DBMS-GROUP-ASSIGNMENT

SVNIT-NEWS-PORTAL

GROUP MEMEBERS:

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DESCRIPTION: This news portal is for students who want to follow all the updates in the campus about events like SPORTS, NCC, CULTURAL, NATIONAL, RELIGIOUS etc. or departmental news or club activities.

To do so, club heads, department heads etc. are given special authorities by the admin to post articles related to activities they want to conduct in the campus along with permission letter from Director.

User can view the website and get the latest news on the portal. If user wants to follow particular club, then they can follow using tags, which will be created by the publisher while posting their articles.

It will display number of views of each articles and hot/current topics and manages categories using tags provided by publisher.

If user wants to be a publisher, they can request admin, and if permitted, he/she will be provided login credentials by the admin, using which a publisher must login every time to publish articles.

Entity 1:   ADMIN

(

 ADMIN_ID,

 ADMIN_NAME,

 EMAIL,

 PUBLISHER_ID,

 PRIMARY KEY (ADMIN_ID),

 FOREIGN KEY (PUBLISHER_ID) REFERENCES ADMIN(ADMIN_ID)

);

Entity 2: PUBLISHER

(

 PUBLISHER_ID,

 PUBLISHER_NAME,

 EMAIL-ID,

 PASSWORD,

 LOGIN_ID,

 PUBLISHER_PROFILE_PIC,

 TAG_ID,

 PRIMARY KEY (PUBLISHER_ID),

 FOREIGN KEY (TAG_ID) REFERENCES TAGS(TAG_ID)

);

Entity 3: NEWS

(

 NEWS_ID,

 NEWS_TITLE,

 CONTENT,

PUBLISH_DATE,

  PUBLISH_TIME,

  IMAGE,

  PUBLISHER_ID,

  PRIMARY KEY (NEWS_ID),

  FOREIGN KEY (PUBLISHER_ID) REFERENCES PUBLISHER(PUBLISHER_ID)

);

Entity 4: TAGS

(

  TAG_ID,

  TAG_NAME,

  NEWS_ID,

  PRIMARY KEY (TAG_ID, NEWS_ID),

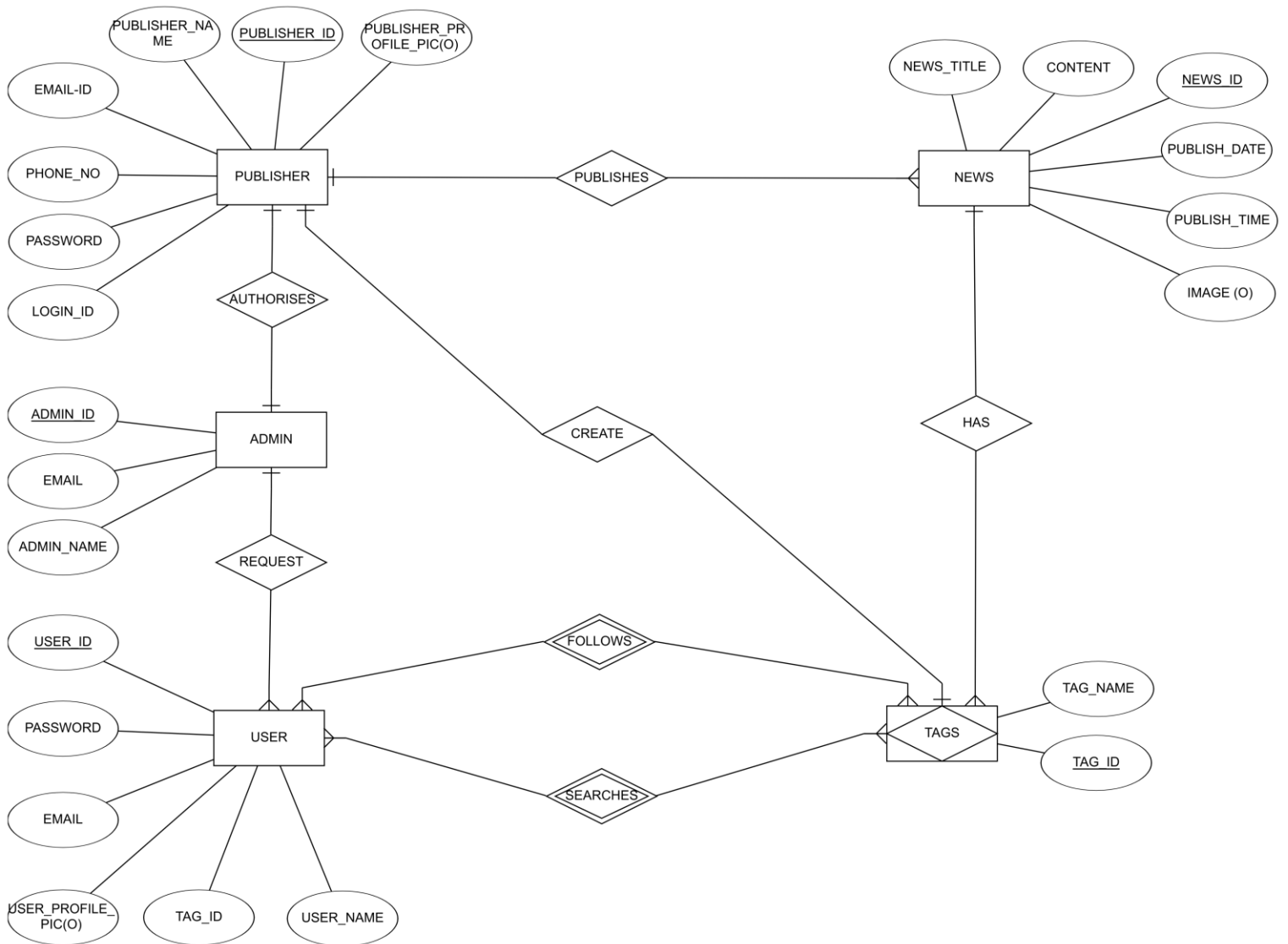 FOREIGN KEY (NEWS_ID) REFERENCES NEWS(NEWS_ID)

);

Entity 5: USER

(

  USER_ID,

  USER_NAME,

  PASSWORD,

  TAG_ID,

  EMAIL,

  USER_PROFILE_PIC,

  ADMIN_ID,

  PRIMARY KEY (USER_ID),

  FOREIGN KEY (ADMIN_ID) REFERENCES ADMIN(ADMIN_ID)

);

RELATIONSHIPS:

1. **(***ADMIN***) AUTHORIZES (***PUBLISHER***):** Admin has given special authorities to publish articles relevant to its club or event or organization, without asking consent before every post.

2. (*PUBLISHER*) **PUBLISHES** (*NEWS*): Publisher publishes news relevant to its category.

3. (*NEWS*) **HAS** (*TAGS*): Every news has a category and it is tagged with its own tag id.

4. (*USER*) **FOLLOWS** (*TAGS*): To get news of a particular club/society/department in the campus, user can follow using tag ids and get a layout which will contain all the news related to that tag searched. But to do so, user must login.

5. (*USER*) **SEARCHES** (*TAGS*): To find a particular news/update related to some category/department user can directly search without logging in.

6. (*PUBLISHER*) **CREATE** (*TAGS*): Each news article is assigned to its tag by the publisher.

7. (*USER*) **REQUESTS** (*ADMIN*): If a user wants to become a publisher, user must get permission from admin to do so. On the request of admin user can get the role of "PUBLISHER".

Entity Relationship Diagram:

RELATIONAL SCHEMA:

PUBLISHER

PUBLISHER
PUBLISHER_ID
PUBLISHER_NAME
EMAIL-ID
PHONE_NO
PASSWORD
LOGIN_ID
PUBLISHER_PROFILE_PIC   (O)
TAG_ID   (FK)

NEWS
NEWS_ID
NEWS_TITLE
CONTENT
PUBLISH_DATE
PUBLISH_TIME
IMAGE   (O)
PUBLISHER_ID   (FK)

FOLLOWS
USER_ID   (FK)
TAG_ID   (FK)

USER
USER_ID
USER_NAME
PASSWORD
TAG_ID
EMAIL
USER_PROFILE_PIC   (O)
ADMIN_ID   (FK)

SEARCHES
USER_ID   (FK)
TAG_ID   (FK)

ADMIN
ADMIN_ID
ADMIN_NAME
EMAIL
PUBLISHER_ID   (FK)

TAGS
TAG_ID
NEWS_ID   (FK)
TAG_NAME