Munkhbold Dembel Student ID: 610760 Lab-6

My today's assignment can be found at: https://github.com/munkhbold/CS572/tree/master/w1d6. I completed all tasks. It took me about 3 hours to finish this lab.

1. Created db connection in utils/database.js

```
const mongoClient = require("mongodb");
let _db;
const mongoConnect = function(callback){
  mongoClient.connect('mongodb://localhost:27017', { useUnifiedTopology: 
true})
              .then(client => {
                console.log('DB connected ...');
                _db = client.db('onlineshop');
                callback();
              }).catch(error => {
                throw new Error("DB connection failed");
              });
};

const getDb = function (){
    if(_db) return _db;
    else throw new Error("DB selection failed");
};

exports.mongoConnect = mongoConnect;
exports.getDb = getDb
```

2. Get data from database and return promise object

```
module.exports = class Product {
…
  save() {
    const db = getDb();
    return db.collection('products').insertOne(this);
  }

  update() {
    const db = getDb();
    return db.collection('products').updateOne({ _id: new 
ObjectId(this._id)}, {$set:{
      title: this.title,
      imageUrl: this.imageUrl,
      price: this.price,
      description: this.description
    }});
  }

  static fetchAll() {
    const db = getDb();
    return db.collection('products').find().toArray();
  }

  static findById(prodId) {
    const db = getDb();
    return db.collection('products').findOne({ _id: new ObjectId(prodId) });
  }
…
  static deleteById(prodId) {
    const db = getDb();
    return db.collection('products').deleteOne({ _id: new
ObjectId(prodId) });
  }
}
```

3. **Return response after get result from promise object**

```
exports.getProducts = (req, res, next) => {
    Product.fetchAll().then(products=>{
        res.render('admin/products', {
           …
            prods: products
        });
    });
};

exports.postAddProduct = (req, res, next) => {
…
    const product = new Product(null, title, imageUrl, price, description);
    product.save().then(result=>{
        res.redirect('/admin/products/');
    });
};

exports.getEditProduct = (req, res, next) => {
    const prodId = req.params.prodId;
    Product.findById(prodId).then(product=>{
        res.render('admin/edit-product', {
            product: product,
           …
        });
    });
};

exports.postEditProduct = (req, res, next) => {
…
    const product = new Product(id, title, imageUrl, price, description);
    product.update().then(result=>{
        res.redirect('/products/' + product._id);
    });
}

exports.postDeleteProduct = (req, res, next) => {
    Product.deleteById(req.body.id).then(result=>{
        res.redirect('/admin/products');
    })
}
```