ER-Diagram

Product_images
pro_img_id   (int)(pk)(NN)(AI)
pro_img   (medium blob)

Designers
did   (int)(NN)(pk)(AI)
d_name   (varchar)
d_labelname   (varchar)
d_phone   (int)
d_email   (varchar)(UK)
d_address   (text)
d_state   (varchar(2))
d_city   (varchar(50))
d_zipcode   (int)
d_specialist   (Boolean)

Des_pro

Img_store

Product
pid   (int)(pk)(NN)(AI)
pro_name   (varchar)
pro_desc   (text)
color_name   (varchar)
size_types   (varchar(7))
fiber_context   (text)
pro_price   (float)
pro_tags   (varchar)
made_in_NY   (Boolean)
novelity_of_items (varchar)

comments
time_posted   (timestamp)
body   (text)

P_co

U_co

users
uid   (int)(NN)(AI)(PK)
email   (varchar)(UK)(NN)
password   (varchar)(NN)
u_points   (int)
u_title   (varchar)
username   (varchar)
f_name   (varchar)
l_name   (varchar)
birthday   (date)
city   (varchar(50))
state   (varchar(2))

Pro_likes

pro_likes

Pro_bou

pro_types

Product_types
pro_types_id (int)(pk)(NN)(AI)
name   (varchar)

Boutiques
bid   (int)(pk)(NN)(AI)
b_img   (medium blob)
b_name   (varchar)
b_address   (text)
b_city   varchar(50))
b_state   (varchar(2))
b_zipcode   (int)
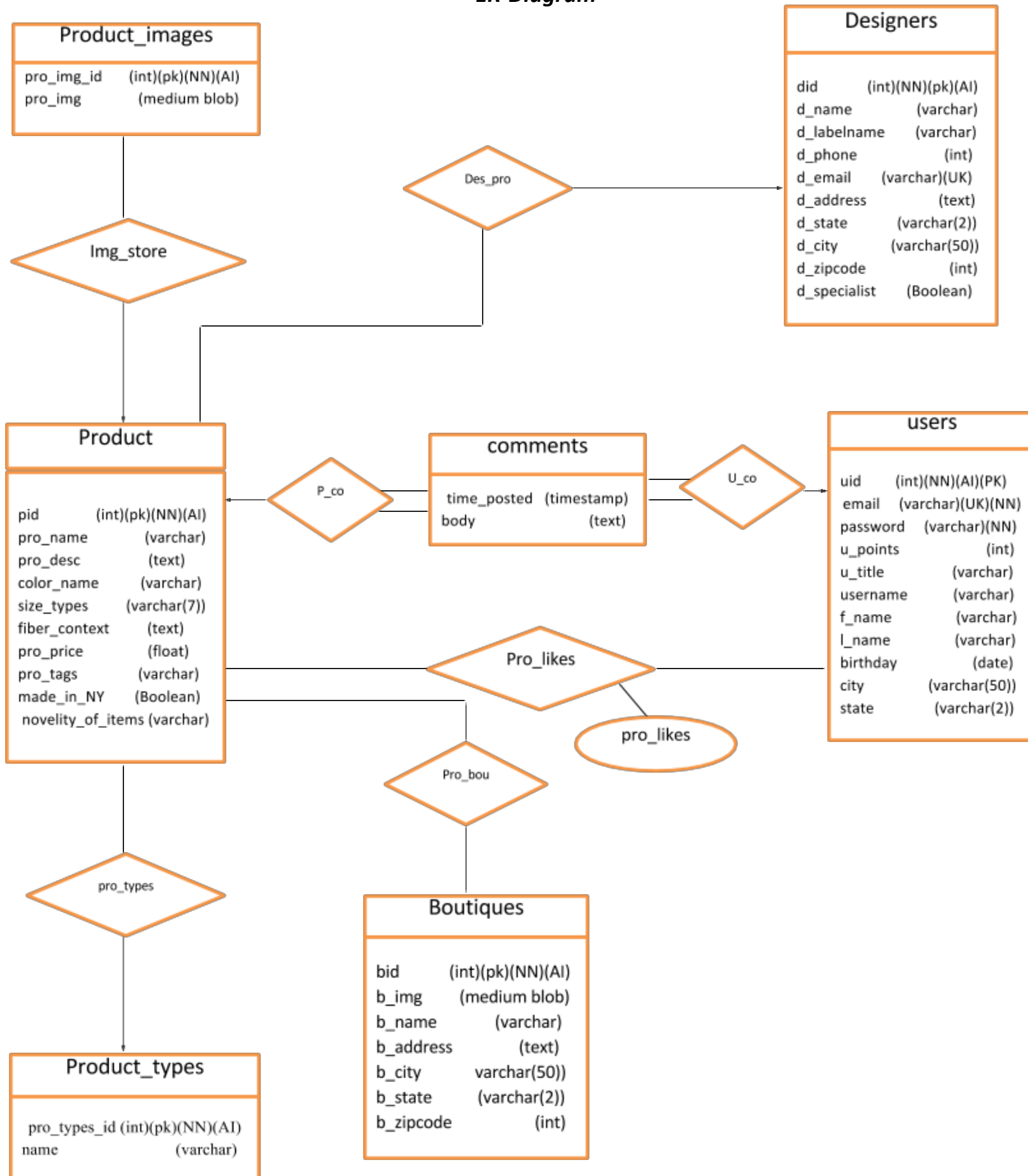
Description for ERD:

- Entity **Comments** is a week entity as it don't have its own primary key and it is totally participated in entity Product and Users.
- Entity boutiques and entity product has a many to many relationship and when there is a many to many relationship between two entities, relationship set **Pro_bou** will be formed into a new table consisting primary keys of both the entity.
- All the attribute name starts with small letters and entity names starts with capital letter.

The following are the relation schema for our project:

- Users (uid, email, password, u_points, u_title, username, f_name, l_name, birthday, city, state)
    Primary Key: uid

- Designer (did, d_name, d_labelname, d_phone, d_email, d_address, d_state, d_city, d_zipcode, d_specialist)
    Primary key: did

- Product (pid, pro_name, pro_desc, color_name, size_types, fiber_context, pro_price, pro_tags, made_in_NY, novelity_of_items)
    Primary Key: pid

- Product_types (pro_types_id, name)
    Primary Key: pro_types_id

- Product_images (pro_img_id, pro_img, pid, did)

    Primary key: pro_img_id

    Foreign key: pid referencing product.pid

        did referencing designer.did

- Boutiques (bid, b_img, b_name, b_address, b_city, b_state, b_zipcode)
    Primary key: bid

- Pro_likes (uid, pid, liked)
    Primary key: uid, pid
    Foreign key: uid referencing users.uid
        pid referencing product.pid

- comments (uid, pid, time_posted, body)
    - Primary key: uid, time_posted
    - Foreign key: uid referencing users.uid
        - pid referencing product.pid

- pro_bou (pid, bid)
    - Primary key: pid, bid
    - Foreign key: pid referencing product.pid
        - Bid referencing boutique.bid

Queries for creating the table:

```
create table Users (
  uid bigint unsigned not null auto_increment,
  email varchar(255) unique not null,
  password varchar(255) not null,
  u_points int not null,
  u_title varchar(255),
  user_name varchar(255),
  f_name varchar(255),
  l_name varchar(255),
  birthday date,
  city varchar(50),
  state varchar(2),
  primary key (uid)
);


create table Designer (
did bigint unsigned not null auto_increment,
d_name varchar(255),
d_labelname varchar(255),
d_phone_number unsigned int,
d_email varchar(255),
d_address text,
d_state varchar(2),
d_city varchar(50),
d_zipcode unsigned int,
d_specialities boolean,
foreign key (pid) references product(pid)
foreign key (bid) references boutiques(bid)
);


create table Product (
  pid bigint unsigned not null auto_increment,
  pro_name varchar(255),
  pro_desc text,
  color_name varchar(255),
```

```sql
    size_types varchar(7),
    fiber_context text,
    pro_price unsigned float,
    pro_tags varchar(255),
    made_in_ny boolean,
    novelty_of_item varchar(255),
    primary key (product_id)
    foreign key (pro_img_id) references product_images(pro_img_id),
    foreign key (did) references designer(did),
);


create table Product_types (
    pro_types_id bigint unsigned not null auto_increment,
    name varchar(255),
    primary key (pro_types_id)
);


create table Product_images (
    pro_img_id bigint unsigned not null auto_increment,
    pro_img mediumblob,
    pid bigint unsigned not null,
    did bigint unsigned not null,
    primary key (pro_img_id),
    foreign key (pid) references product(pid),
    foreign key (did) references designer(did)
);


create table Pro_likes (
    uid bigint unsigned not null, /* the person who liked the product */
    pid bigint unsigned not null,
    liked boolean,
    primary key (uid, pid),
    foreign key (uid) references users(uid),
    foreign key (pid) references product(pid)
);




create table Comments (
    uid bigint unsigned not null, /* the comment's author */
    pid bigint unsigned not null,
    time_posted timestamp,
    body text,
    primary key (uid, time_posted),
    foreign key (uid) references users(uid),
    foreign key (pid) references product(pid)
);


create table Boutiques (
bid bigint unsigned not null auto_increment,
b_image mediumblob,
b_name varchar(255),
b_address text,
```

```
b_city varchar(50),
b_state varchar(2),
b_zipcode unsigned int,
foreign key (did) references designer(did),
foreign key (pid) references product(pid)
);
```

Create table Pro_bou (

pid bigint unsigned not null,

bid bigint unsigned not null

);