المملكة العربية السعودية المؤسسة العامة للتدريب التقني والمهني الكلية التقنية بالمدينة المنورة قسم تقنية الخاسب الآلي



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# بسم الله الرحمن الرحيم

# شكر وتقدير

بسم الله الرحمن الرحيم، والحمد لله رب العالمين الذي وفقنا وأعاننا على إنهاء هذا البحث وانطلاقًا من مبدأ أنه لا يشكر الله من لا يشكر الناس، فإننا نتوجه بالشكر الجزيل للمهندس (عمار جوانة) الذي رافقنا في مسيرتنا لإنجاز هذا البحث، ونشكر الأهل والأصدقاء وكل من قدم لنا الدعم المادي أو المعنوي.

# الفهرس

المقدمة	1
الفصل الأول:	
البحث:	
: المتطلبات	
التصميم:	
DATABASE DESGIN	
Low Level Design	
الفصل الثاني: التنفيذ	
سي Code الكود –	
الفصل الثالث: الاختبار والتقييم	
الإختبار الإختبار	
الخاتمة	

# جدول الرسومات التوضيحية

1 HOME	3
2LOGIN	4
3SIGNUP	4
4CART	5
5product details	5
6verify order	6
7 ORDERS	6
8ADD PRODUCTS	7
9 MANAGE ORDERS	7
10TEST	52
<b>11</b> TEST	52
<b>12</b> TEST	52
<b>13</b> TEST	53
<b>14</b> TEST	53
<b>15</b> TEST	53
<b>16</b> TEST	53
<b>17</b> TEST	54
18 TEST	54
<b>19</b> TEST	55
20 TEST	55
<b>21</b> TEST	55
<b>22</b> TEST	56
<b>23</b> TEST	56
24 TEST	56

<b>25</b> TEST	56
<b>26</b> TEST	57

#### المقدمة

بسم الله الرحمن الرحيم، نبدأ تصميم مشروع وهو عبارة عن متجر للبيع والشراء متكون من .HTML, Bootstrap, node js

الفصل الأول:

البحث:

المتطلبات:

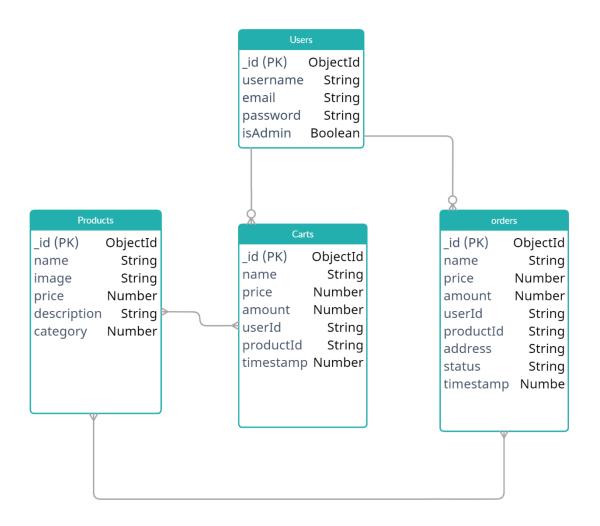
#### Business Roles .1

- Anonymous users can show products
  - Products can be filtered by category •
- Only Registered users can add products to cart
  - User can view and modify his cart •
  - Only Registered users can make orders •
- Registered users can see their orders and track their status
  - Admins can add products •
  - Admins can view and manage all users orders
    - Business Scopes .2
      - Admin •
      - Add product o
    - Manage user's orders o
      - Registered Users •
    - View & filter products o
      - Add products to cart o
        - Manage cart o

- Make orders o
- Track orders o
- Anonymous Users •
- View & filter products o

## التصميم:

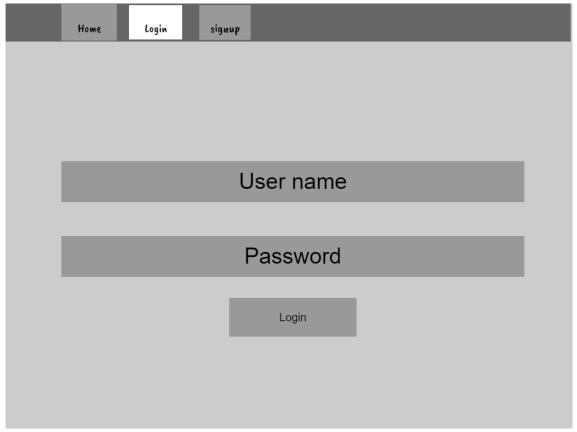
#### **DATABASE DESGIN**



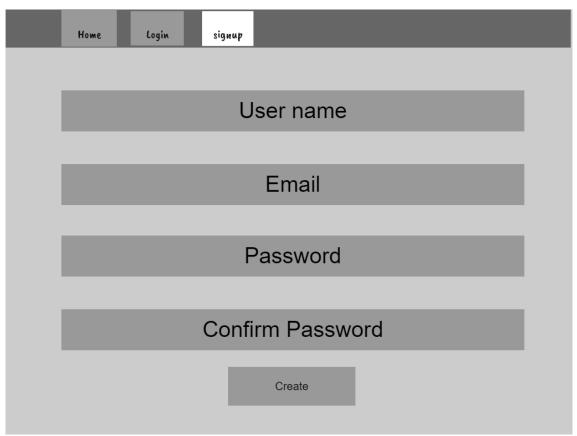
# Low Level Design



1 HOME



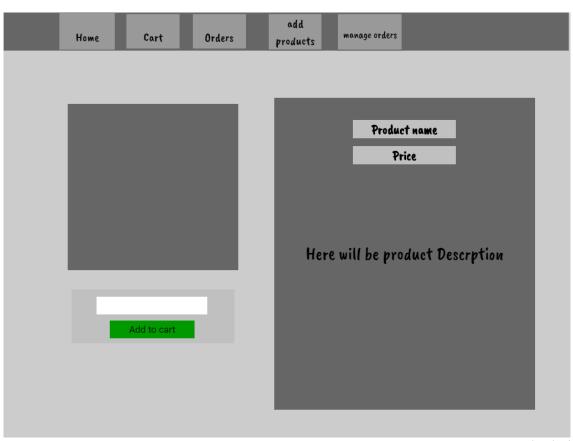
2LOGIN



3SIGNUP



4CART



5product details



6verify order



7 ORDERS



#### 8ADD PRODUCTS



9 MANAGE ORDERS

الفصل الثاني: التنفيذ

Architectural Pattern – نمط المشروع MVC – Model, View, Controller

View في المحالف Model في Model هي الداتا.

Wiew ما يرأه المستخدم.

Model

DataBase Operations

View

HTML files

Controller

Middleware

#### الكود - Code

#### **Controllers**

#### admin.controller.js

```
const productsModel = require("../models/products.model");
const ordersModel = require("../models/order.model");
const validationResult = require("express-
validator").validationResult;
exports.getAdd = (req, res, next) => {
    res.render("add-product", {
        validationErrors: req.flash("validationErrors"),
        isUser: true,
        isAdmin: true,
        productAdded: req.flash("added")[0],
        pageTitle: "Add Product"
    });
};
exports.postAdd = (req, res, next) => {
    if (validationResult(req).isEmpty()) {
        req.body.image = req.file.filename;
        productsModel
            .addNewProduct(req.body)
            .then(() => {
                req.flash("added", true);
                res.redirect("/admin/add");
            })
            .catch(err => {
                res.redirect("/error");
            });
    } else {
        req.flash("validationErrors",
validationResult(req).array());
        res.redirect("/admin/add");
};
exports.getOrders = (req, res, next) => {
    ordersModel
        .getAllOrders()
        .then(items => {
```

```
res.render("manage-orders", {
                pageTitle: "Manage Orders",
                isUser: true,
                isAdmin: true,
                items: items
            });
        })
        .catch(err => res.redirect("/error"));
};
exports.postOrders = (req, res, next) => {
    ordersModel
        .editOrder(req.body.orderId, req.body.status)
        .then(() => res.redirect("/admin/orders"))
        .catch(err => {
            res.redirect("/error");
        });
};
```

#### auth.controller.js

```
const authModel = require("../models/auth.model");
const validationResult = require("express-
validator").validationResult;
exports.getSignup = (req, res, next) => {
    res.render("signup", {
        authError: req.flash("authError")[0],
        validationErrors: req.flash("validationErrors"),
        isUser: false,
        isAdmin: false,
        pageTitle: "Signup"
    });
};
exports.postSignup = (req, res, next) => {
    if (validationResult(req).isEmpty()) {
        authModel
            .createNewUser(req.body.username, req.body.email,
req.body.password)
            .then(() => res.redirect("/login"))
            .catch(err => {
                req.flash("authError", err);
                res.redirect("/signup");
            });
    } else {
        req.flash("validationErrors",
validationResult(req).array());
        res.redirect("/signup");
};
exports.getLogin = (req, res, next) => {
    res.render("login", {
        authError: req.flash("authError")[0],
        validationErrors: req.flash("validationErrors"),
        isUser: false,
        isAdmin: false,
        pageTitle: "Login"
    });
};
exports.postLogin = (req, res, next) => {
    if (validationResult(reg).isEmpty()) {
```

```
authModel
            .login(req.body.email, req.body.password)
            .then(result => {
                req.session.userId = result.id;
                req.session.isAdmin = result.isAdmin;
                res.redirect("/");
            })
            .catch(err => {
                req.flash("authError", err);
                res.redirect("/login");
            });
    } else {
        req.flash("validationErrors",
validationResult(req).array());
        res.redirect("/login");
};
exports.logout = (req, res, next) => {
    req.session.destroy(() => {
        res.redirect("/");
    });
};
```

#### cart.controller.js

```
const cartModel = require("../models/cart.model");
const validationResult = require("express-
validator").validationResult;
exports.getCart = (req, res, next) => {
    cartModel
        .getItemsByUser(req.session.userId)
        .then(items => {
            res.render("cart", {
                items: items,
                isUser: true,
                isAdmin: req.session.isAdmin,
                pageTitle: "Cart"
            });
        })
        .catch(err => {
            res.redirect("/error");
        });
};
exports.postCart = (req, res, next) => {
    if (validationResult(req).isEmpty()) {
        cartModel
            .addNewItem({
                name: req.body.name,
                price: req.body.price,
                amount: req.body.amount,
                productId: req.body.productId,
                userId: req.session.userId,
                timestamp: Date.now()
            })
            .then(() => {
                res.redirect("/cart");
            })
            .catch(err => {
                res.redirect("/error");
            });
    } else {
        req.flash("validationErrors",
validationResult(req).array());
        res.redirect(req.body.redirectTo);
    }
};
exports.postSave = (req, res, next) => {
```

#### home.controller.js

```
const productsModel = require("../models/products.model");
exports.getHome = (req, res, next) => {
    let category = req.query.category;
   let validCategories = ["clothes", "phones", "computers"];
    let productsPromise;
    if (category && validCategories.includes(category))
        productsPromise =
productsModel.getProductsByCategory(category);
    else productsPromise = productsModel.getAllProducts();
    productsPromise
        .then(products => {
            res.render("index", {
                products: products,
                isUser: req.session.userId,
                isAdmin: req.session.isAdmin,
                validationError: req.flash("validationErrors")[0],
                pageTitle: "Home"
            });
        })
        .catch(err => {
            console.log(err);
        });
};
```

#### order.constroller.js

```
.catch(err => res.redirect("/error"));
};
exports.getOrder = (req, res, next) => {
    orderModel
        .getOrdersByUser(req.session.userId)
        .then(items => {
            res.render("orders", {
                pageTitle: "Orders",
                isUser: true,
                isAdmin: req.session.isAdmin,
                items: items
            });
        })
        .catch(err => res.redirect("/error"));
};
exports.postOrder = (req, res, next) => {
    if (validationResult(req).isEmpty())
        orderModel
            .addNewOrder(req.body)
            .then(() => res.redirect("/orders"))
            .catch(err => {
                res.redirect("/error");
            });
    else {
        req.flash("validationErrors",
validationResult(req).array());
        res.redirect("/verify-order?order=" + req.body.cartId);
};
exports.postCancel = (req, res, next) => {
    orderModel
        .cancelOrder(req.body.orderId)
        .then(() => res.redirect("/orders"))
        .catch(err => {
            res.redirect("/error");
        });
};
```

#### product.controller.js

```
const productsModel = require("../models/products.model");
exports.getProduct = (req, res, next) => {
    productsModel
        .getFirstProduct()
        .then(product => {
            res.render("product", {
                product: product,
                isUser: req.session.userId,
                isAdmin: req.session.isAdmin,
                pageTitle: "Product Details"
            });
        })
        .catch(err => res.redirect("/error"));
};
exports.getProductById = (req, res, next) => {
    let id = req.params.id;
    productsModel
        .getProductById(id)
        .then(product => {
            res.render("product", {
                product: product,
                isUser: req.session.userId,
                isAdmin: req.session.isAdmin,
                pageTitle: product.name
            });
        })
        .catch(err => res.redirect("/error"));
```

#### **Models**

## auth.model.js

```
const mongoose = require("mongoose");
const bcrypt = require("bcrypt");
const DB URL = "mongodb://localhost:27017/shop";
const userSchema = mongoose.Schema({
    username: String,
    email: String,
    password: String,
    isAdmin: {
        type: Boolean,
        default: false
});
const User = mongoose.model("user", userSchema);
exports.createNewUser = (username, email, password) => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return User.findOne({ email: email });
            })
            .then(user => {
                if (user) {
                    mongoose.disconnect();
                     reject("email is used");
                } else {
                     return bcrypt.hash(password, 10);
                }
            })
            .then(hashedPassword => {
                let user = new User({
                     username: username,
                     email: email,
                     password: hashedPassword
                });
                return user.save();
            })
            .then(() \Rightarrow \{
                mongoose.disconnect();
                resolve();
```

```
})
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.login = (email, password) => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => User.findOne({ email: email }))
            .then(user => {
                if (!user) {
                    mongoose.disconnect();
                    reject("there is no user matches this email");
                } else {
                    bcrypt.compare(password,
user.password).then(same => {
                        if (!same) {
                            mongoose.disconnect();
                             reject("password is incorrect");
                        } else {
                            mongoose.disconnect();
                             resolve({
                                 id: user.email,
                                 isAdmin: user.isAdmin
                             });
                    });
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
```

#### cart.model.js

```
const mongoose = require("mongoose");
const DB_URL = "mongodb://localhost:27017/shop";
const cartSchema = mongoose.Schema({
    name: String,
    price: Number,
    amount: Number,
    userId: String,
    productId: String,
    timestamp: Number
});
const CartItem = mongoose.model("cart", cartSchema);
exports.addNewItem = data => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                let item = new CartItem(data);
                return item.save();
            })
            .then(() => {
                mongoose.disconnect();
                resolve();
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.getItemsByUser = userId => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return CartItem.find(
                    { userId: userId },
                    {},
                    { sort: { timestamp: 1 } }
                );
```

```
.then(items => {
                mongoose.disconnect();
                resolve(items);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.editItem = (id, newData) => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => CartItem.updateOne({ _id: id }, newData))
            .then(items => {
                mongoose.disconnect();
                resolve(items);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.deleteItem = id => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => CartItem.findByIdAndDelete(id))
            .then(() => {
                mongoose.disconnect();
                resolve();
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.getItemById = id => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB URL)
```

#### order.model.js

```
const mongoose = require("mongoose");
const cartModel = require("./cart.model");
const DB_URL ='mongodb://localhost:27017/shop';
const orderSchema = mongoose.Schema({
   name: String,
   price: Number,
   amount: Number,
   userId: String,
   productId: String,
   timestamp: Number,
   address: String,
    status: {
        type: String,
        default: "pending"
   timestamp: Number
});
const Order = mongoose.model("order", orderSchema);
exports.addNewOrder = data => {
   return new Promise((resolve, reject) => {
        cartModel
            .deleteItem(data.cartId)
            .then(() => mongoose.connect(DB_URL))
            .then(() => {
                data.timestamp = Date.now();
                let order = new Order(data);
```

```
return order.save();
            })
            .then(() => {
                mongoose.disconnect();
                resolve();
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.getOrdersByUser = userId => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return Order.find(
                    { userId: userId },
                    {},
                    { sort: { timestamp: 1 } }
                );
            })
            .then(items => {
                mongoose.disconnect();
                resolve(items);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.cancelOrder = id => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => Order.findByIdAndDelete(id))
            .then(() => {
                mongoose.disconnect();
                resolve();
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
```

```
});
    });
};
exports.getAllOrders = () => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return Order.find({}, {}, { sort: { timestamp: 1 }
});
            })
            .then(items => {
                mongoose.disconnect();
                resolve(items);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.editOrder = (id, newStatus) => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return Order.updateOne({ _id: id }, { status:
newStatus });
            })
            .then(items => {
                mongoose.disconnect();
                resolve(items);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
```

### products.model.js

```
const mongoose = require("mongoose");
const DB_URL = "mongodb://localhost:27017/shop";
const productSchema = mongoose.Schema({
    name: String,
    image: String,
    price: Number,
    description: String,
    category: String
});
const Product = mongoose.model("product", productSchema);
exports.addNewProduct = data => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                let newProduct = new Product(data);
                return newProduct.save();
            })
            .then(products => {
                mongoose.disconnect();
                resolve(products);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.getAllProducts = () => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() \Rightarrow \{
                return Product.find({});
            })
            .then(products => {
                mongoose.disconnect();
                resolve(products);
            })
            .catch(err => {
```

```
mongoose.disconnect();
                reject(err);
            });
    });
};
exports.getProductsByCategory = category => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return Product.find({ category: category });
            })
            .then(products => {
                mongoose.disconnect();
                resolve(products);
            })
            .catch(err => {
                mongoose.disconnect(reject(err));
            });
    });
};
exports.getProductById = id => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB_URL)
            .then(() => {
                return Product.findById(id);
            })
            .then(product => {
                mongoose.disconnect();
                resolve(product);
            })
            .catch(err => {
                mongoose.disconnect();
                reject(err);
            });
    });
};
exports.getFirstProduct = () => {
    return new Promise((resolve, reject) => {
        mongoose
            .connect(DB URL)
            .then(() => {
                return Product.findOne({});
```

#### **Views**

**Parts** 

## footer.ejs

#### header.ejs

#### navbar.ejs

```
<nav class="navbar navbar-expand-md navbar-dark bg-dark">
   <div class="container">
      <button class="navbar-toggler" type="button" data-</pre>
toggle="collapse" data-target="#navbarSupportedContent"
         aria-controls="navbarSupportedContent" aria-
expanded="false" aria-label="Toggle navigation">
         <span class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse"</pre>
id="navbarSupportedContent">
         'active' : '' %>">
               <a class="nav-link" href="/">Home</a>
            <% if(isUser) { %>
               'active' : '' %><u>"</u>>
                  <a class="nav-link" href="/cart">Cart</a>
               'active' : '' %>">
                  <a class="nav-link"</pre>
href="/orders">Orders</a>
               <% } else { %>
                  'Login' ? 'active' : '' %>">
                     <a class="nav-link"
href="/login">Login</a>
                  'Signup' ? 'active' : '' %>">
                     <a class="nav-link"</pre>
href="/signup">Signup</a>
                   <% } %>
                      <% if(isAdmin) { %>
                         === 'Add Product' ? 'active' : '' %>">
                           <a class="nav-link"</pre>
href="/admin/add">Add Product</a>
```

#### add-product.ejs

```
<%- include('parts/header')%>
<%- include('parts/navbar')%>
<div class="container text-center">
   <% if(productAdded) { %>
    Product added successfully
   <% } %>
    <h3>Add Product</h3>
    <form action="/admin/add" method="POST" enctype="multipart/form-</pre>
data">
       <input type="text" class="form-control" name="name"</pre>
placeholder="Name">
       <% let nameError = validationErrors.find(err => err.param
=== 'name') %>
       <% if (nameError) { %>
           <%= nameError.msg %>
           <% } %>
       <input type="number" class="form-control" name="price"</pre>
placeholder="Price">
       <% let priceError = validationErrors.find(err => err.param
=== 'price') %>
```

```
<% if (priceError) { %>
           <%= priceError.msg %>
          <% } %>
       <textarea type="password" class="form-control"</pre>
name="description" placeholder="Description"></textarea>
       <% let descriptionError = validationErrors.find(err =>
err.param === 'description') %>
       <% if (descriptionError) { %>
           <%= descriptionError.msg %>
           <% } %>
       <select type="password" class="form-control"</pre>
name="category">
           <option value="" selected>Choose a category</option>
          <option value="clothes">Clothes</option>
           <option value="phones">Phones
           <option value="computers">Computers</option>
       </select>
       <% let categoryError = validationErrors.find(err =>
err.param === 'category') %>
       <% if (categoryError) { %>
           <%= categoryError.msg %>
          <% } %>
       <input type="file" class="form-control" name="image"</pre>
placeholder="Image">
       <% let imageError = validationErrors.find(err => err.param
=== 'image') %>
       <% if (imageError) { %>
           <%= imageError.msg %>
           <% } %>
       <input type="submit" value="Add Product" class="btn btn-</pre>
primary">
   </form>
</div>
<%- include('parts/footer')%>
```

```
<%- include('parts/header') %>
<%- include('parts/navbar') %>
<div class="container">
   <% if(items.length === 0) { %>
      There is no items
   <% } else { %>
      <thead>
             no
             Product name
             Price
             Amount
             Total
             </thead>
         <% for (let i = 0; i < items.length; i++) { %>
                 <%= i+1 %> 
                    <a href="/product/<%=
items[i].productId %>"><%= items[i].name %></a> 
                    <%= items[i].price %> $ 
                   <form method="POST">
                       <input type="text" name="amount"
 < %= items[i].price *
items[i].amount %> $ 
                          <input type="hidden" name="cartId"</pre>
value="<%= items[i]._id %>">
                          <input type="submit" class="btn btn-</pre>
success" value="Save" formaction="/cart/save">
                          <a class="btn btn-primary"</pre>
href="/verify-order?order=<%= items[i]. id %>"> Order </a>
                          <input type="submit" class="btn btn-</pre>
danger" value="Delete" formaction="/cart/delete">
                      </form>
                <% } %>
```

```
<% } %>
</div>
<%- include('parts/footer') %>
```

error.ejs

index.ejs

```
<%- include('parts/header')%>
<%- include('parts/navbar')%>
<div class="container">
    <form class="filter" action="/" method="GET">
       <div class="row">
           <div class="col col-md-10">
               <select name="category" class="form-control">
                   <option value="all">All</option>
                   <option value="clothes">Clothes</option>
                   <option value="phones">Phones</option>
                   <option value="computers">Computers</option>
               </select>
           </div>
           <div class="col col-md-2">
               <input type="submit" class="btn btn-primary"</pre>
value="Filter">
           </div>
       </div>
   </form>
   <% if(validationError) { %>
       <%= validationError.msg%>
       <% } %>
    <% if(products.length === 0) { %>
```

```
<div class="alert alert-danger">
        there is no products
    </div>
    <% } else { %>
    <div class="row">
        <% for(let product of products) { %>
             <div class="col col-12 col-md-6 col-lg-4 col-xl-3">
                 <div class="card" style="width: 100%;">
                     <img src="/<%= product.image%>" class="card-img-
top" style="height: 200px;">
                     <div class="card-body">
                         <h5 class="card-title">
                              <a href="/product/<%= product._id%>"><%=</pre>
product.name%></a>
                                  Price: <%= product.price%> $
                         </h5>
                         <form action="/cart" method="POST"</pre>
class="add-to-cart-form">
                              <input type="number" name="amount"</pre>
class="form-control">
                             <input type="hidden" name="name"</pre>
value="<%= product.name%>">
                              <input type="hidden" name="price"</pre>
value="<%= product.price%>">
                             <input type="hidden" name="productId"</pre>
value="<%= product._id%>">
                              <input type="hidden" name="redirectTo"</pre>
value="/">
                              <input type="submit" value="Add to cart"</pre>
class="btn btn-primary">
                         </form>
                     </div>
                 </div>
            </div>
        <% } %>
    </div>
    <% } %>
</div>
<%- include('parts/footer')%>
```

# login.ejs

```
<%- include('parts/header')%>
<%- include('parts/navbar')%>
<div class="container text-center">
   <h3>Login</h3>
   <form action="/login" method="POST">
       <input type="email" class="form-control" name="email"</pre>
placeholder="E-mail">
       <% let emailError = validationErrors.find(err => err.param
=== 'email') %>
       <% if (emailError) { %>
           <%= emailError.msg %>
           <% } %>
       <input type="password" class="form-control" name="password"</pre>
placeholder="Password">
       <% let passwordError = validationErrors.find(err =>
err.param === 'password') %>
       <% if (passwordError) { %>
          <%= passwordError.msg %>
           <% } %>
       <input type="submit" value="Login" class="btn btn-primary">
   </form>
   <% if(authError) { %>
       <%= authError%>
       <% } %>
   <br>
   <div>
       Don't have account ? <a href="/signup">Create Account</a>
   </div>
</div>
<%- include('parts/footer')%>
```

### manage-orders.ejs

```
<%- include('parts/header') %>
<%- include('parts/navbar') %>
<div class="container">
   <% if(items.length === 0) { %>
      There is no items
   <% } else { %>
      <thead>
             no
             Email
             Product name
             Price
             Amount
             Total
             Address
             Status
             </thead>
          <% for (let i = 0; i < items.length; i++) { %>
                  <%= i+1 %> 
                    <%= items[i].userId %>
                     <a href="/product/<%=
items[i].productId %>"><%= items[i].name %></a> 
                     <%= items[i].price %> $ 
                     <%= items[i].amount %> 
                     <%= items[i].price * items[i].amount %>
$ 
                     <%= items[i].address %> 
                     <%= items[i].status %> 
                       <% if (items[i].status === 'pending') {</pre>
%>
                       <form style="display: inline-block"</pre>
method="POST" action="/admin/orders">
                           <input type="hidden" name="orderId"</pre>
value="<%= items[i]. id %>">
                           <input type="hidden" name="status"</pre>
value="sent">
                           <input type="submit" class="btn btn-</pre>
primary" value="Send">
```

```
</form>
                            <% } %>
                            <% if (items[i].status === 'pending' ||</pre>
items[i].status === 'sent') { %>
                            <form style="display: inline-block"</pre>
method="POST" action="/admin/orders">
                                <input type="hidden" name="orderId"</pre>
value="<%= items[i]._id %>">
                                <input type="hidden" name="status"</pre>
value="complete">
                                <input type="submit" class="btn btn-</pre>
success" value="Complete">
                            </form>
                            <% } %>
                        <% } %>
            <% } %>
</div>
<%- include('parts/footer') %>
```

# not-found.ejs

# not-admin.ejs

# orders.ejs

```
<%- include('parts/header') %>
<%- include('parts/navbar') %>
<div class="container">
   <% if(items.length === 0) { %>
     There is no items
   <% } else { %>
     no
           Product name
           Price
           Amount
           Total
           Address
           Status
           </thead>
        <% for (let i = 0; i < items.length; i++) { %>
                  <%= i+1 %> 
                  <a href="/product/<%=
items[i].productId %>"><%= items[i].name %></a> 
                  <%= items[i].price %> $ 
                 <form method="POST">
                     <%= items[i].amount %> 
                    ,price *
items[i].amount %> $ 
                     <%= items[i].address %> 
                     <%= items[i].status %>
```

#### product.ejs

```
<%- include('parts/header')%>
<%- include('parts/navbar')%>
<div class="container">
    <% if(!product) { %>
    <div class="alert alert-danger">
        there is no product matches this id
    </div>
    <% } else {%>
    <div class="row">
        <div class="col col-12 col-md-6">
            <div class="card" style="width: 100%;">
                <img src="/<%= product.image%>" class="card-img-top"
style="max-height: 400px">
                <div class="card-body">
                    <form action="/cart" method="POST" class="add-</pre>
to-cart-form">
                        <input type="number" name="amount"</pre>
class="form-control">
                        <input type="submit" value="Add to cart"</pre>
class="btn btn-primary">
                    </form>
                </div>
            </div>
        </div>
        <div class="col col-12 col-md-6 product-detail">
            <h3><%= product.name%></h3>
            <h5>Price: <%= product.price%> $</h5>
            <%= product.description%>
```

## signup.ejs

```
<%- include('parts/header')%>
<%- include('parts/navbar')%>
<div class="container text-center">
   <h3>Create Account</h3>
   <form action="/signup" method="POST">
       <input type="text" class="form-control" name="username"</pre>
placeholder="Username">
       <% let usernameError = validationErrors.find(err =>
err.param === 'username') %>
       <% if (usernameError) { %>
           <%= usernameError.msg %>
           <% } %>
       <input type="email" class="form-control" name="email"</pre>
placeholder="E-mail">
       <% let emailError = validationErrors.find(err => err.param
=== 'email') %>
       <% if (emailError) { %>
           <%= emailError.msg %>
           <% } %>
       <input type="password" class="form-control" name="password"</pre>
placeholder="Password">
       <% let passwordError = validationErrors.find(err =>
err.param === 'password') %>
       <% if (passwordError) { %>
           <%= passwordError.msg %>
           <% } %>
       <input type="password" class="form-control"</pre>
name="confirmPassword" placeholder="Confirm Password">
       <% let passwordConfirmError = validationErrors.find(err =>
err.param === 'passwordConfirm') %>
       <% if (passwordConfirmError) { %>
```

```
<%= passwordConfirmError.msg %>
          <% } %>
       <input type="submit" value="Create Account" class="btn btn-</pre>
primary">
   </form>
   <% if(authError) { %>
       <%= authError%>
   <% } %>
   <br>
       Already have account ? <a href="/login">Login</a>
   </div>
<%- include('parts/footer')%>
```

# verify-order.ejs

```
<%- include('parts/header')%>
<%- include('parts/navbar')%>
<div class="container text-center">
    <h3>Verify Order</h3>
    <% if(validationError) { %>
    <%= validationError.msg %>
    <% } %>
    <form action="/orders" method="POST">
        <input type="hidden" name="cartId" value="<%= cart._id%>">
        <input type="hidden" name="name" value="<%= cart.name%>">
        <input type="hidden" name="price" value="<%= cart.price%>">
        <input type="hidden" name="amount" value="<%=</pre>
cart.amount%>">
        <input type="hidden" name="productId" value="<%=</pre>
cart.productId%>">
        <input type="hidden" name="userId" value="<%=</pre>
cart.userId%>">
        <input type="text" name="address" placeholder="Enter the</pre>
Address" class="form-control">
        <input type="submit" value="Verify" class="btn btn-primary">
    </form>
</div>
<%- include('parts/footer')%>
```

#### **Routes**

Guards

# admin.guard.js

```
module.exports = (req, res, next) => {
    if (req.session.isAdmin) next();
    else res.redirect("/not-admin");
};
```

# auth.guard.js

```
exports.isAuth = (req, res, next) => {
    if (req.session.userId) next();
    else res.redirect("/login");
};

exports.notAuth = (req, res, next) => {
    if (!req.session.userId) next();
    else res.redirect("/");
};
```

# admin.route.js

```
filename: (req, file, cb) => {
                cb(null, Date.now() + "-" + file.originalname);
            }
        })
    }).single("image"),
    check("name")
        .not()
        .isEmpty()
        .withMessage("name is required"),
    check("price")
        .not()
        .isEmpty()
        .withMessage("price is required")
        .isFloat({ min: 0.0000000009 })
        .withMessage("price must be greater than 0"),
    check("description")
        .not()
        .isEmpty()
        .withMessage("description is required"),
    check("category")
        .not()
        .isEmpty()
        .withMessage("category is required"),
    check("image").custom((value, { req }) => {
        if (req.file) return true;
        else throw "image is required";
    }),
    adminController.postAdd
);
router.get("/orders", adminGuard, adminController.getOrders);
router.post(
    "/orders",
    adminGuard,
    bodyParser.urlencoded({ extended: true }),
    adminController.postOrders
);
module.exports = router;
```

# auth.route.js

```
const router = require("express").Router();
const bodyParser = require("body-parser");
const check = require("express-validator").check;
const authGuard = require("./guards/auth.guard");
const authController = require("../controllers/auth.controller");
router.get("/signup", authGuard.notAuth, authController.getSignup);
router.post(
    "/signup",
   authGuard.notAuth,
    bodyParser.urlencoded({ extended: true }),
    check("username")
        .not()
        .isEmpty()
        .withMessage("username is required"),
    check("email")
        .not()
        .isEmpty()
        .withMessage("email is required")
        .isEmail()
        .withMessage("invalid format"),
    check("password")
        .not()
        .isEmpty()
        .withMessage("password is required")
        .isLength({ min: 6 })
        .withMessage("password must be at least 6 charachters"),
    check("confirmPassword").custom((value, { req }) => {
        if (value === req.body.password) return true;
        else throw "passwords dont equal";
    authController.postSignup
);
router.get("/login", authGuard.notAuth, authController.getLogin);
router.post(
    "/login",
    authGuard.notAuth,
   bodyParser.urlencoded({ extended: true }),
    check("email")
        .not()
```

```
.isEmpty()
.withMessage("email is required")
.isEmail()
.withMessage("invalid format"),
check("password")
.not()
.isEmpty()
.withMessage("password is required")
.isLength({ min: 6 })
.withMessage("password must be at least 6 charachters"),
authController.postLogin
);
router.all("/logout", authGuard.isAuth, authController.logout);
module.exports = router;
```

#### cart.route.js

```
const router = require("express").Router();
const bodyParser = require("body-parser");
const check = require("express-validator").check;
const authGaurd = require("./guards/auth.guard");
const cartController = require("../controllers/cart.controller");
router.get("/", authGaurd.isAuth, cartController.getCart);
router.post(
    authGaurd.isAuth,
    bodyParser.urlencoded({ extended: true }),
    check("amount")
        .not()
        .isEmpty()
        .withMessage("amount is required")
        .isInt({ min: 1 })
        .withMessage("amount must be grater then 0"),
    cartController.postCart
);
router.post(
    "/save",
    authGaurd.isAuth,
    bodyParser.urlencoded({ extended: true }),
    check("amount")
        .not()
        .isEmpty()
        .withMessage("amount is required")
        .isInt({ min: 1 })
        .withMessage("amount must be grater then 0"),
    cartController.postSave
);
router.post(
    "/delete",
    authGaurd.isAuth,
    bodyParser.urlencoded({ extended: true }),
    cartController.postDelete
);
module.exports = router;
```

#### home.route.js

```
const router = require("express").Router();

const homeController = require("../controllers/home.controller");

router.get("/", homeController.getHome);

module.exports = router;
```

### home.routes.js

```
const router = require('express').Router();

const homeController = require('../controllers/home.controller');

router.get('/', homeController.getHome);

module.exports = router;
```

# orders.route.js

```
const router = require("express").Router();
const bodyParser = require("body-parser");
const check = require("express-validator").check;
const orderController = require("../controllers/order.constroller");
const authGuard = require("./guards/auth.guard");
router.get("/verify-order", authGuard.isAuth,
orderController.getOrderVerify);
router.get("/orders", authGuard.isAuth, orderController.getOrder);
router.post(
    "/orders",
    authGuard.isAuth,
    bodyParser.urlencoded({ extended: true }),
    check("address")
        .not()
        .isEmpty()
        .withMessage("address is required"),
    orderController.postOrder
```

```
router.post(
    "/orders/cancel",
    authGuard.isAuth,
    bodyParser.urlencoded({ extended: true }),
    orderController.postCancel
);
module.exports = router;
```

# product.route.js

```
const router = require("express").Router();
const productController =
require("../controllers/product.controller");
router.get("/", productController.getProduct);
router.get("/:id", productController.getProductById);
module.exports = router;
```

# app.js

هذا أول ملف يشتغل فالنظام وهنا يوجد لُب المشروع والملفات الثابتة والقالب المستخدم مثل EJS والمنفذ للسيرفر وهو 8080وحالات الخطأ

```
const express = require("express");
const path = require("path");
const session = require("express-session");
const SessionStore = require("connect-mongodb-session")(session);
const flash = require("connect-flash");
const homeRouter = require("./routes/home.route");
const productRouter = require("./routes/product.route");
const authRouter = require("./routes/auth.route");
const cartRouter = require("./routes/cart.route");
const adminRouter = require("./routes/admin.route");
const orderRouter = require("./routes/orders.route");
const app = express();
app.use(express.static(path.join(__dirname, "images")));
app.use(flash());
const STORE = new SessionStore({
    uri: "mongodb://localhost:27017/shop",
    collection: "sessions"
});
app.use(
    session({
        secret: " ......",
        saveUninitialized: false.
        store: STORE
    })
);
app.set("view engine", "ejs");
app.set("views", "views");
app.use("/", homeRouter);
app.use("/", authRouter);
app.use("/product", productRouter);
app.use("/cart", cartRouter);
app.use("/admin", adminRouter);
app.use("/", orderRouter);
```

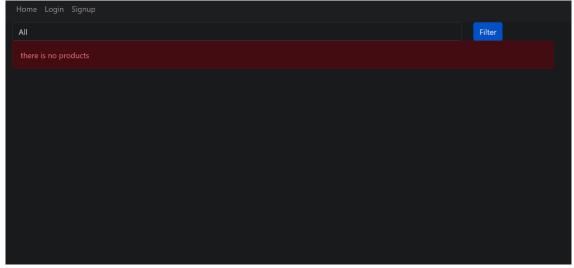
```
app.get("/error", (req, res, next) => {
    res.status(500);
    res.render("error.ejs", {
        isUser: req.session.userId,
        isAdmin: req.session.isAdmin,
        pageTitle: "Error"
    });
});
app.get("/not-admin", (req, res, next) => {
    res.status(403);
    res.render("not-admin", {
        isUser: req.session.userId,
        isAdmin: false,
        pageTitle: "Not Allowed"
    });
});
app.use((req, res, next) => {
    res.status(404);
    res.render("not-found", {
        isUser: req.session.userId,
        isAdmin: req.session.isAdmin,
        pageTitle: "Page Not Found"
    });
});
app.listen(8080, () => {
    console.log("server listen on port 8080");
```

# package.json

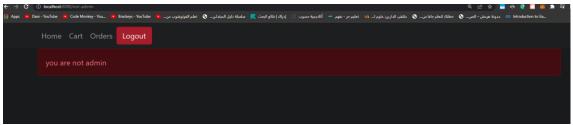
# هنا معلومات المشروع المؤلف، وأول ملف يشتغل app.js بالتطبيق والمكاتب المستخدمة

```
"name": "shop",
"version": "1.0.0",
"description": "Graduate project",
"main": "app.js",
"scripts": {
 "start": "nodemon app.js"
},
"author": "ayman Al-awfi",
"license": "ISC",
"dependencies": {
 "bcrypt": "^5.0.1",
 "body-parser": "^1.19.2",
  "connect-flash": "^0.1.1",
 "connect-mongodb-session": "^3.1.1",
  "ejs": "^3.1.6",
  "express": "^4.17.3",
  "express-session": "^1.17.2",
  "express-validator": "^6.14.0",
  "mongodb": "^4.5.0",
  "mongoose": "^6.3.1",
  "multer": "^1.4.4"
},
"devDependencies": {
  "nodemon": "^2.0.15"
```

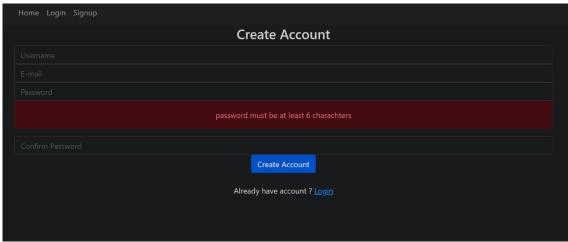
# الفصل الثالث: الاختبار والتقييم الإختبار



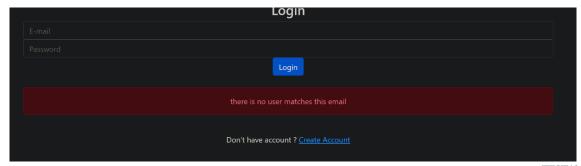
10TEST



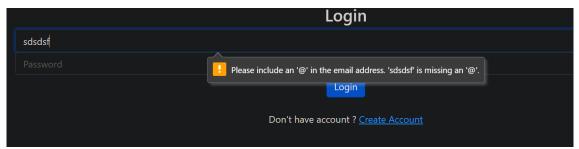
TEST11



TEST12



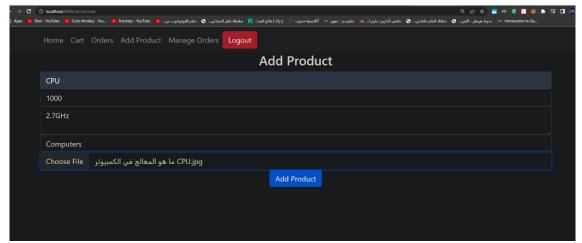
TEST13



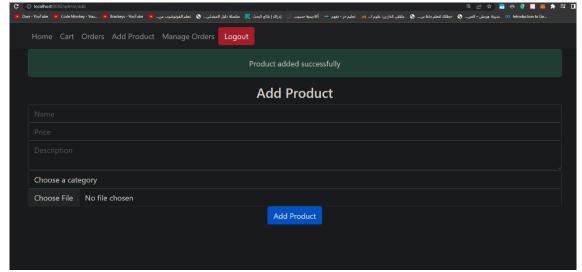
TEST14



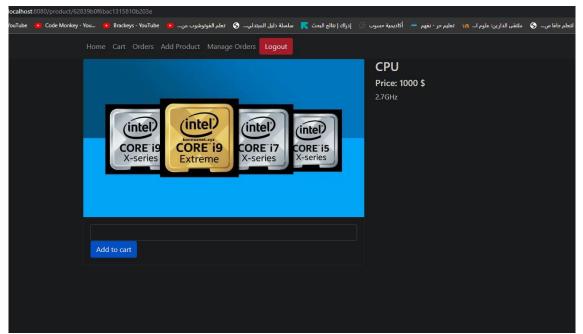
TEST15



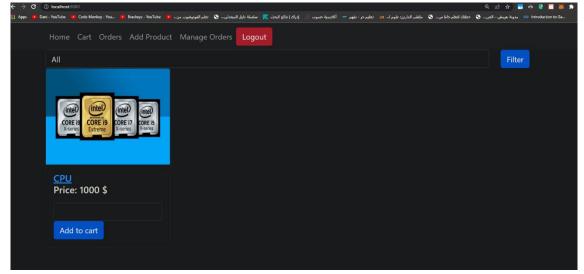
*TEST***16** 



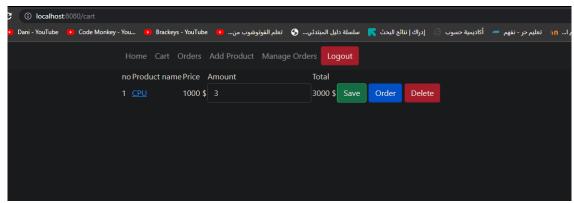
*TEST17* 



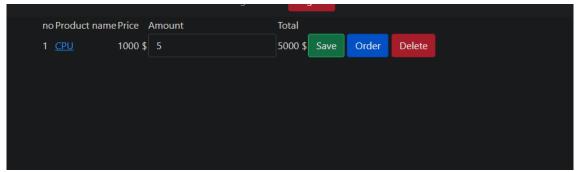
18 TEST



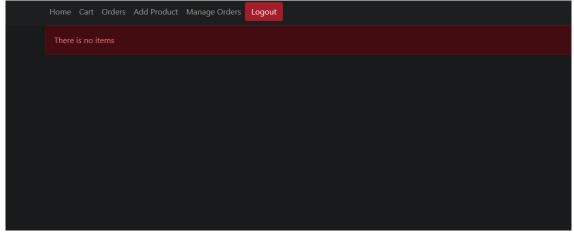
*TEST***19** 



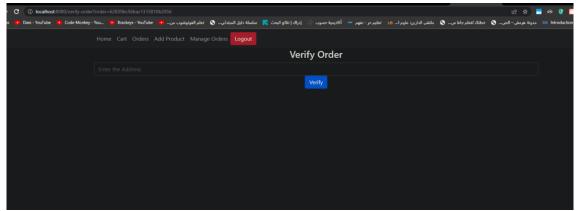
20 TEST



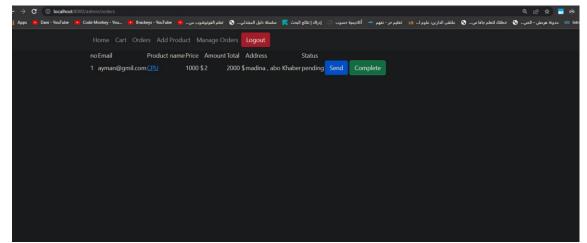
TEST21



TEST22



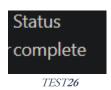
*TEST23* 



TEST24



56



# الخاتمة

في خاتمة هذا البحث، الحمد لله رب العالمين الذي وفقنا لختام هذا البحث الذي تحدثنا فيه عن مشروع (متجر إلكتروني)

- الملاحق: pencil project
- / https://app.creately.com/ •