



# FULL STACK CW01

## Project Demo Guide

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## General Requirements

A) GitHub Repositories

only 1 repository is used

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

<p>Search Courses</p> <input type="text" value="Search by title, location, or price"/> <p>Sort Courses</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Sort by Title</li> <li><input type="checkbox"/> Sort by Location</li> <li><input type="checkbox"/> Sort by Availability</li> <li><input type="checkbox"/> Sort by Price</li> <li><input type="checkbox"/> Sort by Rating</li> </ul> <p>Sort Order</p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Ascending</li> <li><input type="checkbox"/> Descending</li> </ul> <p><a href="#">Buy Checkout</a></p>	<p><b>Art</b></p> <p>A</p> <p>Art</p> <p>Location: Room 448</p> <p>Price: Rs 55.00</p> <p>Availability: 21 available</p> <p>Rating: 3 stars</p> <p><a href="#">Add to Cart</a> Only 21 left</p>	<p><b>Biology</b></p> <p>B</p> <p>Biology</p> <p>Location: Beau Garden</p> <p>Price: Rs 68.00</p> <p>Availability: 18 available</p> <p>Rating: 4 stars</p> <p><a href="#">Add to Cart</a> Only 18 left</p>	<p><b>Chemistry</b></p> <p>C</p> <p>Chemistry</p> <p>Location: Sanshou</p> <p>Price: Rs 80.00</p> <p>Availability: 7 available</p> <p>Rating: 1 stars</p> <p><a href="#">Add to Cart</a> Only 7 left</p>
	<p><b>Computer Science</b></p> <p>CS</p> <p>Computer Science</p> <p>Location: Commandel</p> <p>Price: Rs 76.00</p> <p>Availability: 20 available</p> <p>Rating: 3 stars</p> <p><a href="#">Add to Cart</a> Only 20 left</p>	<p><b>Mathematics</b></p> <p>M</p> <p>Criminology</p> <p>Location: Tern Rouge</p> <p>Price: Rs 680.00</p> <p>Availability: 26 available</p> <p>Rating: 4.5 stars</p> <p><a href="#">Add to Cart</a> Buy now</p>	<p><b>Computer Science</b></p> <p>CS</p> <p>Dance Practice</p> <p>Location: Soubat</p> <p>Price: Rs 3000.00</p> <p>Availability: 200 available</p> <p>Rating: 1 stars</p> <p><a href="#">Add to Cart</a> Buy now</p>
	<p><b>English</b></p> <p>E</p> <p>English</p> <p>Location: Quatre Borne</p> <p>Price: Rs 75.00</p> <p>Availability: 10 available</p> <p>Rating: 5 stars</p> <p><a href="#">Add to Cart</a> Only 10 left</p>	<p><b>French</b></p> <p>F</p> <p>French</p> <p>Location: Port Louis</p> <p>Price: Rs 130.00</p> <p>Availability: 15 available</p> <p>Rating: 3 stars</p> <p><a href="#">Add to Cart</a> Only 15 left</p>	<p><b>Computer Science</b></p> <p>CS</p> <p>Game and Technology</p> <p>Location: Grand Port</p> <p>Price: Rs 1000.00</p> <p>Availability: 55 available</p> <p>Rating: 3 stars</p> <p><a href="#">Add to Cart</a> Buy now</p>
	<p><b>Hindi</b></p> <p>H</p> <p>Hindi</p> <p>Location: Filion Plaza</p> <p>Price: Rs 35.00</p> <p>Availability: 9 available</p> <p>Rating: 2 stars</p> <p><a href="#">Add to Cart</a> Only 9 left</p>	<p><b>Mathematics</b></p> <p>M</p> <p>Mathematics</p> <p>Location: Benthous, Petite Riviere</p> <p>Price: Rs 580.00</p> <p>Availability: 980 available</p> <p>Rating: 3.5 stars</p> <p><a href="#">Add to Cart</a> Buy now</p>	<p><b>Art</b></p> <p>A</p> <p>Occult Research</p> <p>Location: Adair</p> <p>Price: Rs 6800.00</p> <p>Availability: 665 available</p> <p>Rating: 3 stars</p> <p><a href="#">Add to Cart</a> Buy now</p>
	<p><b>Physics</b></p> <p>P</p> <p>Physics</p> <p>Location: Belle Rose</p> <p>Price: Rs 80.00</p> <p>Availability: 10 available</p> <p>Rating: 5 stars</p> <p><a href="#">Add to Cart</a> Only 10 left</p>	<p><b>Mathematics</b></p> <p>M</p> <p>Psychology</p> <p>Location: Tern Rouge</p> <p>Price: Rs 250.00</p> <p>Availability: 26 available</p> <p>Rating: 5 stars</p> <p><a href="#">Add to Cart</a> Buy now</p>	<p><b>Social Studies</b></p> <p>SS</p> <p>Social Studies</p> <p>Location: Port Louis</p> <p>Price: Rs 40.00</p> <p>Availability: 11 available</p> <p>Rating: 2 stars</p> <p><a href="#">Add to Cart</a> Only 11 left</p>

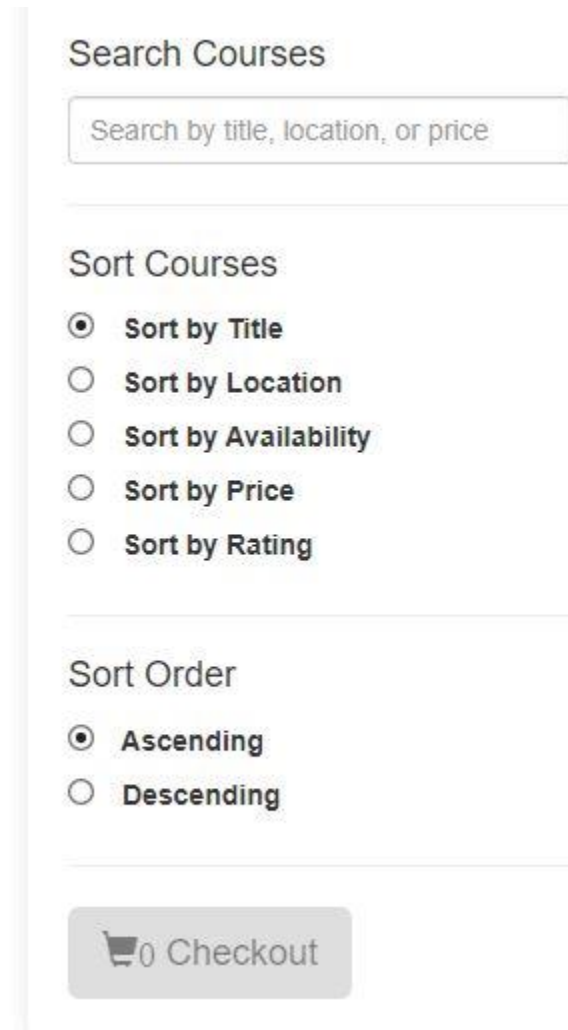
Figure 1 Display list of lessons

## 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



The image shows a sidebar menu with three sections: 'Search Courses', 'Sort Courses', and 'Sort Order'. The 'Search Courses' section has a text input field with the placeholder 'Search by title, location, or price'. The 'Sort Courses' section has five radio button options: 'Sort by Title' (selected), 'Sort by Location', 'Sort by Availability', 'Sort by Price', and 'Sort by Rating'. The 'Sort Order' section has two radio button options: 'Ascending' (selected) and 'Descending'. At the bottom of the sidebar is a button with a shopping cart icon and the text '0 Checkout'.

**Search Courses**

Search by title, location, or price

---

**Sort Courses**

- ☒ **Sort by Title**
- ☐ **Sort by Location**
- ☐ **Sort by Availability**
- ☐ **Sort by Price**
- ☐ **Sort by Rating**

---

**Sort Order**

- ☒ **Ascending**
- ☐ **Descending**

---


 **0 Checkout**

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

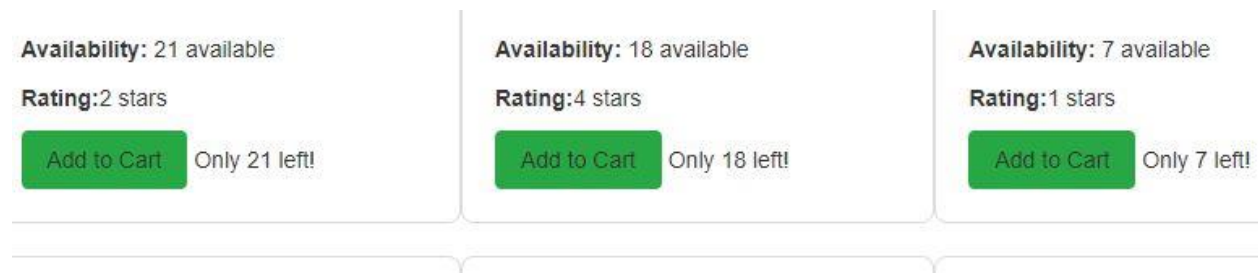


Figure 3 Add to Cart


## “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

### Your Cart

Image	Title	Price	Quantity	Total
	Art	Rs 55.00	1	Rs 55.00

Total Amount Due: Rs 55.00

**Full Name:**

Name must contain letters only.

**Phone Number:**

Phone number must contain numbers only.

**CHECKOUT**

**CLEAR CART**

**CLOSE CART**

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

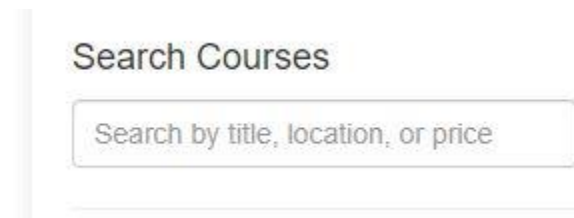


## Search Functionality

“Implemented only in the Front-End”

the relevant lines in vue.html are as follows:

48 – 50, 189, 205 – 232



*Figure 5 Search Bar*

## MongoDB

a collection for lesson information

- MongoDB Atlas

## 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>