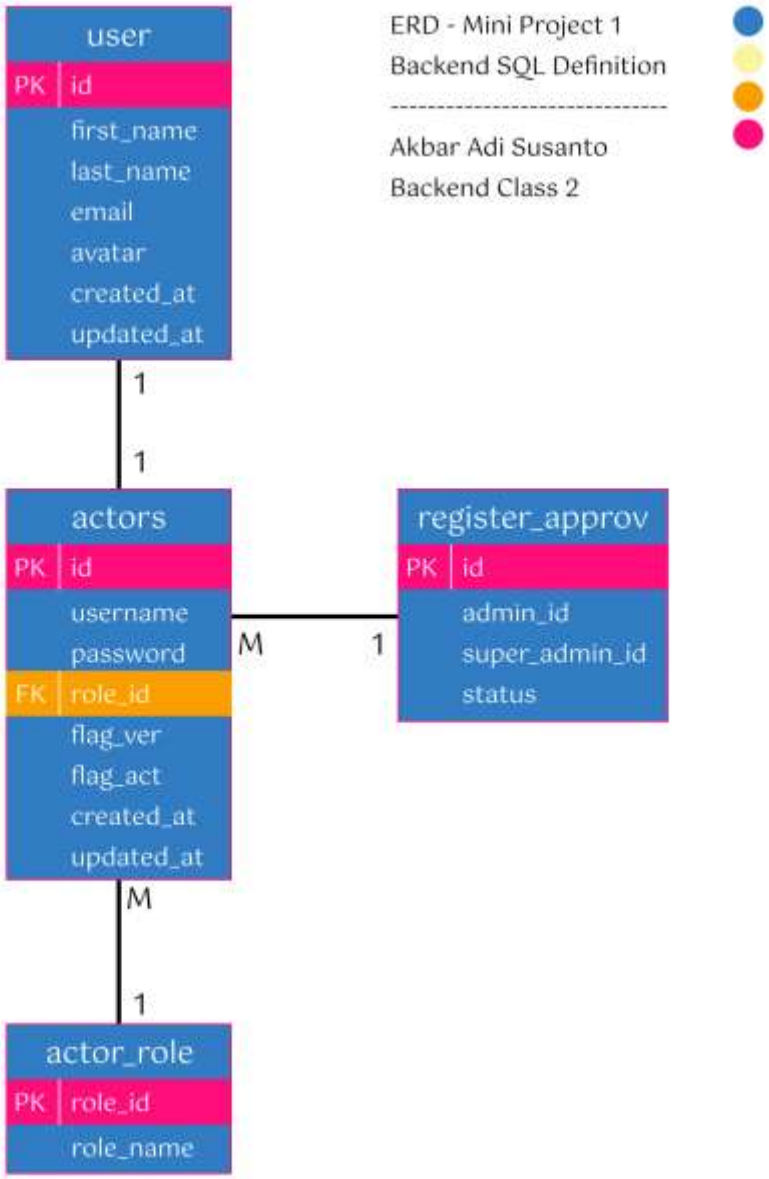
Backend SQL Definition
Mini Project 1

Documentation – **Akbar Adi Susanto** (BE 2)

I. Create ERD how you want to design the database based on the configuration at milestone 2. (you can create erd at https://app.diagrams.net/ or figma.com)

Answer :



II. Initiate the database schema on mySQL server.

Create table actors which will contain information about as follow:

- Id (bigint unsigned)
- Username (varchar)
- Password (varchar)
- Role id (int unsigned)
- Flag for actor if its verified (enum('true', 'false')
- Flag for actor if its active (enum('true', 'false')
- Created at (timestamp)
- Updated at (timestamp)

Create table for user/customer which will contain information about as follow:

- id (bigint unsigned)
- first name (varchar)
- last name (varchar)
- email (varchar)
- Avatar (varchar)
- Created at (timestamp)
- Updated at (timestamp)

Create table for storing each unique actor role which are admin and super admin, the
table consist:

- id (int unsigned)
- Role name (varchar)

Create table register approval which will be used to get a list of admin registration that
need to be approved by super admin. The data consist:

- id (bigint unsigned)
- admin_id (bigint unsigned)
- super_admin_id (bigint unsigned)
- status (varchar)

Add foreign key to role id which reference table is table role.

Answer :
Login

```
mysql -u root -p
Enter password: *****
```

Create and use database

```
create database milestone1;
use milestone1;
```

Create table actors

```
create table actors(
        -> id bigint unsigned auto_increment,
        -> username varchar(100),
        -> password varchar(100),
        -> role_id int unsigned,
        -> flag_ver enum('true', 'false'),
        -> flag_act enum('true', 'false'),
        -> created_at timestamp,
        -> updated_at timestamp,
        -> primary key(id));
```

Create table user

```
create table user(
        -> id bigint unsigned auto_increment,
        -> first_name varchar(100),
        -> last_name varchar(100),
        -> email varchar(100),
        -> avatar varchar(100),
        -> created_at timestamp,
        -> updated_at timestamp,
        -> primary key(id));
```

Create table actor_role

```
create table actor_role(
        -> role_id int unsigned,
        -> role_name varchar(100),
        -> primary key(role_id));
```

Create table register_approv

```
create table register_approv(
        -> id bigint unsigned,
        -> admin_id bigint unsigned,
        -> super_admin_id bigint unsigned,
        -> status varchar(50),
        -> primary key(id));
```

Update role_id from table actors to foreign key reference to table actor_role

```
alter table actors
        -> add foreign key (role_id) references actor_role(role_id);
```

Update current_timestamp from table user

```
alter table user
        -> change created_at
        -> created_at timestamp
        -> default current_timestamp
        -> on update current_timestamp;
```

Insert data from https://reqres.in/api/users?page=2 to table user

```
insert into user (first_name, last_name, email, avatar) value ('Michael', 'Lawson', 'michael.lawson@reqres.in', 'https://reqres.in/img/faces/7-image.jpg');
.
.
.
insert into user (first_name, last_name, email, avatar) value ('Rachel', 'Howell', 'rachel.howell@reqres.in', 'https://reqres.in/img/faces/12-image.jpg');
```

Select data from table user

```
select * from user;
```

id	first_name	last_name	email	avatar	created_at	updated_at
1	Michael	Lawson	michael.lawson@reqres.in	https://reqres.in/img/faces/7-image.jpg	2023-05-30 21:17:53	NULL
2	Lindsay	Ferguson	lindsay.ferguson@reqres.in	https://reqres.in/img/faces/8-image.jpg	2023-05-30 21:18:07	NULL
3	Tobias	Funke	tobias.funke@reqres.in	https://reqres.in/img/faces/9-image.jpg	2023-05-30 21:18:11	NULL
4	Byron	Fields	byron.fields@reqres.in	https://reqres.in/img/faces/10-image.jpg	2023-05-30 00:00:00	NULL
5	George	Edwards	george.edwards@reqres.in	https://reqres.in/img/faces/11-image.jpg	2023-05-30 21:15:30	NULL
6	Rachel	Howell	rachel.howell@reqres.in	https://reqres.in/img/faces/12-image.jpg	2023-05-30 21:19:16	NULL

6 rows in set (0.00 sec)

III. For the super admin, create a mysql user that can access the database through the
mysql server with the same username and password, also the host is 0.0.0.0.

Answer:

```
create user 'superadmin'@'0.0.0.0' identified by 'superadmin';
grant all privileges on milestone1.* to 'superadmin'@'0.0.0.0';
```

IV. Export the database schema into a sql file using mysqldump

Answer:

```
mysqldump -u root -pmysql milestone1 > "D:\Belajar Bootcamp Go\Mini-Project 1\my_sql_dump.sql"
```