

CS306- PROJECT PHASE 1

Professional Network Management System

GROUP MEMBERS

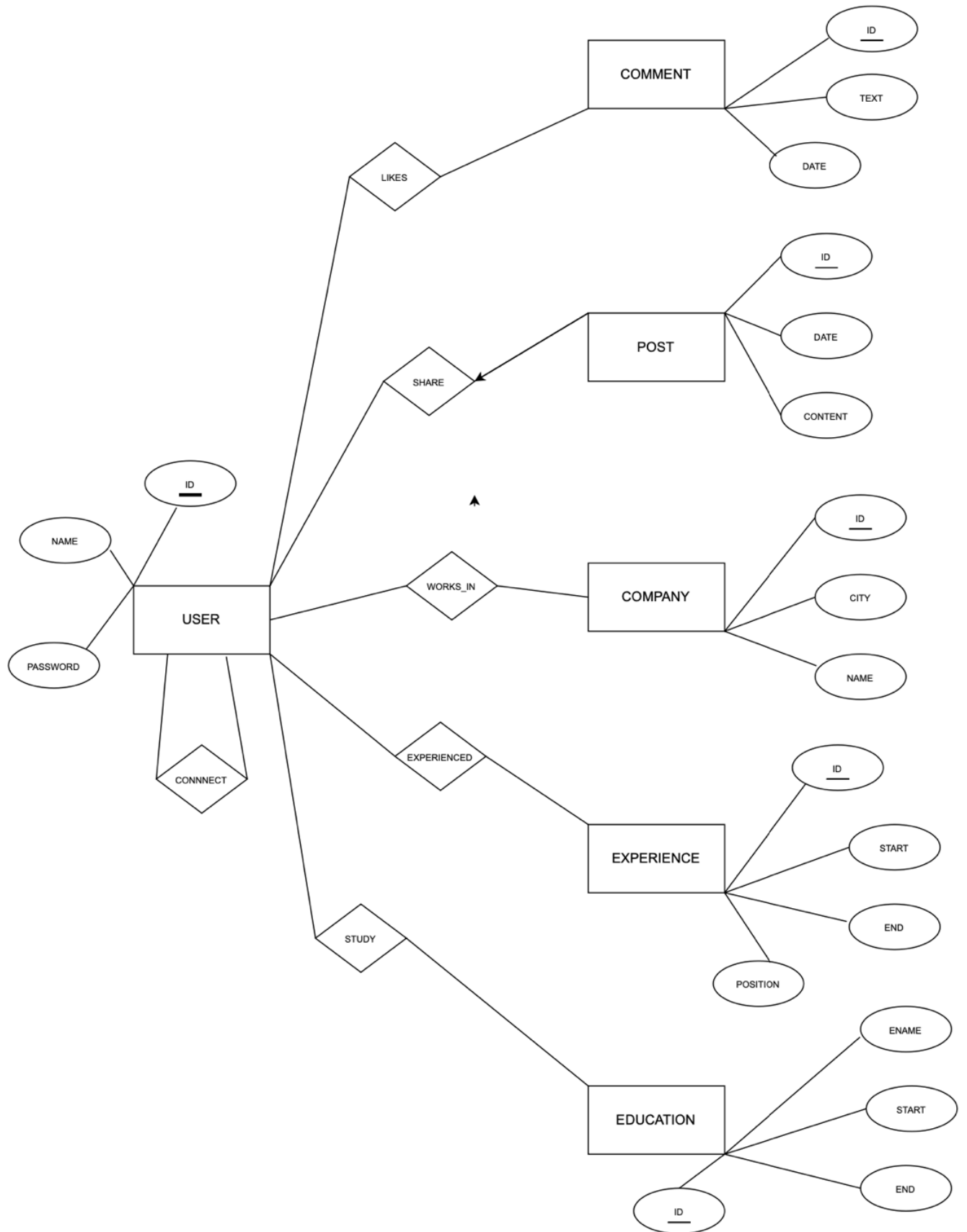
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DESCRIPTION

This project aims to develop a Professional Network Management System, a comprehensive database-driven solution to help users manage their professional connections, experiences, and interactions in the business world. Our database application will be a Professional Network Management System and we will stockpile this data with SQL. The data we will store will be the user's id, posts, comments, company he/she works for, past experiences, education and so on. The functionality of this application is to make suggestions in line with the user's data.

ER MODEL



RELATIONAL MODEL (AS CREATE TABLE STATEMENTS)

```
CREATE TABLE user (  
  ID INTEGER,  
  name VARCHAR(30) NOT NULL,  
  password VARCHAR(30) NOT NULL,  
  CONSTRAINT user_pk PRIMARY KEY (ID)  
);
```

```
CREATE TABLE experience (  
  ID INTEGER,  
  user INTEGER,  
  start DATE,  
  end DATE,  
  position VARCHAR(50),  
  CONSTRAINT exp_pk PRIMARY KEY (id),  
  CONSTRAINT exp_user_fk FOREIGN KEY (user) REFERENCES users (id),  
);
```

```
CREATE TABLE education (  
  ID INTEGER,  
  user_id INTEGER,  
  ename VARCHAR(30) NOT NULL,  
  start DATE,  
  end DATE,  
  CONSTRAINT education_pk PRIMARY KEY (ID),  
  CONSTRAINT education_fk_user FOREIGN KEY (user_id) REFERENCES USER (ID)  
);
```

```
CREATE TABLE worksin (  
  company INTEGER,  
  user INTEGER,  
  CONSTRAINT worksin_pk PRIMARY KEY (company, user),  
  CONSTRAINT worksin_company_fk FOREIGN KEY (company) REFERENCES company (id) ON  
DELETE CASCADE,  
  CONSTRAINT worksin_user_fk FOREIGN KEY (user) REFERENCES users (id)  
);
```

```
CREATE TABLE company (  
  ID INTEGER,  
  city VARCHAR(30),  
  name VARCHAR(255) NOT NULL,  
  CONSTRAINT company_pk PRIMARY KEY (ID)  
);
```

```
CREATE TABLE post (  
  ID INTEGER,  
  share_usr INTEGER,
```

```
    date DATE,  
    text VARCHAR (300),  
    CONSTRAINT post_pk PRIMARY KEY (id),  
    CONSTRAINT post_share_usr_fk FOREIGN KEY (share_usr) REFERENCES users (id)  
);
```

```
CREATE TABLE comment (  
    ID INTEGER,  
    text VARCHAR(200) NOT NULL,  
    date DATE,  
    CONSTRAINT comment_pk PRIMARY KEY (ID)  
);
```

```
CREATE TABLE comments_likes (  
    user INTEGER,  
    comment INTEGER,  
    CONSTRAINT comm_like_usr_fk FOREIGN KEY (user)  
    REFERENCES users (id),  
    CONSTRAINT comm_like_comp_fk FOREIGN KEY (comment)  
    REFERENCES comments (id)  
);
```

```
CREATE TABLE connect (  
    user_id1 INTEGER NOT NULL,  
    user_id2 INTEGER NOT NULL,  
    CONSTRAINT connect_fk_user1 FOREIGN KEY (user_id1) REFERENCES USER (ID),  
    CONSTRAINT connect_fk_user2 FOREIGN KEY (user_id2) REFERENCES USER (ID)  
);
```