

IS Activity 4

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① Tables

User's Table

- user_id (PK)
- email
- password
- username

Post Table

- post_id (PK)
- user_id (FK)
- Content/data.

Comment Table

- comment_id (PK)
- post_id (FK)
- user_id (FK)
- comment content.

② Security Considerations:

→ Prevent SQL Injections: Sanitize user inputs before processing them. A lot of ~~framework~~ frameworks nowadays have built-in functionalities to protect against SQL injections

→ Protect Sensitive Data: use encryption for sensitive fields and information..

→ Restrict Access: Authorization and Authentication for anyone who has access to the data.
Only limited access should be given based on the role.

Prevent Inference Attacks: limiting the query rate, using aggregation hides individual data of users. Adding noise when using aggregated functions.

→ Additional Considerations: Keeping logs of everything helps find the issue, security flaws and the culprit.