Common Mongoose Commands

Learning Objectives:

• Learning the syntax to leverage basic CRUD operations with Mongoose

Here is a list and examples of some common Mongoose Commands you may need to use. These will be used in most Mongoose projects so make sure to practice them as much as you can.

Defining a User Schema

```
// Create a Schema for Users
const UserSchema = new mongoose.Schema({
  name: { type: String },
  age: { type: Number }
}, { timestamps: true })
// create a constructor function for our model and store in variable 'User'
const User = mongoose.model('User', UserSchema);
```

Finding all Users

Finding all Users where their name is Jessica

Finding one User by id

Create a user

```
// ...create a new document to store in the User collection and save it to the DB.
const bob = new User(req.body);
// reg.body is an object containing all the users data.
// if we look at req.body as an object literal it would look like this
       /*
     * req.body = {
               "name": "Bob Ross",
                "age": 42
    * }
    **/
bob.save()
   .then(newUser => {
       // logic with successfully saved newUser object
    .catch(err => res.json(err));
// If there's an error and the record was not saved, this (err) will contain validation err
ors.
```

Create a user (simplified)

Delete all users

Delete one user

Update one record

```
// ...update 1 document that matches the query object criteria
User.updateOne({name:'Bob Ross'}, {
    name: 'Ross Bob',
    $push: {pets: {name: 'Sprinkles', type: 'Chubby Unicorn' }}
})
.then(result => {
    // logic with result -- note this will be the original object by default!
    })
.catch(err => res.json(err));
```

Advanced Queries

An alternative way to update a record

```
User.findOne({name: 'Bob Ross'})
    .then(user => {
        user.name = 'Rob Boss';
        user.pets.push({name: 'Sprinkles', type: 'Chubby Unicorn'});
        return user.save();
    })
    .then(saveResult => res.json(saveResult))
    .catch(err => res.json(err));
```

Validate for uniqueness before creating new DB entry

```
User.exists({name: req.body.name})
.then(userExists => {
    if (userExists) {
        // Promise.reject() will activate the .catch() below.
        return Promise.reject('Error Message Goes Here');
    }
    return User.create(req.body);
})
.then(saveResult => res.json(saveResult))
.catch(err => res.json(err));
```

For more resources on mongoose commands: http://mongoosejs.com/docs/index.html