



Twitter Mini

A Simpler version of Twitter

Designed By :

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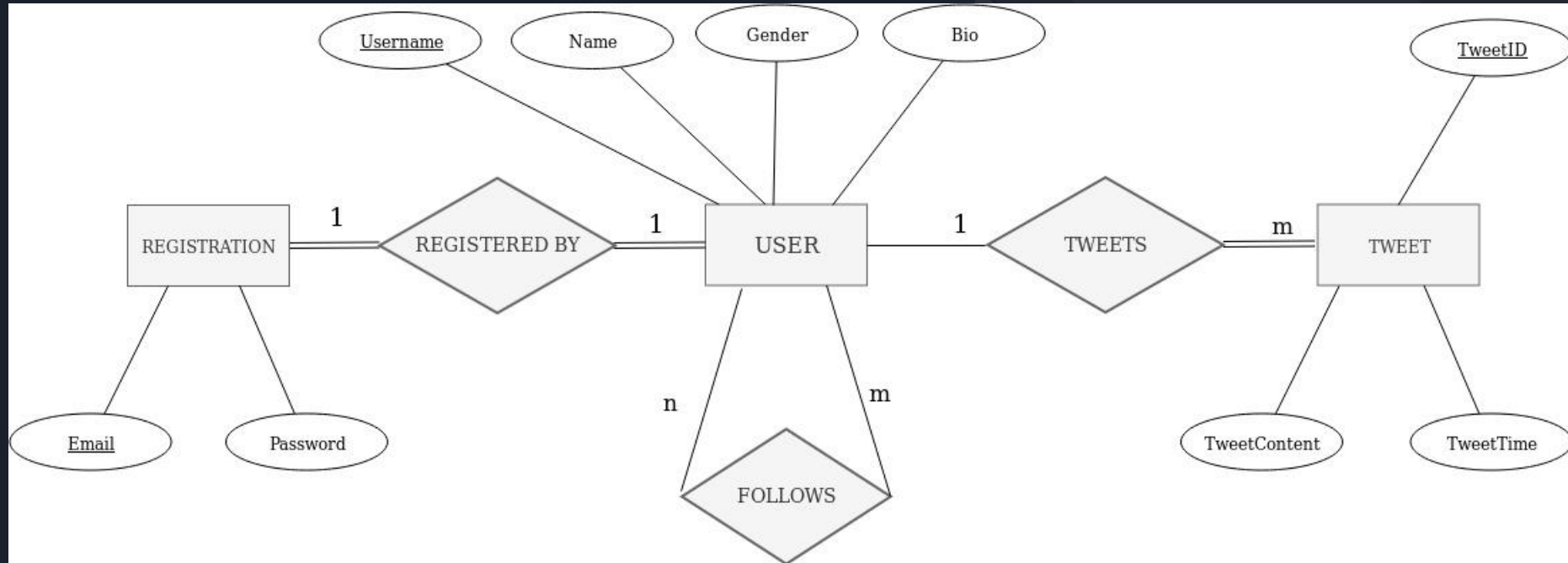
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B170583CS

Features of basic design

- A User can create an account
- He/She can add tweets
- They can find new people see their profile and decide to follow them
- They can see the list of people whom they follow
- They can see the tweets of people whom they follow
- They can unfollow people
- And can decide to leave by deleting their account

ER Diagram for basic version



RDB Schema

USER

<u>Username</u>	Name	Gender	Bio
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TWEET

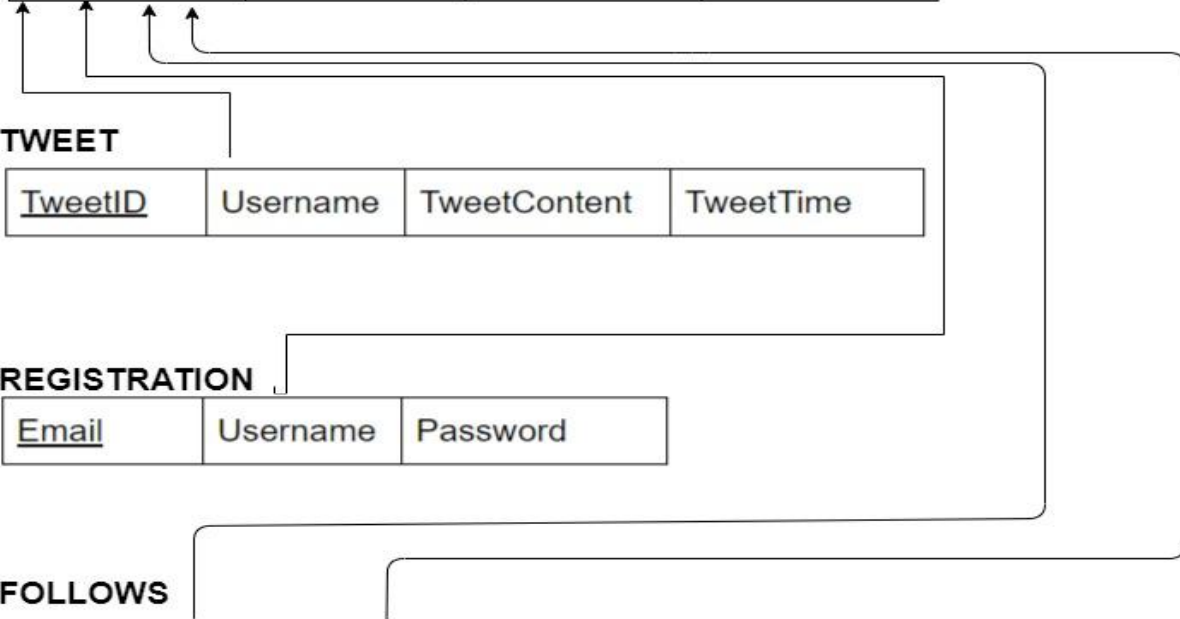
<u>TweetID</u>	Username	TweetContent	TweetTime
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REGISTRATION

<u>Email</u>	Username	Password
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FOLLOWS

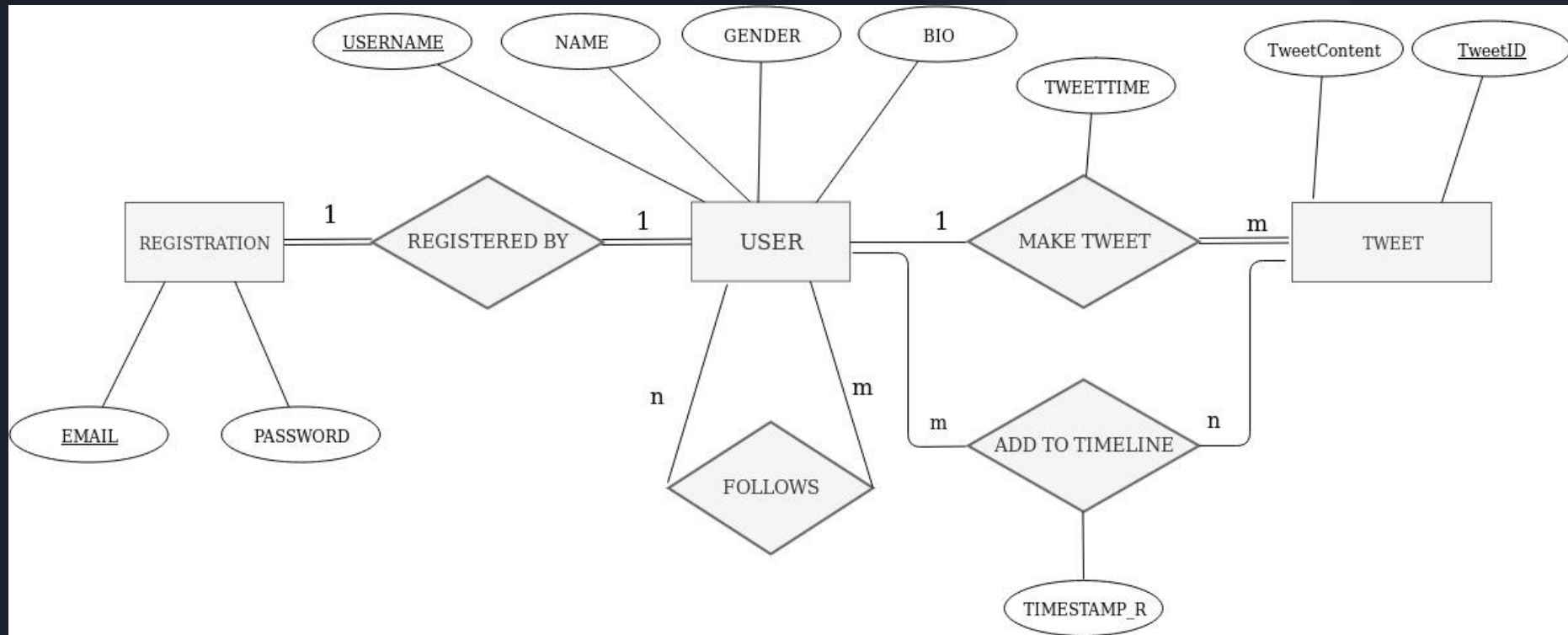
Follower	Following
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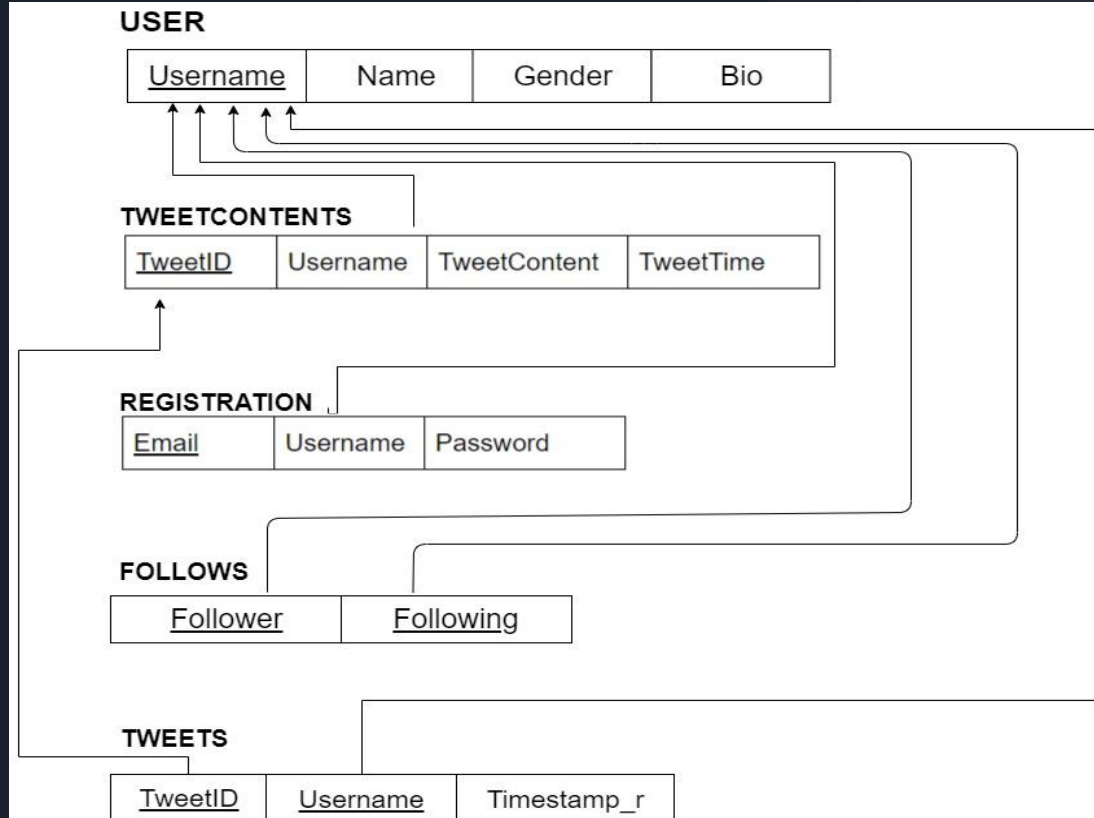
Newly added features

- “Add to Timeline” feature is also added that works similar to retweet feature in actual twitter
- They can see the list of their followers also
- Delete tweet feature is also added

New ER Diagram



New RDB Schema



Functional dependencies

USER

<u>Username</u>	Name	Gender	Bio

TWEETCONTENTS

<u>TweetID</u>	Username	TweetContent	TweetTime

REGISTRATION

<u>Email</u>	Username	Password

FOLLOWS

<u>Follower</u>	<u>Following</u>

TWEETS

<u>TweetID</u>	<u>Username</u>	Timestamp_r

All the Functional Dependencies here are in BCNF.

Because for each FDs $X \rightarrow Y$, X is a superkey.

If a relational schema is in BCNF then all redundancy based on functional dependency has been removed, although other types of redundancy may still exist. A relational schema R is in Boyce–Codd normal form if and only if for every one of its dependencies $X \rightarrow Y$, at least one of the following conditions hold

- $X \rightarrow Y$ is a trivial functional dependency ($Y \subseteq X$),
- X is a superkey for schema R .

Thank you

An abstract geometric graphic on the right side of the slide. It consists of several dark gray, three-dimensional rectangular blocks arranged in a stepped, staircase-like pattern. Two blocks are highlighted: one is a light green color and the other is a bright blue color. The background is a dark navy blue.