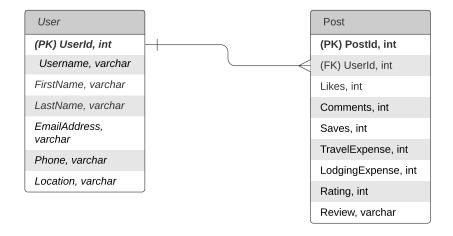
Christopher Jackson SWDV691 Week 2

Design: Database

**Database Technology:** *Document Database Design, MongoDB*. For this project I will be using the document database store because of the two important pieces of data: User and Post. The User and Post will be two separate entities related through a one-to-many relationship. A User can have multiple Post related through the primary key of the User entity, UserId.

## **Database Structures:**

## **DBMS** Diagram



## JSON Structures

```
"userId": 5409,

"username": "tomanderson",

"firstName": "Thomas",

"lastName": "Andersen",

"emailAddress ": "thomasanderson@fakenews.com",

"phone ": "314-555-5555",

"post": [

{

    "postId": 143,
```

```
"userld": 5409,

"likes": 110,

"comments": 7,

"saves": 24,

"travelExpense": 300,

"lodgingExpense": 450,

"rating": 4,

"review": "Money well spent! Highly recommended."

}

],

}
```

## **Usage:**

- User the User collection will be used when someone goes to the website
  to create an account. When the account is created there will be a few
  pieces of required information and the ID will be randomly generated. Once
  all the correct information is provided the collection will be created and
  stored in the database. Since the information is stored in the database the
  user will have the ability to update the information and also delete the
  account. The user ID and username will both be unique.
- Post the Post collection will be used when a registered user creates an account. A user will have to provide a few pieces of information and the ID for that particular post will be randomly generated. A user is allowed to have multiple posts and they will all be tracked based on their post ID. The user also has the capability to update and delete a post that they created. All this information will be stored in the database.