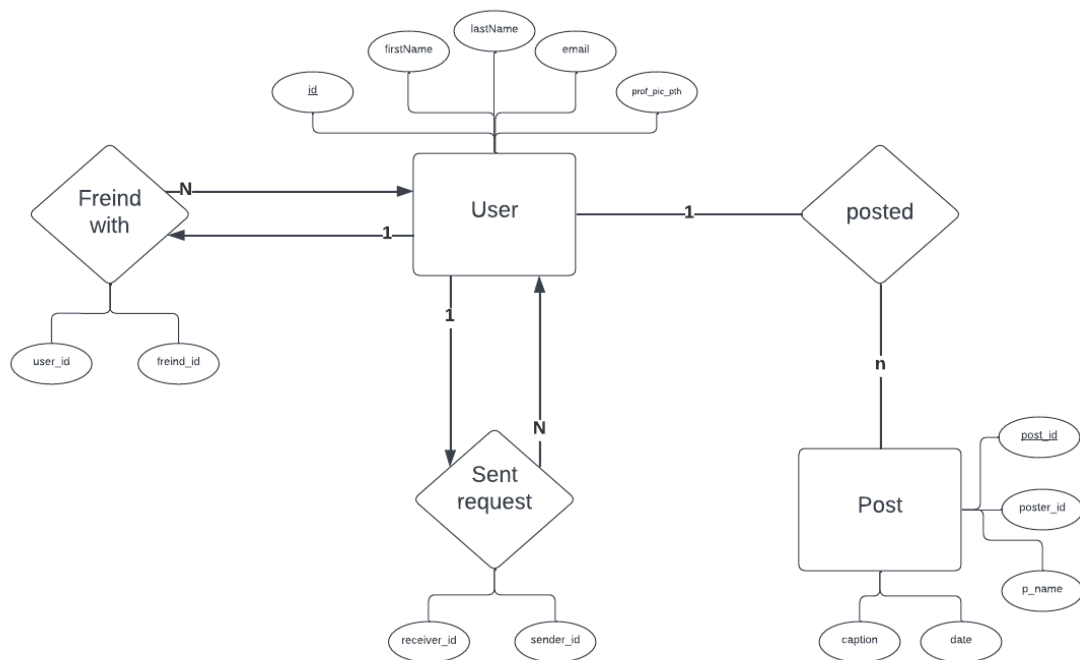


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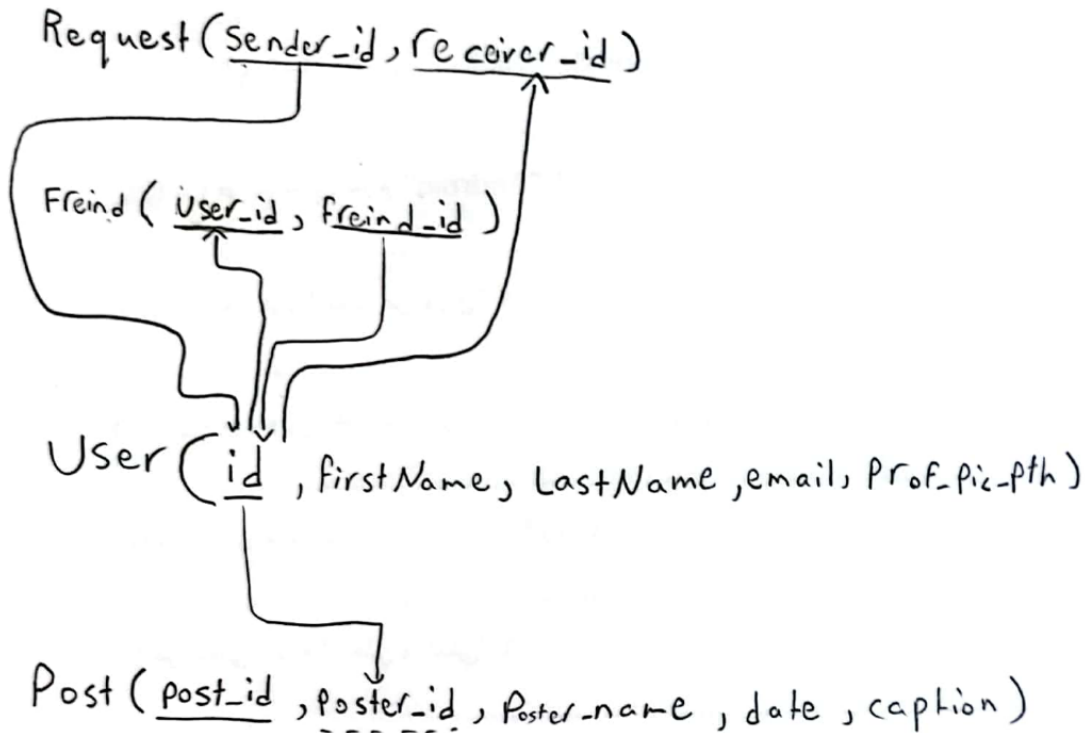
## Data Engineering Project Social Network

### ER Diagram:



This is a foreign key,  
I'm not sure if it should  
be marked or not

## Relational Schema:



## DDL :

The DDL used can be found in ./scripts, I will attach a screenshot,

### - Database Creation + users table

```
connection.query('CREATE DATABASE ' + dbconfig.database);
connection.query('\
CREATE TABLE ` ` + dbconfig.database + `.` ` + dbconfig.users_table + ` ` ( \
  `id` INT UNSIGNED NOT NULL AUTO_INCREMENT, \
  `firstName` VARCHAR(20) NOT NULL, \
  `lastName` VARCHAR(20) NOT NULL, \
  `email` VARCHAR(50) NOT NULL, \
  `password` VARCHAR(1024) NOT NULL, \
  `picPath` VARCHAR(1024) NOT NULL DEFAULT "default.png", \
  `token` TEXT, \
  `reqNum` INT DEFAULT 0, \
  PRIMARY KEY (`id`), \
  UNIQUE INDEX `id_UNIQUE` (`id` ASC) \
);
```

## - Creating the rest of tables

```
connection.query('\n
CREATE TABLE `'+ dbconfig.database + '`.`'+ dbconfig.posts_table + '` ( \n
  `id` INT UNSIGNED NOT NULL AUTO_INCREMENT, \n
  `user_id` INT UNSIGNED NOT NULL, \n
  `body` MEDIUMTEXT NOT NULL,\n
  `published_on` DATETIME NOT NULL, \n
  PRIMARY KEY (`id`), \n
  FOREIGN KEY (`user_id`) REFERENCES users(`id`), \n
  UNIQUE INDEX `id_UNIQUE` (`id` ASC) \n
)');

connection.query('\n
CREATE TABLE `'+ dbconfig.database + '`.`'+ dbconfig.friend_req_table+ '` ( \n
  `sender_id` INT UNSIGNED NOT NULL, \n
  `receiver_id` INT UNSIGNED NOT NULL, \n
  FOREIGN KEY (`sender_id`) REFERENCES users(`id`), \n
  FOREIGN KEY (`receiver_id`) REFERENCES users(`id`), \n
  PRIMARY KEY (`sender_id`,`receiver_id`) \n
)');

connection.query('\n
CREATE TABLE `'+ dbconfig.database + '`.`'+ dbconfig.friends_table + '` ( \n
  `user_id` INT UNSIGNED NOT NULL, \n
  `freind_id` INT UNSIGNED NOT NULL, \n
  PRIMARY KEY (`user_id`,`freind_id`), \n
  FOREIGN KEY (`user_id`) REFERENCES users(`id`), \n
  FOREIGN KEY (`freind_id`) REFERENCES users(`id`) \n
)');
```

## **Division of Labor Among Group:**

### **Nawar :**

- Login-Logout-Register
- Database and Table Creation
- Post Creation and querying all posts
- ERD,Schema,Report
- Advanced Search Query

### **Fady:**

- Profile Edit and Profile Picture
- Friends
- Friend Requests
- Searching users (implementation)