Homework -1

1. Add product to shopping cart

Product class inside model to add and save the product

```
const products = [];
class Product {
    constructor(title, brand, price, image, description) {
        this.title = title;
        this.brand = brand;
        this.price = price;
        this.image = image;
        this.description = description;
    }
    save() {
        products.push(this);
    }
    static findAll() {
        return products;
    }
}
module.exports = Product;
```

controller class

```

const Product = require('../model/product');
const rootDir = require('../util/path');

const path = require('path');
exports.getProductForm = (req, res, next) => {
    res.sendFile(path.join(rootDir, 'views', 'add-product.html'));

exports.postProductForm = (req, res, next) => {
    console.log('productlist ..');
    const title = req.body.title;
    const brand = req.body.brand;
    const price = req.body.price;
    const image = req.body.image;
    const description = req.body.description;
    const prod = new Product(title, brand, price, image, description);
    prod.save();
    console.log(Product.findAll());
    res.redirect('/');
}
```

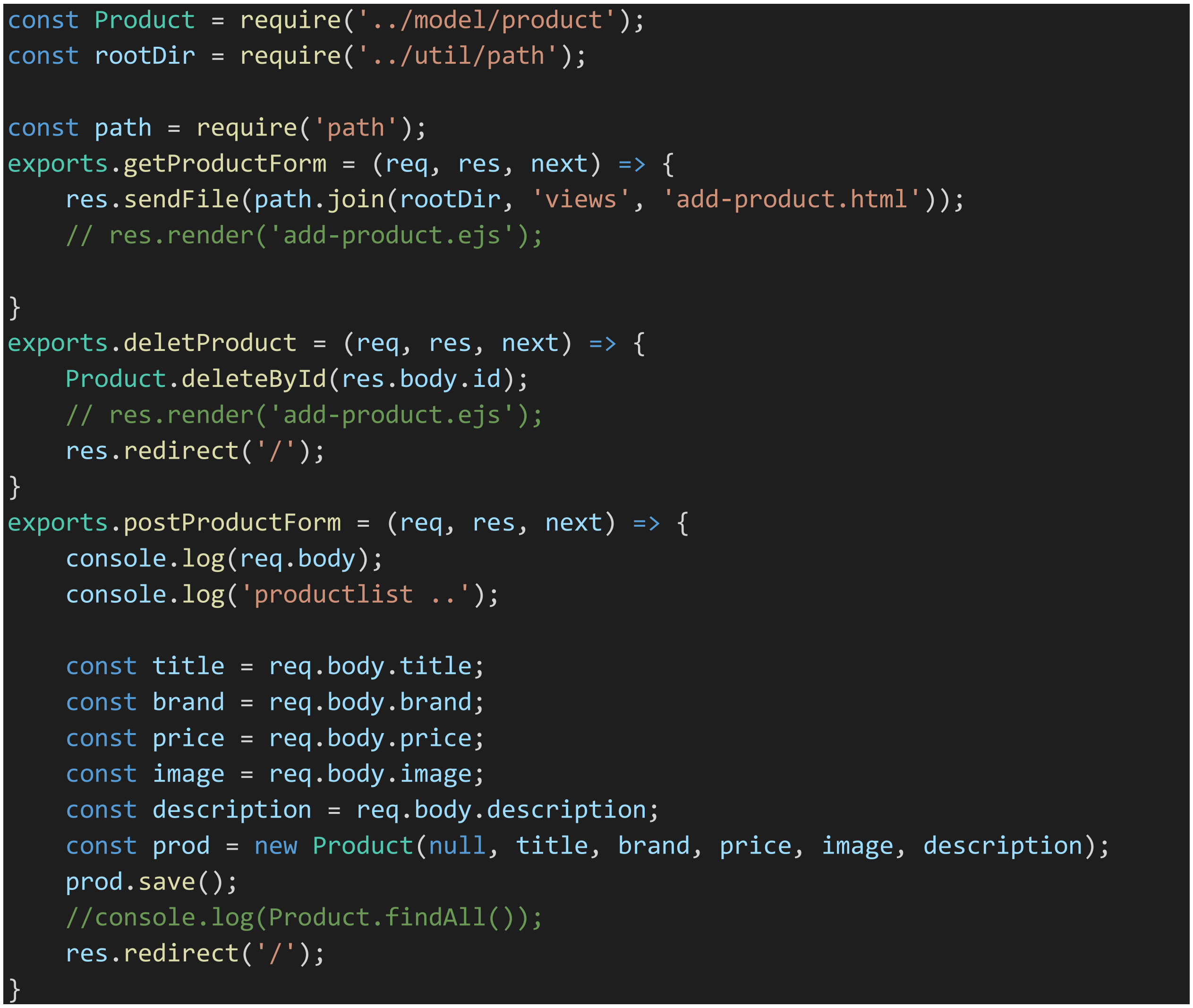
```
//router
const express = require('express');
const path = require('path');
const rootDir = require('../util/path');
const adminController = require('../controller/admin');
const options = {
    "caseSensitive": false,
    "strict": false
};
const router = express.Router(options);

router.get('/add-product', adminController.getProductForm);

router.post('/add-product', adminController.postProductForm);

module.exports = router;
```

2. Delete product from shopping cart

   Product class

```
const products = [];
class Product {
    constructor(id, title, brand, price, image, description) {
        this.id = id;
        this.title = title;
        this.brand = brand;
        this.price = price;
        this.image = image;
        this.description = description;
    }
    save() {
        this.id = Math.floor(Math.random() * 1000000);
        products.push(this);
    }
    static findAll() {
        return products;
    }
    static deleteById(prodId) {
        const deleteProductIndex = products.findIndex(p => p.id == prodId);
        products.splice(deleteProductIndex, 1);
    }
}
module.exports = Product;
```

Admin controller



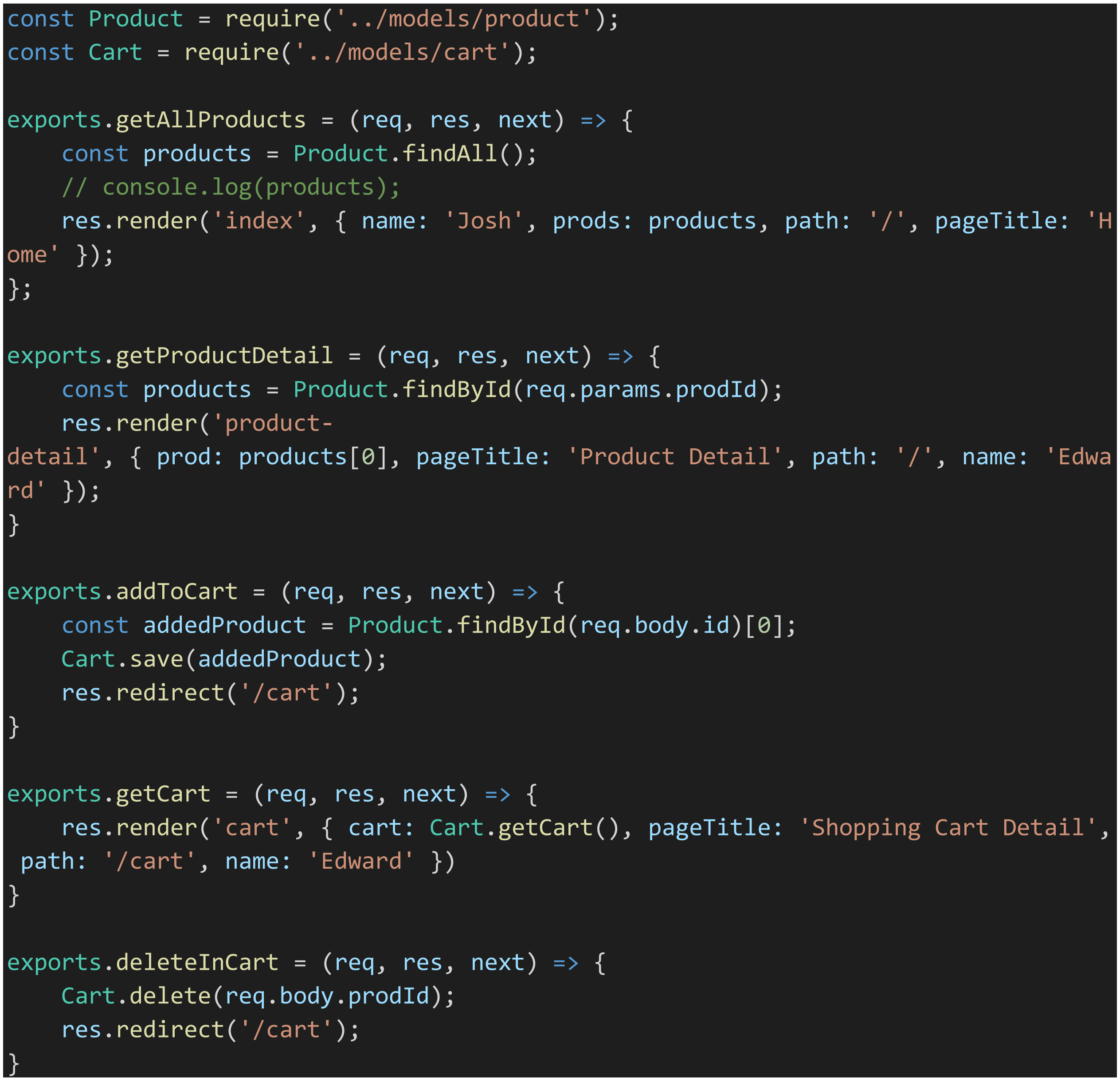
```
const Product = require('../model/product');
const rootDir = require('../util/path');

const path = require('path');
exports.getProductForm = (req, res, next) => {
    res.sendFile(path.join(rootDir, 'views', 'add-product.html'));
    // res.render('add-product.ejs');

}
exports.deletProduct = (req, res, next) => {
    Product.deleteById(res.body.id);
    // res.render('add-product.ejs');
    res.redirect('/');
}
exports.postProductForm = (req, res, next) => {
    console.log(req.body);
    console.log('productlist ..');

    const title = req.body.title;
    const brand = req.body.brand;
    const price = req.body.price;
    const image = req.body.image;
    const description = req.body.description;
    const prod = new Product(null, title, brand, price, image, description);
    prod.save();
    //console.log(Product.findAll());
    res.redirect('/');
}
```

3. Get shopping cart

cart model

```
let cart = null;

module.exports = class Cart {

    static save(product) {

        if (cart === null) {
            cart = { products: [], totalPrice: 0 };
        }

        const existingProductIndex = cart.products.findIndex(p => p.id == product.id); // to check product is existing in cart
        if (existingProductIndex >= 0) { // exist in cart already
            const exsitingProduct = cart.products[existingProductIndex];
            exsitingProduct.qty += 1;
        } else { //not exist
            product.qty = 1;
            cart.products.push(product);
        }

        cart.totalPrice += product.price;
    }

    static getCart() {
        return cart;
    }

    static delete(productId) {
        const isExisting = cart.products.findIndex(p => p.id == productId);
        if (isExisting >= 0) {
            cart.products.splice(isExisting, 1);
        }
    }

}
```

Cart controller



```
const Product = require('../models/product');
const Cart = require('../models/cart');

exports.getAllProducts = (req, res, next) => {
    const products = Product.findAll();
    // console.log(products);
    res.render('index', { name: 'Josh', prods: products, path: '/', pageTitle: 'Home' });
};

exports.getProductDetail = (req, res, next) => {
    const products = Product.findById(req.params.prodId);
    res.render('product-detail', { prod: products[0], pageTitle: 'Product Detail', path: '/', name: 'Edward' });
}

exports.addToCart = (req, res, next) => {
    const addedProduct = Product.findById(req.body.id)[0];
    Cart.save(addedProduct);
    res.redirect('/cart');
}

exports.getCart = (req, res, next) => {
    res.render('cart', { cart: Cart.getCart(), pageTitle: 'Shopping Cart Detail', path: '/cart', name: 'Edward' })
}

exports.deleteInCart = (req, res, next) => {
    Cart.delete(req.body.prodId);
    res.redirect('/cart');
}
```