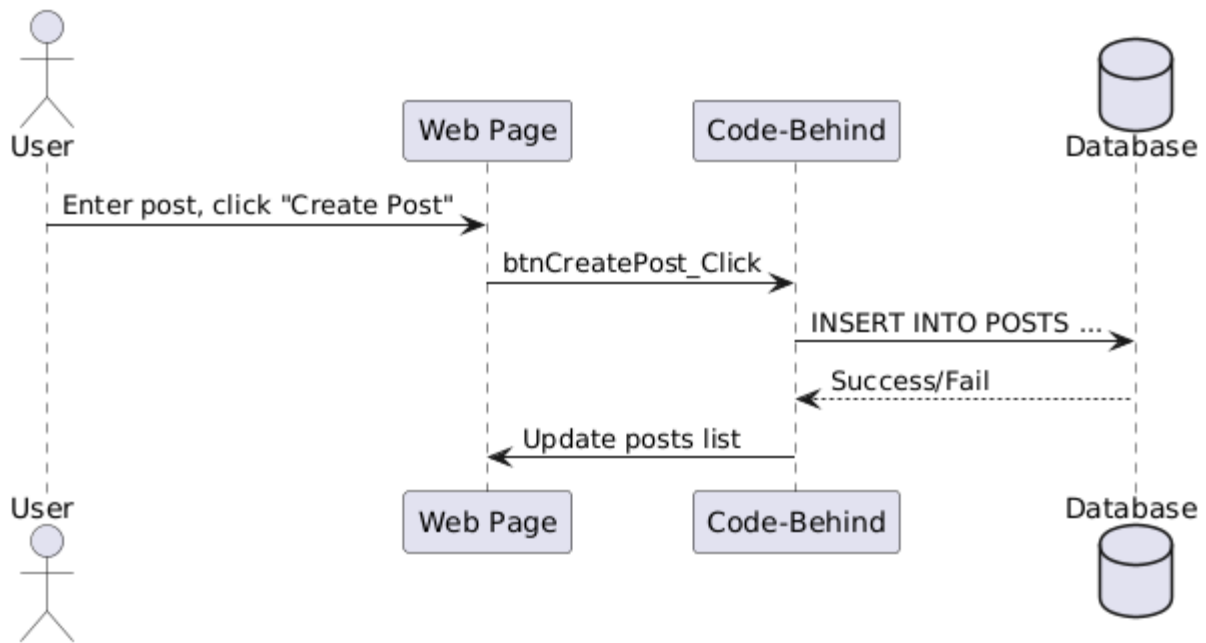
1. The application must be responsive and user-friendly.
2. Passwords must be securely stored (hashed).
3. All user input must be validated and sanitized.
4. The application must maintain user sessions securely.

Task 3: To develop the analysis and design model of web application including:

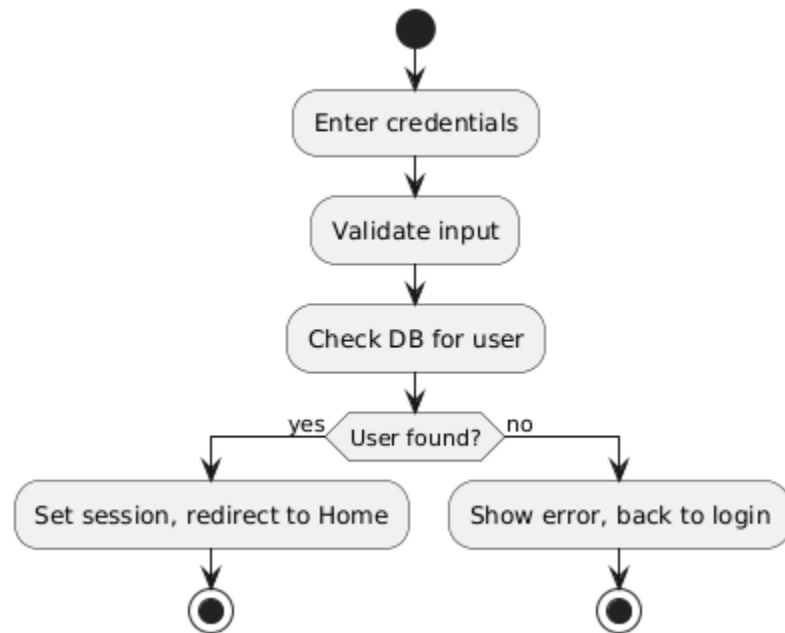
1) Use Case Model:



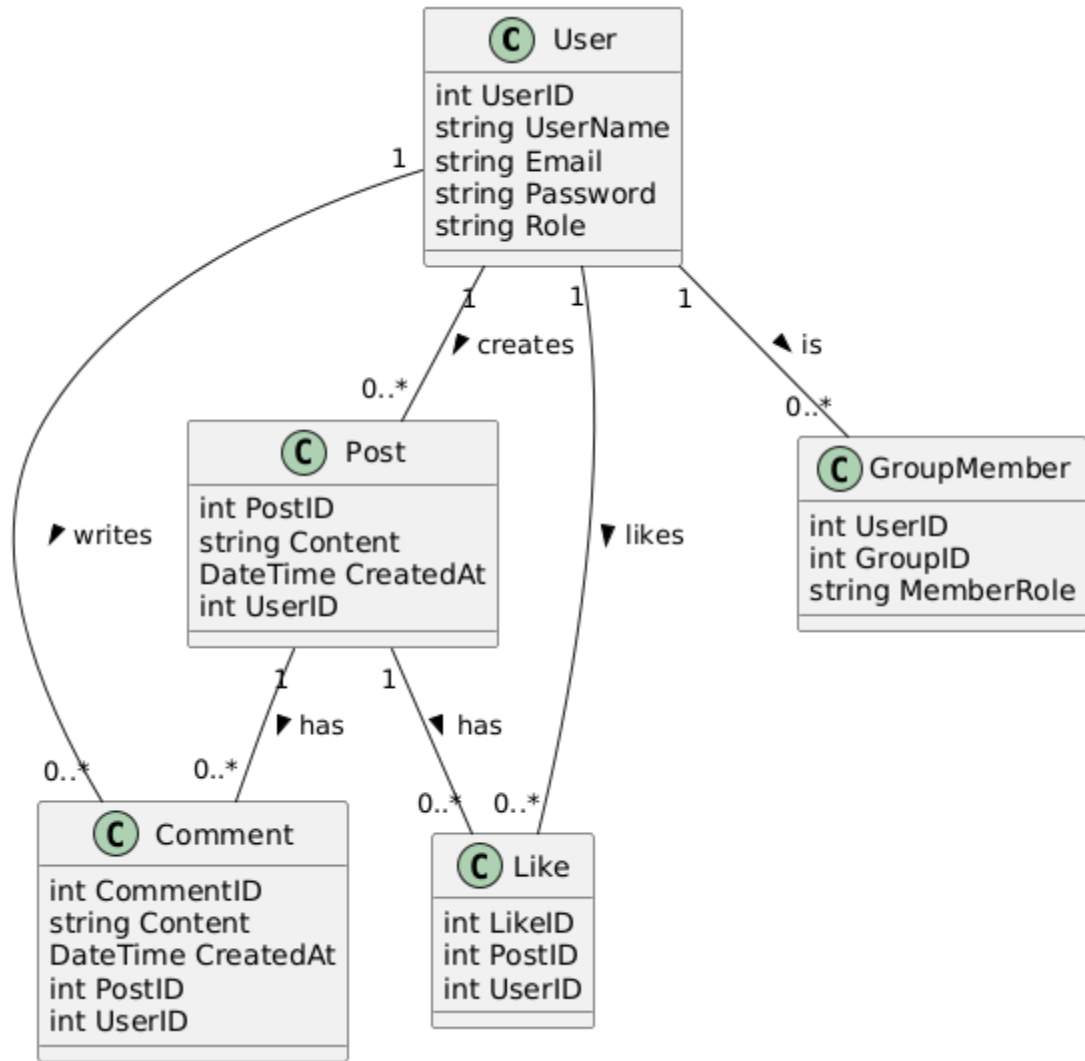
2) Sequence Diagram:



3) Activity Diagram:



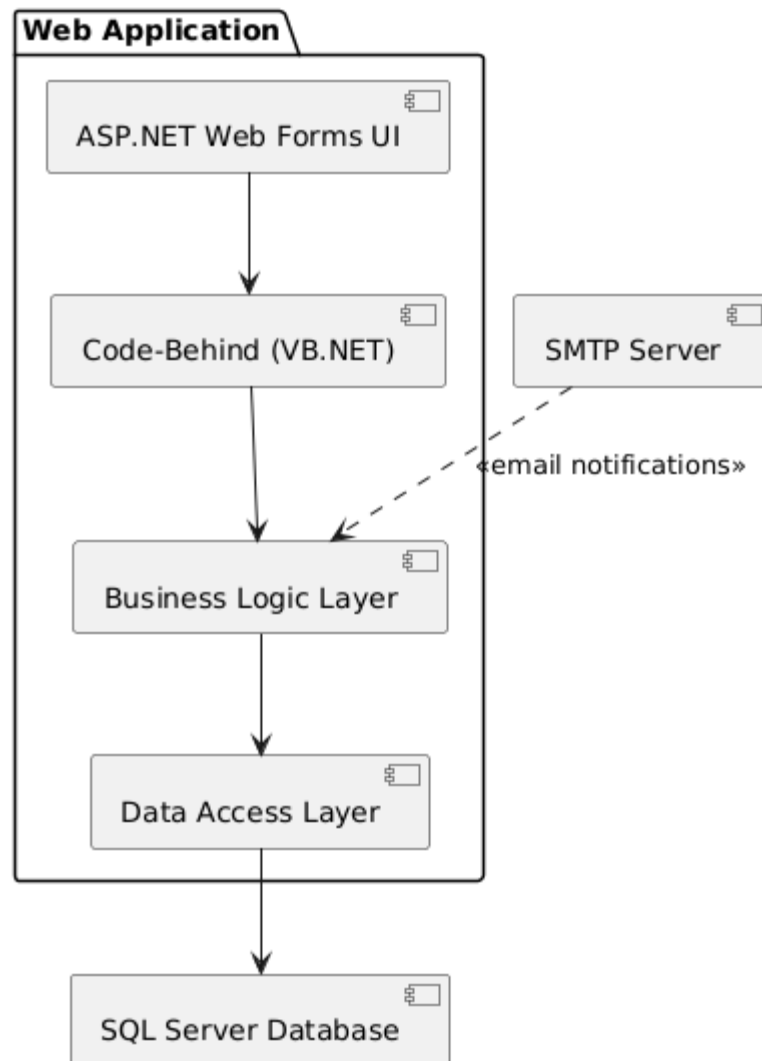
4) Class Diagram:



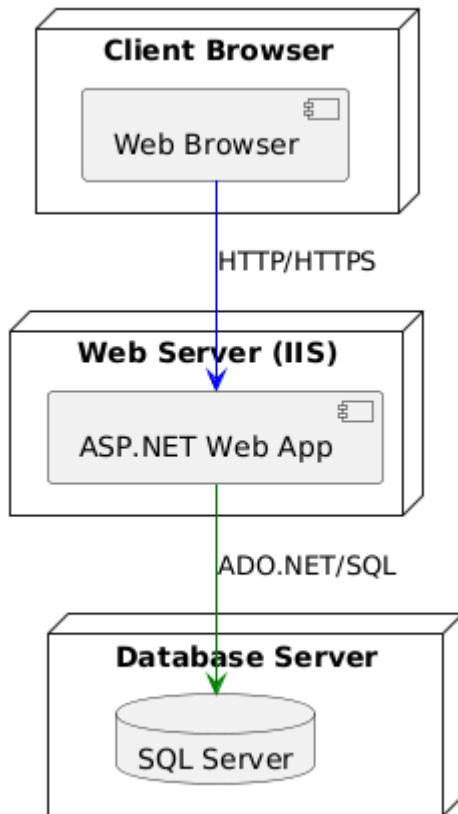
Task 3A:

To develop component model and deployment model

Component Model:



Deployment Model:

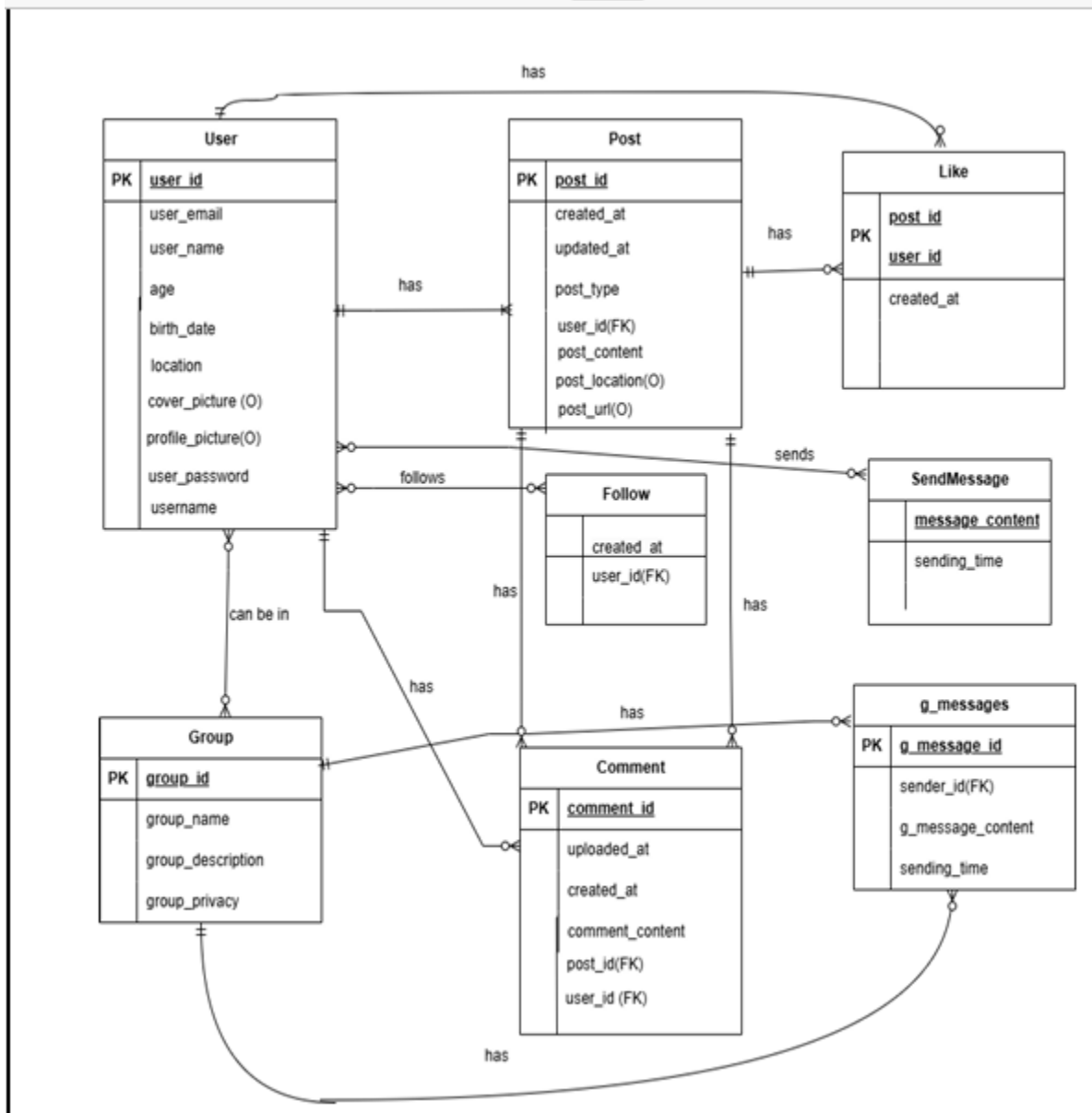


Task 4:

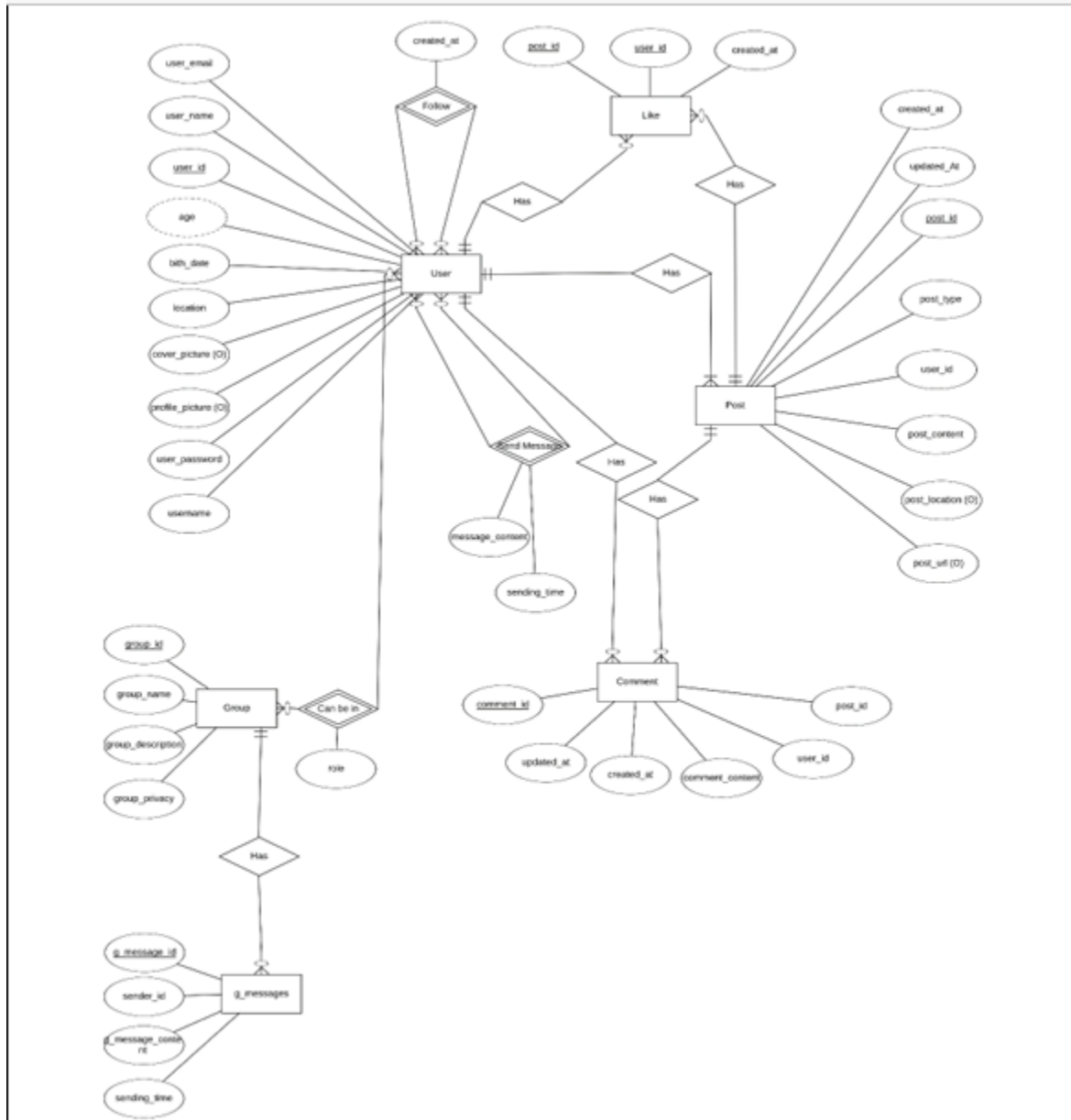
Develop database model including:

- ER Model
- Relational Model
- Normalization of relational model
- Physical Model
- SQL Implementation

ER MODEL:



ER diagram:



Relational Schema:

