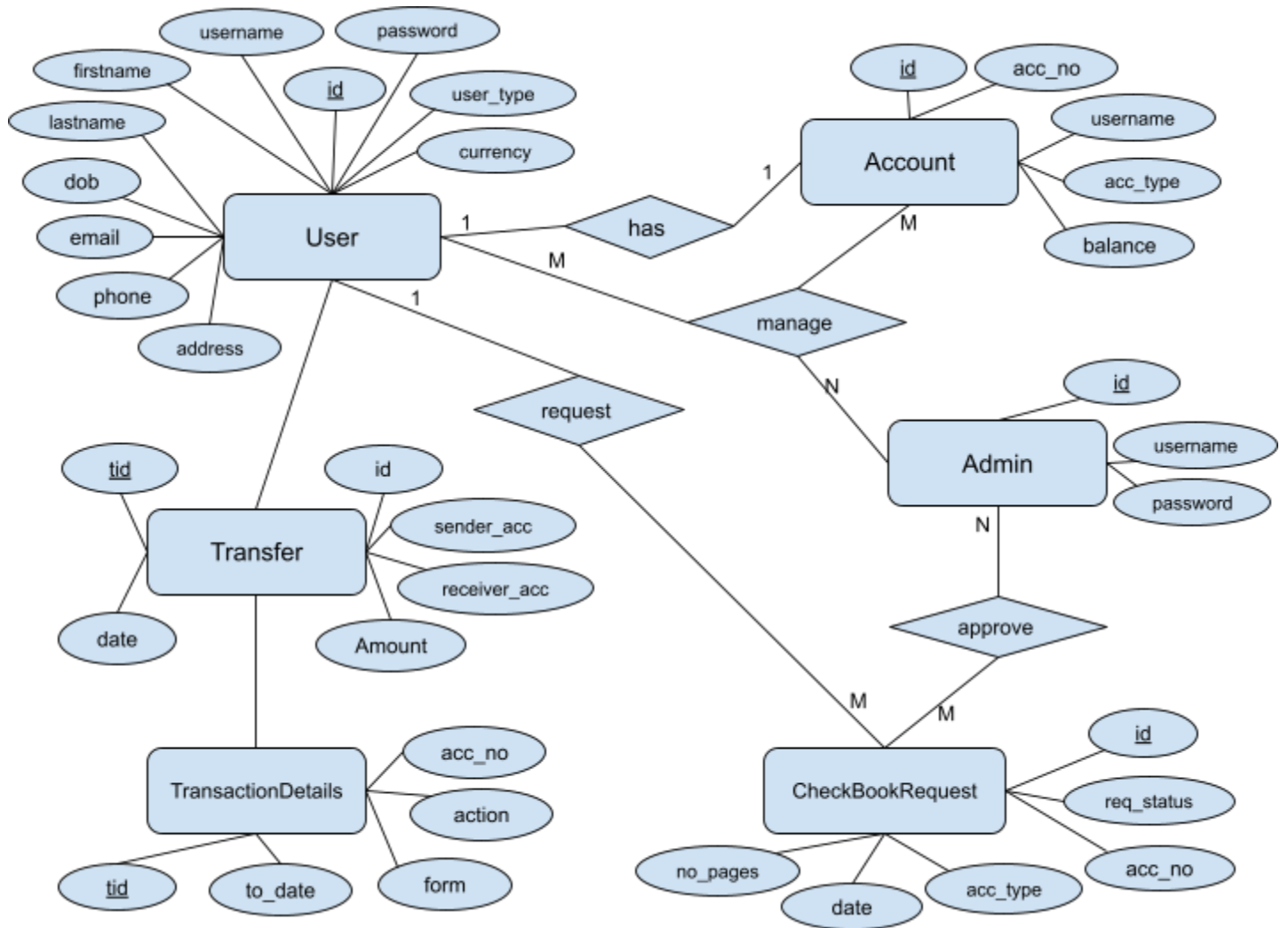# ICIN Bank - DB Design

Entity Relationship Diagram Model

MySQL Code

```
CREATE TABLE user
(
      id BIGINT (10) NOT NULL,
      firstname VARCHAR(30),
      lastname VARCHAR(30),
      email VARCHAR(30),
      phone VARCHAR(10),
      address VARCHAR(50),
      username VARCHAR(15),
      password VARCHAR(15),
      user_type VARCHAR(10),
      currency VARCHAR(10),
      dob DATE,
      PRIMARY KEY(id)
);


CREATE TABLE account
(
      id BIGINT(10) NOT NULL,
      acc_no VARCHAR(10) NOT NULL,
      acc_type VARCHAR(10),
      balance decimal(19,2),
      PRIMARY KEY(id),
      FOREIGN KEY(id) REFERENCES user(id)
);


CREATE TABLE transfer
(
      tid BIGINT (10) NOT NULL,
      id BIGINT (10) NOT NULL,
      sender_acc VARCHAR(10),
      receiver_acc VARCHAR(10),
      amount decimal(19,2),
      date DATE,
      PRIMARY KEY(tid),
      FOREIGN KEY(id) REFERENCES user(id)
);
```

```sql
CREATE TABLE transaction_details
(
        tid BIGINT (10) NOT NULL,
        acc_no VARCHAR(10) NOT NULL,
        form VARCHAR(10),
        action VARCHAR(10),
        to_date DATE,
        PRIMARY KEY(tid),
        FOREIGN KEY(tid) REFERENCES transfer(tid)
);


CREATE TABLE check_book_request
(
        id BIGINT (10) NOT NULL,
        req_status VARCHAR(10),
        acc_no VARCHAR(10),
        acc_type VARCHAR(10),
        no_pages VARCHAR(10),
        date DATE,
        PRIMARY KEY(id),
        FOREIGN KEY(id) REFERENCES user(id)
);


CREATE TABLE admin
(
        id BIGINT (10) NOT NULL,
        username VARCHAR(15) NOT NULL,
        password VARCHAR(15) NOT NULL,
        PRIMARY KEY(id
);
```