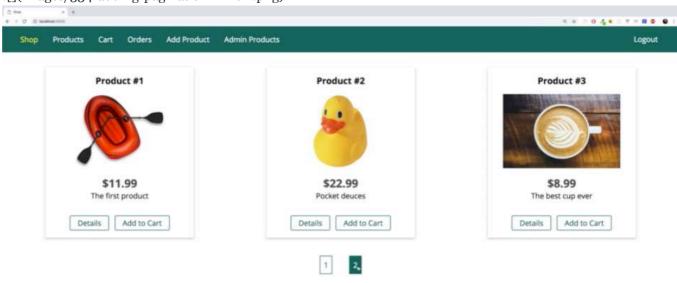
21. Adding Pagination

* Chapter 334: Adding Pagination Links

- 1. update
- ./views/shop/index.ejs
- ./public/css/main.css



```
1 <!--./views/shop/index.ejs-->
2
3 <%- include('../includes/head.ejs') %>
       <link rel="stylesheet" href="/css/product.css">
4
5 </head>
6
7 <body>
       <%- include('../includes/navigation.ejs') %>
8
9
10
       <main>
           <% if (prods.length > 0) { %>
11
               <div class="grid">
12
13
                   <% for (let product of prods) { %>
14
                       <article class="card product-item">
15
                           <header class="card header">
16
                               <h1 class="product__title"><%= product.title %></h1>
17
                           </header>
                           <div class="card__image">
18
                               <img src="/<%= product.imageUrl %>"
19
```

```
20
                          alt="<%= product.title %>">
21
                          </div>
22
                          <div class="card__content">
23
                              <h2 class="product__price">$<%= product.price %></h2>
24
                              <%= product.description %>
25
                          </div>
26
                          <div class="card__actions">
27
                              <a href="/products/<%= product._id %>" class="btn">Details</a>
28
                              <% if (isAuthenticated) { %>
                                <%- include('../includes/add-to-cart.ejs', {product:</pre>
29
   product}) %>
30
                         <% } %>
31
                          </div>
                      </article>
32
33
                  <% } %>
              </div>
34
35
              <section class="pagination">
36
                  <a href="/?page=1">1</a>
37
                  <a href="/?page=2">2</a>
38
              </section>
39
          <% } else { %>
40
             <h1>No Products Found!</h1>
41
          <% } %>
42
      </main>
43 <%- include('../includes/end.ejs') %>
1 /*./public/css/main.css*/
3 @import url('https://fonts.googleapis.com/css?family=Open+Sans:400,700');
4
5 * {
6 box-sizing: border-box;
7 }
8
9 body {
    padding: 0;
10
11
    margin: 0;
    font-family: 'Open Sans', sans-serif;
12
13 }
14
15 main {
    padding: 1rem;
    margin: auto;
17
18 }
19
20 form {
21
    display: inline;
22 }
23
24 .centered {
25
    text-align: center;
26 }
27
28 .image {
29
    height: 20rem;
30 }
31
```

```
32 .image img {
33
     height: 100%;
34 }
35
36 .main-header {
37
    width: 100%;
38
   height: 3.5rem;
39
   background-color: #00695c;
     padding: 0 1.5rem;
40
    display: flex;
41
42
     align-items: center;
43 }
44
45 .main-header__nav {
   height: 100%;
46
    width: 100%;
47
48
   display: none;
49
    align-items: center;
50
    justify-content: space-between;
51 }
52
53 .main-header__item-list {
54
    list-style: none;
55
    margin: 0;
56
     padding: 0;
57
     display: flex;
58 }
59
60 .main-header__item {
61
     margin: 0 1rem;
62
     padding: 0;
63 }
64
65 .main-header__item a,
66 .main-header__item button {
67
    font: inherit;
68
   background: transparent;
69
    border: none;
70
    text-decoration: none;
71
    color: white;
72
    cursor: pointer;
73 }
74
75 .main-header__item a:hover,
76 .main-header__item a:active,
77 .main-header__item a.active,
78 .main-header__item button:hover,
79 .main-header__item button:active {
80
    color: #ffeb3b;
81 }
82
83 .mobile-nav {
   width: 30rem;
84
85
   height: 100vh;
86
   max-width: 90%;
87
     position: fixed;
```

```
88
      left: 0;
 89
      top: 0;
 90
      background: white;
 91
      z-index: 10;
 92
      padding: 2rem 1rem 1rem 2rem;
 93
      transform: translateX(-100%);
 94
      transition: transform 0.3s ease-out;
 95 }
 96
 97 .mobile-nav.open {
      transform: translateX(0);
 99 }
100
101 .mobile-nav__item-list {
102
      list-style: none;
103
      display: flex;
104
      flex-direction: column;
105
      margin: 0;
106
      padding: 0;
107 }
108
109 .mobile-nav__item {
110
      margin: 1rem;
111
      padding: 0;
112 }
113
114 .mobile-nav__item a,
115 .mobile-nav__item button {
116
      font: inherit;
117
      text-decoration: none;
118
      color: black;
119
      font-size: 1.5rem;
120
      padding: 0.5rem 2rem;
121
      background: transparent;
122
      border: none;
123
      cursor: pointer;
124 }
125
126 .mobile-nav__item a:active,
127 .mobile-nav__item a:hover,
128 .mobile-nav__item a.active,
129 .mobile-nav__item button:hover,
130 .mobile-nav__item button:active {
      background: #00695c;
131
132
      color: white;
133
      border-radius: 3px;
134 }
135
136 #side-menu-toggle {
      border: 1px solid white;
138
      font: inherit;
139
      padding: 0.5rem;
140
      display: block;
141
      background: transparent;
142
      color: white;
143
      cursor: pointer;
```

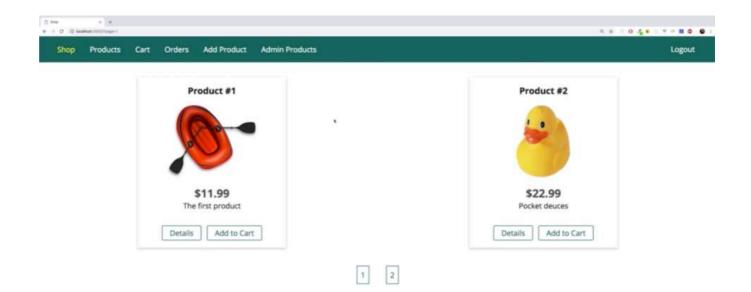
```
144 }
145
146 #side-menu-toggle:focus {
147
      outline: none;
148 }
149
150 #side-menu-toggle:active,
151 #side-menu-toggle:hover {
152
      color: #ffeb3b;
153
      border-color: #ffeb3b;
154 }
155
156 .backdrop {
157
      position: fixed;
158
      top: 0;
159
      left: 0;
160
      width: 100%;
161
      height: 100vh;
      background: rgba(0, 0, 0, 0.5);
162
163
      z-index: 5;
164
      display: none;
165 }
166
167 .grid {
168
      display: flex;
169
      flex-wrap: wrap;
170
      justify-content: space-around;
171
      align-items: stretch;
172 }
173
174 .card {
      box-shadow: 0 2px 8px rgba(0, 0, 0, 0.26);
176 }
177
178 .card_header,
179 .card__content {
      padding: 1rem;
180
181 }
182
183 .card_header h1,
184 .card__content h1,
185 .card__content h2,
186 .card__content p {
187
      margin: 0;
188 }
189
190 .card__image {
191
      width: 100%;
192 }
193
194 .card__image img {
      width: 100%;
195
196 }
197
198 .card__actions {
199
      padding: 1rem;
```

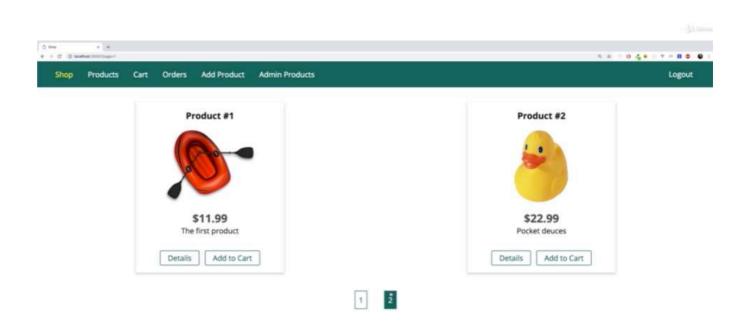
```
200
     text-align: center;
201 }
202
203 .card__actions button,
204 .card__actions a {
205
      margin: 0 0.25rem;
206 }
207
208 .btn {
209
      display: inline-block;
210
      padding: 0.25rem 1rem;
211
      text-decoration: none;
212
      font: inherit;
213
      border: 1px solid #00695c;
214
      color: #00695c;
215
      background: white;
216
      border-radius: 3px;
217
      cursor: pointer;
218 }
219
220 .btn:hover,
221 .btn:active {
222
      background-color: #00695c;
223
      color: white;
224 }
225
226 .btn.danger {
227
      color: red:
228
      border-color: red;
229 }
230
231 .btn.danger:hover,
232 .btn.danger:active {
233
      background: red;
234
      color: white;
235 }
236
237 .user-message {
238
     margin: auto;
239
     width: 90%;
240
      border: 1px solid #4771fa;
241
      padding: 0.5rem;
242
      border-radius: 3px;
243
      background: #b9c9ff;
244
      text-align: center;
245 }
246
247 .user-message--error {
248
      border-color: red;
249
      background: rgb(255, 176, 176);
250
      color: red;
251 }
252
253 .pagination {
254
     margin-top: 2rem;
255
      text-align: center
```

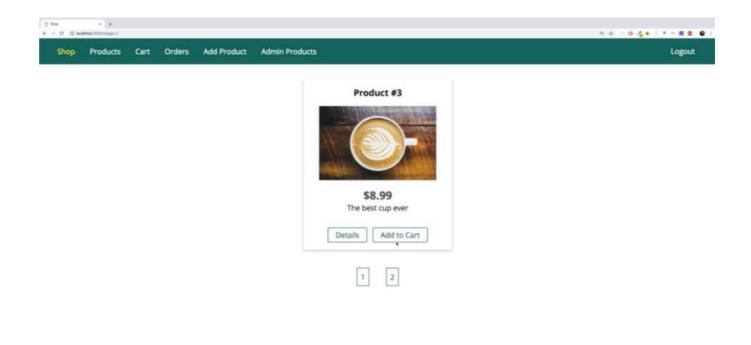
```
256 }
257
258 .pagination a {
259
      text-decoration: none;
260
      color: #00695c;
261
      padding: 0.5rem;
262
      border: 1px solid #00695c;
263
      margin: 0 1rem;
264 }
265
266 .pagination a:hover,
267 .pagination a:active {
      background: #00695c;
269
      color: white;
270 }
271
272 @media (min-width: 768px) {
      .main-header__nav {
273
274
        display: flex;
275
276
277
      #side-menu-toggle {
278
        display: none;
279
280
281
      .user-message {
282
        width: 30rem;
283
284 }
285
```

* Chapter 335: Retrieving A Chunk Of Data

- 1. update
- ./controllers/shop.js
-
-
-









No Products Found!

- if i type 'page3' in the end of the URL, 'No Products Found!' we would not find any products because i have no items for this page. but page 1, 2 is fine.

```
1 //./controllers/shop.js
2
3 const fs = require('fs');
4 const path = require('path');
5
6 const PDFDocument= require('pdfkit')
7
8 const Product = require('../models/product');
9 const Order = require('../models/order');
```

```
10
11 const ITEMS PER PAGE = 2
12
13 exports.getProducts = (req, res, next) => {
     Product.find()
14
       .then(products => {
15
16
      console.log(products);
17
         res.render('shop/product-list', {
18
           prods: products,
          pageTitle: 'All Products',
19
20
           path: '/products'
21
      });
22
       })
23
      .catch(err => {
24
      const error = new Error(err);
25
      error.httpStatusCode = 500;
26
      return next(error);
27
       });
28 };
29
30 exports.getProduct = (reg, res, next) => {
31
     const prodId = req.params.productId;
32
     Product.findById(prodId)
33
       .then(product => {
        res.render('shop/product-detail', {
34
35
           product: product,
36
           pageTitle: product.title,
           path: '/products'
37
38
       });
39
      })
       .catch(err => {
40
41
      const error = new Error(err);
       error.httpStatusCode = 500;
42
43
      return next(error);
       });
44
45 };
46
47 exports.getIndex = (req, res, next) => {
48
    /**request
49
     * and we can get guery parameters on the 'query' object
     * provided by express.js
51
     * and i can access page
     * because i named that query parameter 'page' in the URL
52
53
54
     const page = req.query.page
55
     Product.find()
56
     /**there is 'skip()' function
57
58
     * we can skip x amount of results
59
     * 'page - 1' is the previous page number
60
61
     * '(page - 1) * ITEMS PER PAGE' means that
62
     * if i'm on page 2,
     * i would skip the first page,
63
     * so the first one times ITEMS PER PAGE items
64
     * so result is that
65
```

```
66
       * i would skip the first one * 2
 67
       * so the first 2 items
 68
 69
        .skip((page - 1) * ITEMS_PER_PAGE)
 70
        /**'limit()' method limits the amount of data we fetch to the number we specify
 71
       * and i can pass 'ITEMS_PER_PAGE'
 72
       * because that is my item limit per page.
 73
       */
 74
        .limit(ITEMS_PER_PAGE)
 75
        .then(products => {
 76
         res.render('shop/index', {
 77
            prods: products,
            pageTitle: 'Shop',
 78
 79
            path: '/'
 80
        });
        })
 81
 82
        .catch(err => {
 83
       const error = new Error(err);
        error.httpStatusCode = 500;
 84
 85
         return next(error);
 86
        });
 87 };
 88
 89 exports.getCart = (req, res, next) => {
 90
      req.user
 91
        .populate('cart.items.productId')
 92
        .execPopulate()
        .then(user => {
 93
 94
         const products = user.cart.items;
 95
          res.render('shop/cart', {
 96
            path: '/cart',
 97
            pageTitle: 'Your Cart',
 98
            products: products
 99
       });
        })
100
        .catch(err => {
101
102
        const error = new Error(err);
103
        error.httpStatusCode = 500;
104
        return next(error);
105
        });
106 };
107
108 exports.postCart = (req, res, next) => {
109
      const prodId = req.body.productId;
110
      Product.findById(prodId)
111
        .then(product => {
          return req.user.addToCart(product);
112
113
        })
114
        .then(result => {
115
       console.log(result);
        res.redirect('/cart');
116
117
        })
        .catch(err => {
118
119
       const error = new Error(err);
120
        error.httpStatusCode = 500;
121
         return next(error);
```

```
122
        });
123 };
124
125 exports.postCartDeleteProduct = (req, res, next) => {
126
      const prodId = req.body.productId;
127
      req.user
128
        .removeFromCart(prodId)
129
        .then(result => {
       res.redirect('/cart');
130
131
        })
132
        .catch(err => {
133
        const error = new Error(err);
          error.httpStatusCode = 500;
134
135
        return next(error);
136
        });
137 };
138
139 exports.postOrder = (req, res, next) => {
140
      req.user
141
        .populate('cart.items.productId')
142
        .execPopulate()
143
        .then(user => {
144
          const products = user.cart.items.map(i => {
            return { quantity: i.quantity, product: { ...i.productId._doc } };
145
146
          });
147
          const order = new Order({
148
            user: {
149
              email: req.user.email,
150
              userId: req.user
151
            },
152
            products: products
153
          });
154
          return order.save();
155
        })
        .then(result => {
156
157
       return req.user.clearCart();
158
        })
159
        .then(() => {
160
        res.redirect('/orders');
161
        })
162
        .catch(err => {
         const error = new Error(err);
163
164
          error.httpStatusCode = 500;
165
        return next(error);
166
        });
167 };
168
169 exports.getOrders = (req, res, next) => {
170
      Order.find({ 'user.userId': req.user._id })
171
        .then(orders => {
172
          res.render('shop/orders', {
173
            path: '/orders',
            pageTitle: 'Your Orders',
174
175
            orders: orders
176
         });
177
        })
```

```
178
        .catch(err => {
179
          const error = new Error(err);
180
          error.httpStatusCode = 500;
181
         return next(error);
182
        });
183 };
184
185 exports.getInvoice = (req, res, next) => {
186
      const orderId = req.params.orderId;
      Order.findById(orderId)
187
188
        .then(order => {
189
          if (!order) {
190
            return next(new Error('No order found.'));
          }
191
192
          if (order.user.userId.toString() !== req.user._id.toString()) {
193
            return next(new Error('Unauthorized'));
194
          }
          const invoiceName = 'invoice-' + orderId + '.pdf';
195
196
          const invoicePath = path.join('data', 'invoices', invoiceName);
197
198
          const pdfDoc = new PDFDocument()
          res.setHeader('Content-Type', 'application/pdf');
199
200
          res.setHeader(
            'Content-Disposition',
201
            'inline; filename="' + invoiceName + '"'
202
203
          )
          pdfDoc.pipe(fs.createWriteStream(invoicePath))
204
205
          pdfDoc.pipe(res)
206
207
          pdfDoc.fontSize(26).text('Invoice', {
208
            underline: true
209
          })
210
211
          pdfDoc.text('----
212
          let totalPrice = 0
213
          /**'products' is an array
214
           * because we store this products in a database as an array.
215
           */
216
          order.products.forEach(prod => {
217
            totalPrice += prod.quantity * prod.product.price
218
            pdfDoc
219
              .fontSize(14)
220
              .text(
221
                prod.product.title +
                1 - 1 +
222
223
                prod.quantity +
224
                 ' x ' +
                '$' +
225
226
                prod.product.price)
227
          })
228
          pdfDoc.text('---')
          pdfDoc.fontSize(20).text('Total Price: $' + totalPrice)
229
230
231
          pdfDoc.end()
232
          //fs.readFile(invoicePath, (err, data) => {
233
          // if (err) {
```

```
234
         //
               return next(err);
235
236
         // res.setHeader('Content-Type', 'application/pdf');
237
         // res.setHeader(
                'Content-Disposition',
238
                'inline; filename="' + invoiceName + '"'
239
         //
240
         // );
241
       // res.send(data);
       //});
242
243
244
       //const file = fs.createReadStream(invoicePath)
245
       //file.pipe(res)
246
247
        .catch(err => next(err));
248 };
249
```

* Chapter 337: Preparing Pagination Data On The Server

```
- ./controllers/shop.js
  1 //./controllers/shop.js
  2
  3 const fs = require('fs');
  4 const path = require('path');
  6 const PDFDocument= require('pdfkit')
  8 const Product = require('../models/product');
  9 const Order = require('../models/order');
 10
 11 const ITEMS_PER_PAGE = 2
 12
 13 exports.getProducts = (req, res, next) => {
      Product.find()
 14
        .then(products => {
 15
        console.log(products);
 16
 17
          res.render('shop/product-list', {
            prods: products,
 18
 19
            pageTitle: 'All Products',
            path: '/products'
 20
 21
         });
 22
        .catch(err => {
 23
        const error = new Error(err);
 24
        error.httpStatusCode = 500;
 26
         return next(error);
 27
        });
 28 };
 29
 30 exports.getProduct = (req, res, next) => {
    const prodId = req.params.productId;
```

1. update

```
32
     Product.findById(prodId)
33
       .then(product => {
34
         res.render('shop/product-detail', {
35
           product: product,
36
           pageTitle: product.title,
37
           path: '/products'
38
      });
39
       })
       .catch(err => {
40
      const error = new Error(err);
41
42
       error.httpStatusCode = 500;
43
       return next(error);
       });
44
45 };
46
47 exports.getIndex = (req, res, next) => {
48
     const page = req.query.page
49
    let totalItems
50
51
    Product
52
      .find()
53
       .count()
54
       .then(numProducts => {
55
       totalItems = numProducts
        return Product
56
57
           .find()
58
           .skip((page - 1) * ITEMS_PER_PAGE)
           .limit(ITEMS_PER_PAGE)
59
60
       })
61
       .then(products => {
62
         res.render('shop/index', {
63
           prods: products,
           pageTitle: 'Shop',
64
65
           path: '/',
66
           totalProducts: totalItems,
67
           /**'hasNextPage' is only be the case
          * if the total number of items is greater than the page we are on.
68
69
           * times ITEMS_PER_PAGE
70
           */
71
           hasNextPage: ITEMS PER PAGE * page < totalItems,
72
           hasPreviousPage: page > 1,
73
           nextPage: page + 1,
74
           previousPage: page - 1,
75
           lastPage: Math.ceil(totalItems / ITEMS_PER_PAGE)
76
      });
77
       })
       .catch(err => {
78
79
       const error = new Error(err);
80
         error.httpStatusCode = 500;
81
       return next(error);
       });
82
83 };
84
85 exports.getCart = (req, res, next) => {
86
     req.user
       .populate('cart.items.productId')
87
```

```
88
        .execPopulate()
 89
        .then(user => {
 90
          const products = user.cart.items;
 91
          res.render('shop/cart', {
 92
            path: '/cart',
            pageTitle: 'Your Cart',
 93
 94
            products: products
 95
        });
        })
 96
        .catch(err => {
 97
 98
        const error = new Error(err);
 99
          error.httpStatusCode = 500;
        return next(error);
100
101
        });
102 };
103
104 exports.postCart = (req, res, next) => {
105
      const prodId = req.body.productId;
106
      Product.findById(prodId)
107
        .then(product => {
108
        return req.user.addToCart(product);
        })
109
110
        .then(result => {
111
        console.log(result);
       res.redirect('/cart');
112
113
        })
114
        .catch(err => {
        const error = new Error(err);
115
116
          error.httpStatusCode = 500;
117
        return next(error);
118
        });
119 };
120
121 exports.postCartDeleteProduct = (req, res, next) => {
122
      const prodId = req.body.productId;
123
      req.user
124
        .removeFromCart(prodId)
125
        .then(result => {
126
        res.redirect('/cart');
127
        })
128
        .catch(err => {
129
        const error = new Error(err);
130
          error.httpStatusCode = 500;
131
        return next(error);
132
        });
133 };
134
135 exports.postOrder = (req, res, next) => {
136
      req.user
137
        .populate('cart.items.productId')
138
        .execPopulate()
139
        .then(user => {
140
          const products = user.cart.items.map(i => {
141
            return { quantity: i.quantity, product: { ...i.productId._doc } };
142
         }):
          const order = new Order({
143
```

```
144
            user: {
145
              email: req.user.email,
146
              userId: req.user
147
            },
148
            products: products
149
          });
150
          return order.save();
151
        })
        .then(result => {
152
153
        return req.user.clearCart();
154
        .then(() => {
155
        res.redirect('/orders');
156
        })
157
158
        .catch(err => {
        const error = new Error(err);
159
160
          error.httpStatusCode = 500;
161
        return next(error);
162
        });
163 }:
164
165 exports.getOrders = (req, res, next) => {
166
      Order.find({ 'user.userId': req.user._id })
167
        .then(orders => {
          res.render('shop/orders', {
168
169
            path: '/orders',
170
            pageTitle: 'Your Orders',
            orders: orders
171
172
         });
173
        })
174
        .catch(err => {
175
        const error = new Error(err);
176
        error.httpStatusCode = 500;
177
        return next(error);
178
        });
179 };
180
181 exports.getInvoice = (req, res, next) => {
      const orderId = req.params.orderId;
182
183
      Order.findById(orderId)
184
        .then(order => {
185
          if (!order) {
            return next(new Error('No order found.'));
186
187
          }
          if (order.user.userId.toString() !== req.user._id.toString()) {
188
189
            return next(new Error('Unauthorized'));
190
          const invoiceName = 'invoice-' + orderId + '.pdf';
191
192
          const invoicePath = path.join('data', 'invoices', invoiceName);
193
194
          const pdfDoc = new PDFDocument()
195
          res.setHeader('Content-Type', 'application/pdf');
196
          res.setHeader(
197
            'Content-Disposition',
            'inline; filename="' + invoiceName + '"'
198
          )
199
```

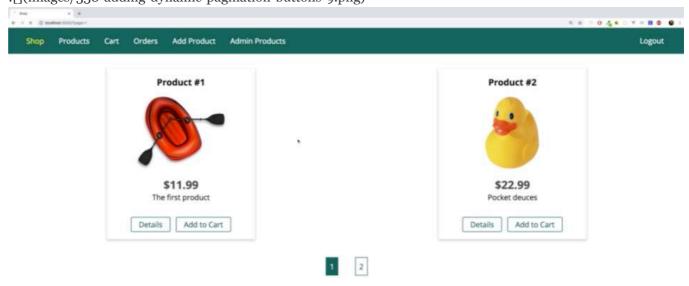
```
200
          pdfDoc.pipe(fs.createWriteStream(invoicePath))
201
          pdfDoc.pipe(res)
202
203
          pdfDoc.fontSize(26).text('Invoice', {
204
            underline: true
          })
205
206
207
          pdfDoc.text('----
          let totalPrice = 0
208
          order.products.forEach(prod => {
209
210
            totalPrice += prod.quantity * prod.product.price
211
212
              .fontSize(14)
              .text(
213
214
                prod.product.title +
215
216
                prod.quantity +
217
                 ' x ' +
                 '$' +
218
219
                prod.product.price)
220
          })
221
          pdfDoc.text('---')
222
          pdfDoc.fontSize(20).text('Total Price: $' + totalPrice)
223
224
          pdfDoc.end()
225
          //fs.readFile(invoicePath, (err, data) => {
226
              if (err) {
227
          //
                 return next(err);
228
229
              res.setHeader('Content-Type', 'application/pdf');
230
              res.setHeader(
231
          //
                 'Content-Disposition',
                 'inline; filename="' + invoiceName + '"'
232
233
          //
          // res.send(data);
234
          //});
235
236
          //const file = fs.createReadStream(invoicePath)
237
238
          //file.pipe(res)
239
        })
240
        .catch(err => next(err));
241 };
242
```

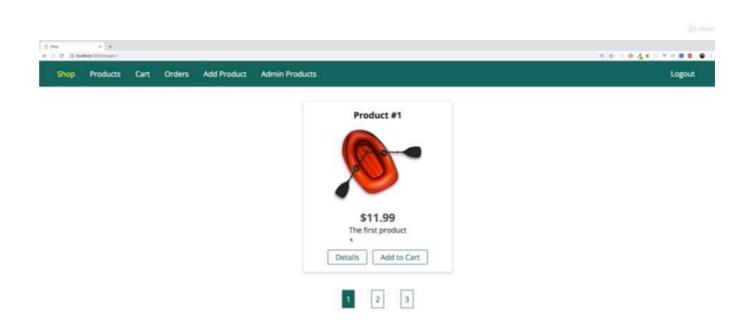
* Chapter 338: Adding Dynamic Pagination **Buttons**

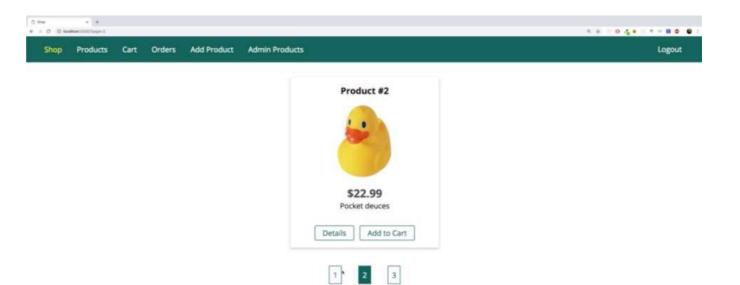
```
1. update
- ./controllers/shop.js
- ./views/shop/index.ejs
- ./public/css/main.css
![](images/338-adding-dynamic-pagination-buttons-1.png)
```

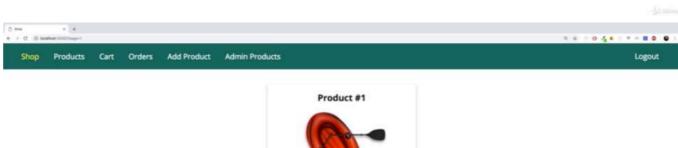
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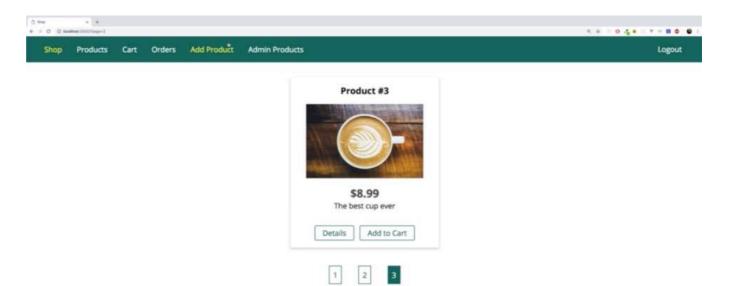


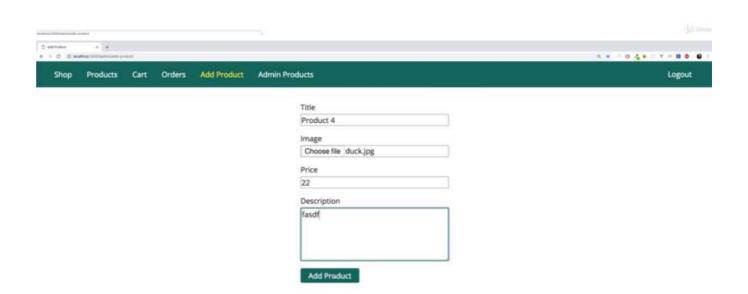


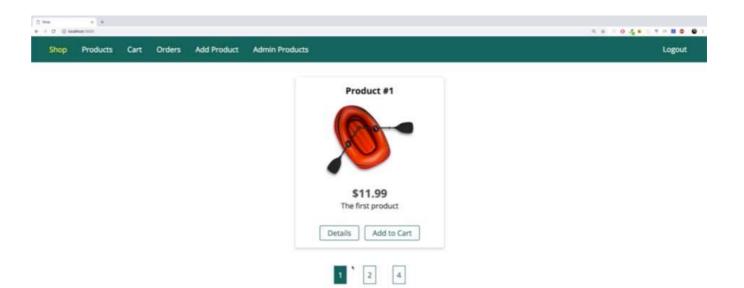


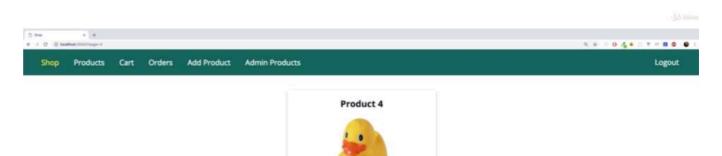






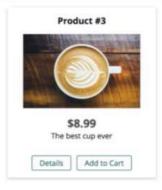




















The second secon

```
1 //./controllers/shop.js
 2
 3 const fs = require('fs');
 4 const path = require('path');
 5
 6 const PDFDocument = require('pdfkit');
8 const Product = require('../models/product');
 9 const Order = require('../models/order');
10
11 const ITEMS_PER_PAGE = 2;
12
13 exports.getProducts = (req, res, next) => {
14
     Product.find()
15
       .then(products => {
        console.log(products);
16
17
         res.render('shop/product-list', {
18
           prods: products,
           pageTitle: 'All Products',
19
           path: '/products'
20
       });
21
22
       })
23
       .catch(err => {
      const error = new Error(err);
24
       error.httpStatusCode = 500;
25
       return next(error);
26
27
       });
28 };
29
30 exports.getProduct = (req, res, next) => {
     const prodId = req.params.productId;
31
32
     Product.findById(prodId)
33
       .then(product => {
34
         res.render('shop/product-detail', {
           product: product,
35
```

```
36
           pageTitle: product.title,
37
           path: '/products'
38
      });
       })
39
40
       .catch(err => {
       const error = new Error(err);
41
42
       error.httpStatusCode = 500;
43
       return next(error);
44
       });
45 };
46
47 exports.getIndex = (reg, res, next) => {
48
     const page = req.query.page;
49
     let totalItems;
50
     Product.find()
51
52
       .countDocuments()
       .then(numProducts => {
53
       totalItems = numProducts;
54
55
         return Product.find()
56
           .skip((page - 1) * ITEMS PER PAGE)
57
           .limit(ITEMS_PER_PAGE);
58
       })
59
       .then(products => {
         res.render('shop/index', {
60
61
           prods: products,
62
           pageTitle: 'Shop',
63
           path: '/',
64
           totalProducts: totalItems,
65
           hasNextPage: ITEMS_PER_PAGE * page < totalItems,
66
           hasPreviousPage: page > 1,
67
           nextPage: page + 1,
68
           previousPage: page - 1,
           lastPage: Math.ceil(totalItems / ITEMS_PER_PAGE)
69
70
        });
71
       })
       .catch(err => {
72
73
       const error = new Error(err);
74
         error.httpStatusCode = 500;
75
       return next(error);
76
       });
77 };
78
79 exports.getCart = (req, res, next) => {
80
     req.user
       .populate('cart.items.productId')
81
82
       .execPopulate()
83
       .then(user => {
84
         const products = user.cart.items;
85
         res.render('shop/cart', {
           path: '/cart',
86
87
           pageTitle: 'Your Cart',
88
           products: products
89
       });
90
       })
       .catch(err => {
91
```

```
92
         const error = new Error(err);
 93
          error.httpStatusCode = 500;
 94
        return next(error);
 95
        });
 96 };
 97
 98 exports.postCart = (req, res, next) => {
 99
      const prodId = req.body.productId;
      Product.findById(prodId)
100
        .then(product => {
101
102
          return req.user.addToCart(product);
103
        })
        .then(result => {
104
        console.log(result);
105
106
         res.redirect('/cart');
107
        })
108
        .catch(err => {
109
        const error = new Error(err);
110
        error.httpStatusCode = 500;
111
         return next(error);
112
        });
113 };
114
115 exports.postCartDeleteProduct = (req, res, next) => {
116
      const prodId = req.body.productId;
117
      req.user
118
        .removeFromCart(prodId)
119
        .then(result => {
120
        res.redirect('/cart');
121
        })
        .catch(err => {
122
123
        const error = new Error(err);
124
        error.httpStatusCode = 500;
125
        return next(error);
        });
126
127 };
128
129 exports.postOrder = (req, res, next) => {
130
      req.user
131
        .populate('cart.items.productId')
132
        .execPopulate()
133
        .then(user => {
134
          const products = user.cart.items.map(i => {
135
            return { quantity: i.quantity, product: { ...i.productId._doc } };
136
          });
          const order = new Order({
137
138
            user: {
              email: req.user.email,
139
140
              userId: req.user
141
            },
142
            products: products
143
          });
144
        return order.save();
145
        })
146
        .then(result => {
147
        return req.user.clearCart();
```

```
148
        })
149
        .then(() => {
        res.redirect('/orders');
150
151
        })
        .catch(err => {
152
153
        const error = new Error(err);
154
        error.httpStatusCode = 500;
155
        return next(error);
156
        });
157 };
158
159 exports.getOrders = (reg, res, next) => {
      Order.find({ 'user.userId': req.user._id })
160
161
        .then(orders => {
          res.render('shop/orders', {
162
            path: '/orders',
163
164
            pageTitle: 'Your Orders',
165
            orders: orders
166
        });
167
        .catch(err => {
168
169
         const error = new Error(err);
170
        error.httpStatusCode = 500;
171
        return next(error);
172
        });
173 };
174
175 exports.getInvoice = (req, res, next) => {
176
      const orderId = req.params.orderId;
      Order.findById(orderId)
177
178
        .then(order => {
179
         if (!order) {
            return next(new Error('No order found.'));
180
181
          }
182
          if (order.user.userId.toString() !== req.user._id.toString()) {
            return next(new Error('Unauthorized'));
183
184
185
          const invoiceName = 'invoice-' + orderId + '.pdf';
          const invoicePath = path.join('data', 'invoices', invoiceName);
186
187
188
          const pdfDoc = new PDFDocument();
189
          res.setHeader('Content-Type', 'application/pdf');
190
          res.setHeader(
191
            'Content-Disposition',
            'inline; filename="' + invoiceName + '"'
192
193
          );
194
          pdfDoc.pipe(fs.createWriteStream(invoicePath));
          pdfDoc.pipe(res);
195
196
197
          pdfDoc.fontSize(26).text('Invoice', {
            underline: true
198
199
          });
200
          pdfDoc.text('----
          let totalPrice = 0;
201
          order.products.forEach(prod => {
202
203
            totalPrice += prod.quantity * prod.product.price;
```

```
204
            pdfDoc
205
              .fontSize(14)
206
              .text(
207
                prod.product.title +
                 1 - 1 +
208
209
                  prod.quantity +
                  1 X 1 +
210
                  '$' +
211
212
                  prod.product.price
213
              );
214
          });
215
          pdfDoc.text('---');
216
          pdfDoc.fontSize(20).text('Total Price: $' + totalPrice);
217
218
          pdfDoc.end();
219
          // fs.readFile(invoicePath, (err, data) => {
220
          //
               if (err) {
221
          //
                 return next(err);
222
          //
               }
223
          //
               res.setHeader('Content-Type', 'application/pdf');
224
          //
               res.setHeader(
225
          //
                 'Content-Disposition',
                 'inline; filename="' + invoiceName + '"'
226
          //
          //
227
              );
               res.send(data);
228
          //
         // });
229
       // const file = fs.createReadStream(invoicePath);
230
231
232
       // file.pipe(res);
233
        })
234
        .catch(err => next(err));
235 }:
236
 1 <!--./views/shop/index.ejs-->
  2
  3 <%- include('../includes/head.ejs') %>
       <link rel="stylesheet" href="/css/product.css">
  4
  5 </head>
  6
  7 <body>
  8
        <%- include('../includes/navigation.ejs') %>
  9
        <main>
 10
            <% if (prods.length > 0) { %>
 11
 12
                <div class="grid">
                    <% for (let product of prods) { %>
 13
                        <article class="card product-item">
 14
 15
                            <header class="card header">
 16
                                <h1 class="product__title"><%= product.title %></h1>
 17
                            </header>
                            <div class="card__image">
 18
                                <img src="/<%= product.imageUrl %>"
 19
                                    alt="<%= product.title %>">
 20
 21
                            </div>
 22
                            <div class="card__content">
                                <h2 class="product__price">$<%= product.price %></h2>
 23
```

```
24
                               <%= product.description %>
25
                           </div>
26
                           <div class="card__actions">
27
                               <a href="/products/<%= product._id %>" class="btn">Details</a>
28
                               <% if (isAuthenticated) { %>
29
                                   <%- include('../includes/add-to-cart.ejs', {product:</pre>
   product}) %>
30
                               <% } %>
                           </div>
31
32
                       </article>
33
                   <% } %>
34
               </div>
35
               <section class="pagination">
                       <% if (currentPage !== 1 && previousPage !== 1) { %>
36
37
                           <a href="/?page=1">1</a>
                       <% } %>
38
39
                       <% if (hasPreviousPage) { %>
40
                           <a href="/?page=<%= previousPage %>"><%= previousPage %></a>
                       <% } %>
41
42
                       <a href="/?page=<%= currentPage %>" class="active"><%= currentPage %>
   </a>
43
                       <% if (hasNextPage) { %>
44
                           <a href="/?page=<%= nextPage %>"><%= nextPage %></a>
                       <% } %>
45
46
                       <% if (lastPage !== currentPage && nextPage !== lastPage) { %>
47
                           <a href="/?page=<%= lastPage %>"><%= lastPage %></a>
48
                       <% } %>
                   </section>
49
50
               <% } else { %>
               <h1>No Products Found!</h1>
51
52
           <% } %>
53
       </main>
54 <%- include('../includes/end.ejs') %>
1 /*./public/css/main.css*/
 2
 3 @import url('https://fonts.googleapis.com/css?family=0pen+Sans:400,700');
 4
 5 * {
   box-sizing: border-box;
 7 }
 8
 9 body {
     padding: 0;
10
11
    margin: 0;
12
     font-family: 'Open Sans', sans-serif;
13 }
14
15 main {
     padding: 1rem;
16
     margin: auto;
17
18 }
19
20 form {
     display: inline;
21
22 }
23
```

```
24 .centered {
25
     text-align: center;
26 }
27
28 .image {
    height: 20rem;
30 }
31
32 .image img {
    height: 100%;
33
34 }
35
36 .main-header {
37
   width: 100%;
   height: 3.5rem;
38
39
   background-color: #00695c;
40 padding: 0 1.5rem;
41
    display: flex;
42
    align-items: center;
43 }
44
45 .main-header__nav {
46
   height: 100%;
47
    width: 100%;
48
    display: none;
49
    align-items: center;
50
     justify-content: space-between;
51 }
52
53 .main-header__item-list {
54
    list-style: none;
55
   margin: 0;
56
     padding: 0;
57
     display: flex;
58 }
59
60 .main-header__item {
    margin: 0 1rem;
61
62
     padding: 0;
63 }
64
65 .main-header__item a,
66 .main-header__item button {
67
    font: inherit;
68
    background: transparent;
69
   border: none;
70
    text-decoration: none;
71
    color: white;
72
     cursor: pointer;
73 }
74
75 .main-header__item a:hover,
76 .main-header__item a:active,
77 .main-header__item a.active,
78 .main-header__item button:hover,
79 .main-header__item button:active {
```

```
80
     color: #ffeb3b;
 81 }
 82
 83 .mobile-nav {
 84
      width: 30rem;
      height: 100vh;
 85
      max-width: 90%;
 86
 87
      position: fixed;
      left: 0;
 88
 89
      top: 0;
 90
      background: white;
 91
      z-index: 10;
 92
      padding: 2rem 1rem 1rem 2rem;
 93
      transform: translateX(-100%);
 94
      transition: transform 0.3s ease-out;
 95 }
 96
 97 .mobile-nav.open {
      transform: translateX(0);
 99 }
100
101 .mobile-nav__item-list {
102
     list-style: none;
103
      display: flex;
104
     flex-direction: column;
105
      margin: 0;
106
      padding: 0;
107 }
108
109 .mobile-nav__item {
110
      margin: 1rem;
111
      padding: 0;
112 }
113
114 .mobile-nav__item a,
115 .mobile-nav__item button {
116
     font: inherit;
117
      text-decoration: none;
118
     color: black;
119
      font-size: 1.5rem;
120
      padding: 0.5rem 2rem;
121
      background: transparent;
122
      border: none;
123
      cursor: pointer;
124 }
125
126 .mobile-nav__item a:active,
127 .mobile-nav__item a:hover,
128 .mobile-nav__item a.active,
129 .mobile-nav__item button:hover,
130 .mobile-nav__item button:active {
      background: #00695c;
131
132
      color: white;
133
      border-radius: 3px;
134 }
135
```

```
136 #side-menu-toggle {
137
      border: 1px solid white;
138
      font: inherit;
139
      padding: 0.5rem;
140
      display: block;
141
      background: transparent;
142
      color: white;
143
      cursor: pointer;
144 }
145
146 #side-menu-toggle:focus {
147
      outline: none;
148 }
149
150 #side-menu-toggle:active,
151 #side-menu-toggle:hover {
152
      color: #ffeb3b;
      border-color: #ffeb3b;
153
154 }
155
156 .backdrop {
157
      position: fixed;
158
     top: 0;
159
     left: 0;
160
     width: 100%;
161
      height: 100vh;
162
      background: rgba(0, 0, 0, 0.5);
163
      z-index: 5;
164
      display: none;
165 }
166
167 .grid {
168
     display: flex;
169
     flex-wrap: wrap;
170
      justify-content: space-around;
171
      align—items: stretch;
172 }
173
174 .card {
      box-shadow: 0 2px 8px rgba(0, 0, 0, 0.26);
176 }
177
178 .card_header,
179 .card__content {
180
      padding: 1rem;
181 }
182
183 .card_header h1,
184 .card__content h1,
185 .card__content h2,
186 .card__content p {
     margin: 0;
187
188 }
189
190 .card__image {
191 width: 100%;
```

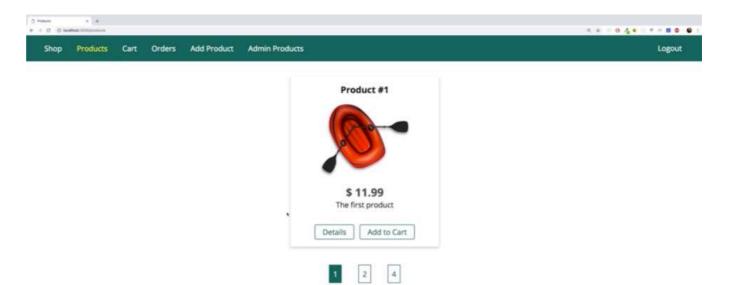
```
192 }
193
194 .card__image img {
195
      width: 100%;
196 }
197
198 .card__actions {
199
      padding: 1rem;
200
      text-align: center;
201 }
202
203 .card actions button,
204 .card__actions a {
      margin: 0 0.25rem;
205
206 }
207
208 .btn {
209
      display: inline-block;
210
      padding: 0.25rem 1rem;
211
      text-decoration: none;
212
      font: inherit;
213
      border: 1px solid #00695c;
214
      color: #00695c;
215
      background: white;
216
      border-radius: 3px;
217
      cursor: pointer;
218 }
219
220 .btn:hover,
221 .btn:active {
222
      background-color: #00695c;
223
      color: white;
224 }
225
226 .btn.danger {
227
      color: red;
228
      border-color: red;
229 }
230
231 .btn.danger:hover,
232 .btn.danger:active {
233
      background: red;
234
      color: white;
235 }
236
237 .user-message {
238
      margin: auto;
239
      width: 90%;
240
      border: 1px solid #4771fa;
241
      padding: 0.5rem;
242
      border-radius: 3px;
243
      background: #b9c9ff;
244
      text-align: center;
245 }
246
247 .user-message--error {
```

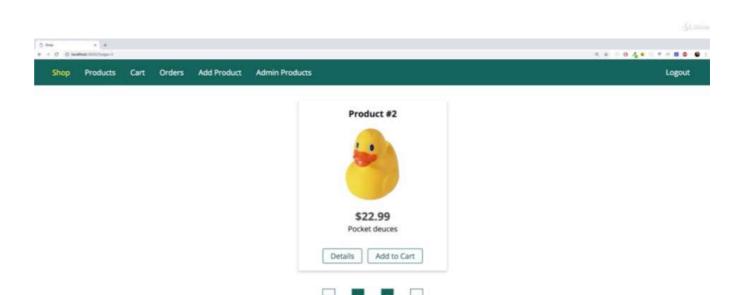
```
248
      border-color: red;
249
      background: rgb(255, 176, 176);
250
      color: red;
251 }
252
253 .pagination {
254
      margin-top: 2rem;
255
      text-align: center
256 }
257
258 .pagination a {
259
      text-decoration: none;
260
      color: #00695c;
261
      padding: 0.5rem;
262
      border: 1px solid #00695c;
263
      margin: 0 1rem;
264 }
265
266 .pagination a:hover,
267 .pagination a:active,
268 .pagination a.active {
269
      background: #00695c;
270
      color: white;
271 }
272
273 @media (min-width: 768px) {
274
      .main-header__nav {
275
        display: flex;
276
277
278
      #side-menu-toggle {
279
        display: none;
280
281
282
      .user-message {
283
        width: 30rem;
284
285 }
286
```

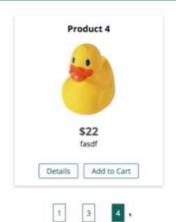
* Chapter 339: Re-Using The Pagination Logic & Controls

```
    update
    /views/shop/index.ejs
    /views/includes/pagination.ejs
    /views/shop/product-list.ejs
    /controllers/shop.js
```

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11.

```
1 //./controllers/shop.js
 2
 3 const fs = require('fs');
 4 const path = require('path');
 5
 6 const PDFDocument = require('pdfkit');
 8 const Product = require('../models/product');
 9 const Order = require('../models/order');
10
11 const ITEMS_PER_PAGE = 2;
12
13 exports.getProducts = (req, res, next) => {
14
     const page = +req.query.page || 1;
15
     let totalItems;
16
17
     Product.find()
       .countDocuments()
18
       .then(numProducts => {
19
20
        totalItems = numProducts;
21
         return Product.find()
22
           .skip((page - 1) * ITEMS_PER_PAGE)
23
           .limit(ITEMS_PER_PAGE);
24
       })
       .then(products => {
25
26
         res.render('shop/product-list', {
27
           prods: products,
28
           pageTitle: 'Products',
29
           path: '/products',
30
           currentPage: page,
           hasNextPage: ITEMS_PER_PAGE * page < totalItems,</pre>
31
32
           hasPreviousPage: page > 1,
33
           nextPage: page + 1,
34
           previousPage: page - 1,
35
           lastPage: Math.ceil(totalItems / ITEMS_PER_PAGE)
```

```
36
      });
37
       .catch(err => {
38
       const error = new Error(err);
39
      error.httpStatusCode = 500;
40
41
       return next(error);
42
       });
43 };
44
45 exports.getProduct = (req, res, next) => {
46
     const prodId = req.params.productId;
47
     Product.findById(prodId)
       .then(product => {
48
49
         res.render('shop/product-detail', {
50
           product: product,
51
           pageTitle: product.title,
52
           path: '/products'
53
      });
       })
54
55
       .catch(err => {
56
      const error = new Error(err);
57
         error.httpStatusCode = 500;
58
       return next(error);
59
       });
60 };
61
62 exports.getIndex = (req, res, next) => {
     const page = +req.query.page || 1;
63
64
     let totalItems;
65
     Product.find()
66
67
       .countDocuments()
       .then(numProducts => {
68
69
         totalItems = numProducts;
70
         return Product.find()
71
           .skip((page - 1) * ITEMS_PER_PAGE)
72
           .limit(ITEMS_PER_PAGE);
73
       })
74
       .then(products => {
75
         res.render('shop/index', {
76
           prods: products,
77
           pageTitle: 'Shop',
78
           path: '/',
79
           currentPage: page,
80
           hasNextPage: ITEMS_PER_PAGE * page < totalItems,
           hasPreviousPage: page > 1,
81
82
           nextPage: page + 1,
           previousPage: page - 1,
83
84
           lastPage: Math.ceil(totalItems / ITEMS_PER_PAGE)
85
       });
       })
86
       .catch(err => {
87
88
        const error = new Error(err);
89
      error.httpStatusCode = 500;
90
       return next(error);
91
       });
```

```
92 };
 93
 94 exports.getCart = (req, res, next) => {
 95
      req.user
 96
        .populate('cart.items.productId')
 97
        .execPopulate()
 98
        .then(user => {
 99
          const products = user.cart.items;
          res.render('shop/cart', {
100
            path: '/cart',
101
102
            pageTitle: 'Your Cart',
103
            products: products
104
        });
105
        })
106
        .catch(err => {
        const error = new Error(err);
107
108
          error.httpStatusCode = 500;
109
        return next(error);
110
        });
111 };
112
113 exports.postCart = (req, res, next) => {
114
      const prodId = req.body.productId;
115
      Product.findById(prodId)
116
        .then(product => {
117
        return req.user.addToCart(product);
118
        })
119
        .then(result => {
120
        console.log(result);
121
       res.redirect('/cart');
        })
122
123
        .catch(err => {
124
        const error = new Error(err);
125
          error.httpStatusCode = 500;
126
        return next(error);
127
        });
128 };
129
130 exports.postCartDeleteProduct = (req, res, next) => {
131
      const prodId = req.body.productId;
132
      req.user
133
        .removeFromCart(prodId)
134
        .then(result => {
        res.redirect('/cart');
135
136
        })
        .catch(err => {
137
        const error = new Error(err);
138
139
          error.httpStatusCode = 500;
140
        return next(error);
141
        });
142 };
143
144 exports.postOrder = (req, res, next) => {
145
      req.user
146
        .populate('cart.items.productId')
147
        .execPopulate()
```

```
148
        .then(user => {
149
          const products = user.cart.items.map(i => {
            return { quantity: i.quantity, product: { ...i.productId._doc } };
150
151
          });
152
          const order = new Order({
            user: {
153
154
            email: req.user.email,
155
            userId: req.user
156
            },
157
            products: products
158
159
        return order.save();
160
        .then(result => {
161
162
        return req.user.clearCart();
163
        })
164
        .then(() => {
165
       res.redirect('/orders');
166
        })
167
        .catch(err => {
168
        const error = new Error(err);
169
          error.httpStatusCode = 500;
170
        return next(error);
171
        });
172 };
173
174 exports.getOrders = (req, res, next) => {
      Order.find({ 'user.userId': req.user. id })
175
176
        .then(orders => {
177
          res.render('shop/orders', {
178
            path: '/orders',
179
            pageTitle: 'Your Orders',
            orders: orders
180
181
       });
        })
182
        .catch(err => {
183
184
        const error = new Error(err);
185
         error.httpStatusCode = 500;
        return next(error);
186
187
        });
188 };
189
190 exports.getInvoice = (reg, res, next) => {
191
      const orderId = req.params.orderId;
192
      Order.findById(orderId)
193
        .then(order => {
194
          if (!order) {
            return next(new Error('No order found.'));
195
196
197
         if (order.user.userId.toString() !== req.user._id.toString()) {
198
            return next(new Error('Unauthorized'));
199
200
          const invoiceName = 'invoice-' + orderId + '.pdf';
201
          const invoicePath = path.join('data', 'invoices', invoiceName);
202
203
          const pdfDoc = new PDFDocument();
```

```
res.setHeader('Content-Type', 'application/pdf');
204
205
          res.setHeader(
206
            'Content-Disposition',
            'inline; filename="' + invoiceName + '"'
207
         );
208
209
          pdfDoc.pipe(fs.createWriteStream(invoicePath));
210
          pdfDoc.pipe(res);
211
          pdfDoc.fontSize(26).text('Invoice', {
212
            underline: true
213
214
         });
          pdfDoc.text('-----');
215
216
          let totalPrice = 0;
          order.products.forEach(prod => {
217
218
            totalPrice += prod.quantity * prod.product.price;
219
220
              .fontSize(14)
221
             .text(
222
                prod.product.title +
                 1 - 1 +
223
224
                 prod.quantity +
225
                  ' x ' +
                  '$' +
226
                 prod.product.price
227
228
              );
229
          });
230
          pdfDoc.text('---');
          pdfDoc.fontSize(20).text('Total Price: $' + totalPrice);
231
232
233
         pdfDoc.end();
234
         // fs.readFile(invoicePath, (err, data) => {
235
               if (err) {
236
                 return next(err);
          //
237
         //
             res.setHeader('Content-Type', 'application/pdf');
238
         //
239
         //
              res.setHeader(
                'Content-Disposition',
240
         //
241
         //
                 'inline; filename="' + invoiceName + '"'
242
         //
               );
243
         //
               res.send(data);
244
         // });
245
         // const file = fs.createReadStream(invoicePath);
246
247
       // file.pipe(res);
        })
248
249
        .catch(err => next(err));
250 };
251
 1 <!--./views/shop/index.ejs-->
  2
  3 <%- include('../includes/head.ejs') %>
       <link rel="stylesheet" href="/css/product.css">
  5 </head>
  6
  7 <body>
       <%- include('../includes/navigation.ejs') %>
```

```
9
10
       <main>
11
           <% if (prods.length > 0) { %>
               <div class="grid">
12
                   <% for (let product of prods) { %>
13
                       <article class="card product-item">
14
                           <header class="card_header">
15
16
                               <h1 class="product__title"><%= product.title %></h1>
17
                           </header>
18
                           <div class="card__image">
19
                               <img src="/<%= product.imageUrl %>"
20
                                   alt="<%= product.title %>">
21
                           </div>
                           <div class="card__content">
22
23
                               <h2 class="product__price">$<%= product.price %></h2>
                               <%= product.description %>
24
25
                           </div>
26
                           <div class="card actions">
27
                               <a href="/products/<%= product._id %>" class="btn">Details</a>
28
                               <% if (isAuthenticated) { %>
29
                                   <%- include('../includes/add-to-cart.ejs', {product:</pre>
   product}) %>
30
                               <% } %>
31
                           </div>
                       </article>
32
                   <% } %>
33
34
               </div>
               <%- include('../includes/pagination.ejs', {currentPage: currentPage, nextPage:</pre>
35
   nextPage, previousPage: previousPage, lastPage: lastPage, hasNextPage; hasNextPage,
   hasPreviousPage: hasPreviousPage}) %>
36
           <% } else { %>
37
               <h1>No Products Found!</h1>
38
           <% } %>
39
       </main>
40 <%- include('../includes/end.ejs') %>
1 <!--./views/includes/pagination.ejs-->
 2
 3 <section class="pagination">
       <% if (currentPage !== 1 && previousPage !== 1) { %>
 4
 5
           <a href="?page=1">1</a>
 6
       <% } %>
 7
       <% if (hasPreviousPage) { %>
          <a href="?page=<%= previousPage %>"><%= previousPage %></a>
 8
 9
      <% } %>
10
      <a href="?page=<%= currentPage %>" class="active"><%= currentPage %></a>
11
       <% if (hasNextPage) { %>
          <a href="?page=<%= nextPage %>"><%= nextPage %></a>
12
13
       <% } %>
14
       <% if (lastPage !== currentPage && nextPage !== lastPage) { %>
          <a href="?page=<%= lastPage %>"><%= lastPage %></a>
15
       <% } %>
16
17 </section>
1 <!--./views/shop/product-list.ejs-->
 2
 3 <%- include('../includes/head.ejs') %>
```

```
4
       <link rel="stylesheet" href="/css/product.css">
 5
       </head>
 6
 7
       <body>
 8
           <%- include('../includes/navigation.ejs') %>
 9
10
               <main>
11
                   <% if (prods.length > 0) { %>
                       <div class="grid">
12
                           <% for (let product of prods) { %>
13
14
                               <article class="card product-item">
                                    <header class="card header">
15
                                        <h1 class="product__title">
16
                                           <%= product.title %>
17
                                        </h1>
18
                                   </header>
19
                                   <div class="card__image">
20
21
                                        <img src="/<%= product.imageUrl %>" alt="<%=</pre>
   product.title %>">
22
                                   </div>
23
                                   <div class="card content">
24
                                        <h2 class="product__price">$
25
                                           <%= product.price %>
                                        </h2>
26
                                        27
28
                                           <%= product.description %>
29
                                        </div>
30
31
                                   <div class="card__actions">
32
                                       <a href="/products/<%= product._id %>"
   class="btn">Details</a>
33
                                        <% if (isAuthenticated) { %>
34
                                           <%- include('../includes/add-to-cart.ejs', {product:</pre>
   product}) %>
                                        <% } %>
35
36
                                    </div>
37
                               </article>
38
                               <% } %>
39
                       </div>
                       <%- include('../includes/pagination.ejs', {currentPage: currentPage,</pre>
40
   nextPage: nextPage, previousPage: previousPage, lastPage: lastPage, hasNextPage:
   hasNextPage, hasPreviousPage: hasPreviousPage}) %>
41
                       <% } else { %>
                           <h1>No Products Found!</h1>
42
                           <% } %>
43
44
               </main>
               <%- include('../includes/end.ejs') %>
45
```