FULL STACK CW01

Project Demo Guide

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Table of Contents

Table of Figures	1
General Requirements	2
"Display List of Lessons" functionality	2
Sort functionality	4
"Add to Cart" functionality	5
"Shopping Cart" functionality	6
Checkout functionality	7
Search Functionality	8
MongoDB	9
Middleware Functions implemented in the Express.js Server	9
REST API implemented in the Express.js Server	9
Fetch Functions implemented in the Front-End	9
Demo Prep	10
Table of Figures	
Figure 1 Display list of lessons	3
Figure 2 Sort Menu	
Figure 3 Add to Cart	
Figure 4 Shopping Cart	
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General Requirements

A) GitHub Repositories

only 1 repository is used

https://github.com/MGukhool9090/CST3144 CW01 M00943068.git

B) GitHub Pages

app is running locally

C) AWS (or render.com)

the server is run locally

"Display List of Lessons" functionality

- A) 10 lessons, and each lesson should have 5 spaces
- B) each lesson should have at least: Subject, Location, Price, Spaces (or availability: this indicates how many spaces are left), a Font Awesome icon (or an Image)
- C) v-for must be used for the display of the lesson list



Figure 1 Display list of lessons

Sort functionality

- A) user can choose to sort the lessons by one of the following attributes: subject, location, price, or spaces (i.e. availability)
- B) option to sort in ascending or descending order

the relevant lines in vue.html are as follows:

53 - 78, 190 - 191, 213 - 232

Sort Courses Sort by Title Sort by Location Sort by Availability
Sort by Location
Sort by Availability
O Soit by Availability
O Sort by Price
O Sort by Rating
Sort Order
Ascending
Descending

Figure 2 Sort Menu

"Add to Cart" functionality

- A) each lesson must have an "Add to Cart" button
- B) clicking the button once will add one space to the shopping cart, reducing the remaining space by one
- C) once there is no more space, i.e. space = 0, the "Add to cart" button should be disabled but still visible, i.e. clicking it will not further reduce "space" nor add lessons to the cart

the relevant lines in vue.html are as follows:

100 – 105, 279 – 286, 292 – 294

Availability: 21 available

Rating:2 stars

Add to Cart Only 21 left!

Availability: 18 available

Rating:4 stars

Add to Cart Only 18 left!

Add to Cart Only 7 left!

Figure 3 Add to Cart

"Shopping Cart" functionality

- A) shopping cart button should only be enabled after at least one lesson is added to cart
- B) clicking the shopping cart button should show the cart page, and clicking the button again goes back to the lesson page
- C) the shopping cart, in the cart page, should show all the lessons added
- D) shopping cart page, the user should be able to remove lessons from the shopping cart; the removed lesson is added back to the lesson list

the relevant lines in vue.html are as follows:

112 – 178, 195, 296 – 299

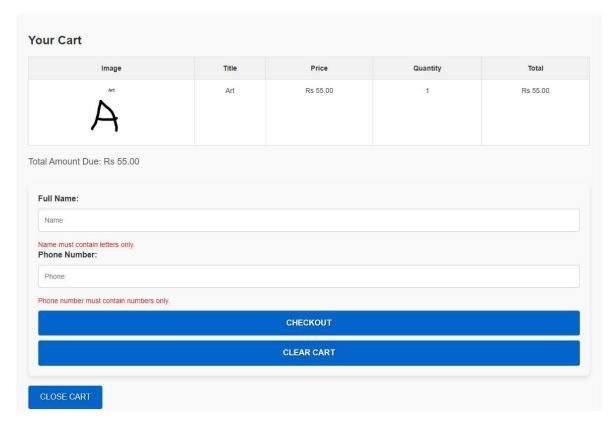


Figure 4 Shopping Cart

Checkout functionality

- A) checkout is part of the shopping cart page
- B) "checkout" button is always visible and only enabled (clickable) after valid "Name" and "Phone" are provided
- C) the "Name" must be letters only and the "Phone" must be numbers only; the check must be done using JavaScript
- D) clicking the "checkout" button should display a message confirming the order has been submitted

the relevant lines in vue.html are as follows:

196-201, 315 - 325

Search Functionality

"Implemented only in the Front-End"

the relevant lines in vue.html are as follows:

48 – 50, 189, 205 – 232

Search Courses Search by title, location, or price

Figure 5 Search Bar

MongoDB

a collection for lesson information

Mongodb Atlas

mongodb+srv://mg1415:CW01@cluster0.eyfy3.mongodb.net/?retryWrites=true&w=majority&app Name=Cluster0

Middleware Functions implemented in the Express.js Server

- A) a "logger" middleware that outputs all requests to the server console
- B) a static file middleware that returns lesson images, or an error message if the image file does not exist

the relevant lines in express.js are as follows:

23 - 43

REST API implemented in the Express.js Server

- A) one GET route /lessons, which returns all the lessons as a Json
- B) one POST route, which saves a new order to the "order" collection
- C) one PUT route, which can update any attribute in a lesson of the "lesson" collection

the relevant lines in express.js are as follows:

67 - 242

Fetch Functions implemented in the Front-End

A) one fetch that retrieves all the lessons with GET

the relevant lines in vue.html are as follows:

253 - 269

Demo Prep

GET all

http://localhost:3000/courses/

GET specific

http://localhost:3000/courses/674980a78b75fde903313d29

http://localhost:3000/courses/674980a78b75fde903313d2a

http://localhost:3000/courses/674980a78b75fde903313d2f

http://localhost:3000/courses/674980a78b75fde903313d32

```
POST new
  "title": "Occult Research",
  "location": "Albion",
  "price": 6666,
  "image": "images/art.png",
  "availableInventory": 666,
  "rating": 3
}
PUT
{
  "title": "Occult Research",
  "location": "Albion",
  "price": 6666,
  "image": "images/art.png",
  "availableInventory": 666,
  "rating": 3
}
```

DELETE

http://localhost:3000/courses/674980a78b75fde903313d29

http://localhost:3000/courses/674980a78b75fde903313d2a

http://localhost:3000/courses/674980a78b75fde903313d2f

http://localhost:3000/courses/674980a78b75fde903313d32