

# Frontend Assignment

## Part 1: Web Designing

## Part 2: Advance JavaScript

## Part 3: React Js

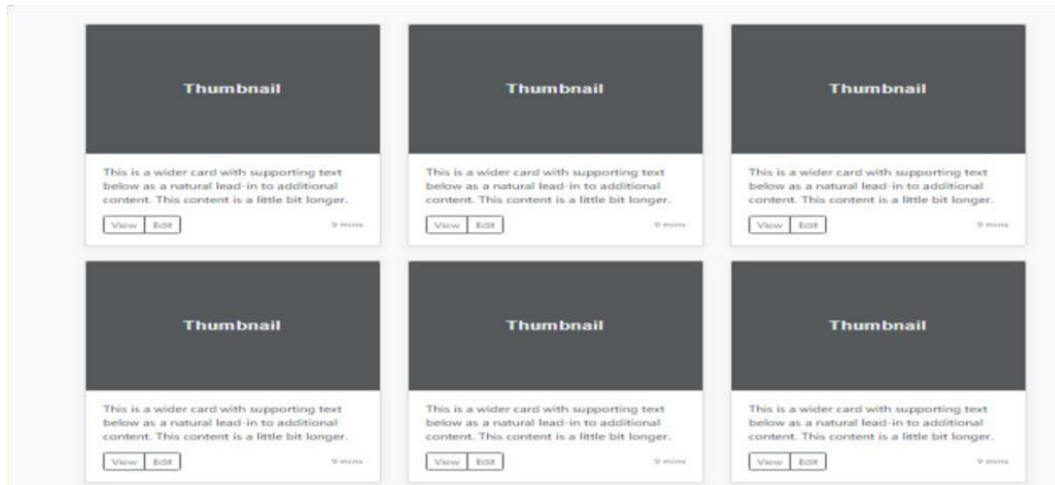
### Web Designing

#### MODULE: 1 (HTML)

- Are the HTML tags and elements the same thing?
- What are tags and attributes in HTML?
- What are void elements in HTML?
- What are HTML Entities?
- What are different types of lists in HTML? • What is the 'class' attribute in HTML?
- What is the difference between the 'id' attribute and the 'class' attribute of HTML elements?
- What are the various formatting tags in HTML?
- How is Cell Padding different from Cell Spacing?
- How can we club two or more rows or columns into a single row or column in an HTML table?
- What is the difference between a block-level element and an inline element?
- How to create a Hyperlink in HTML?
- What is the use of an iframe tag?
- What is the use of a span tag? Explain with example?
- How to insert a picture into a background image of a web page?
- How are active links different from normal links?
- What are the different tags to separate sections of text?
- What is SVG?
- What is difference between HTML and XHTML?
- What are logical and physical tags in HTML?

## **MODULE: 2 (CSS and CSS 3)**

- What are the benefits of using CSS?
- What are the disadvantages of CSS?
- What is the difference between CSS2 and CSS3?
- Name a few CSS style components
- What do you understand by CSS opacity?
- How can the background color of an element be changed?
- How can image repetition of the background be controlled?
- What is the use of the background-position property?
- Which property controls the image scroll in the background?
- Why should background and color be used as separate properties?
- How to center block elements using CSS1?
- How to maintain the CSS specifications?
- What are the ways to integrate CSS as a web page?
- What is embedded style sheets?
- What are the external style sheets?
- What are the advantages and disadvantages of using external style sheets?
- What is the meaning of the CSS selector?
- What are the media types allowed by CSS?
- What is the rule set?
- Create Layouts



## MODULE: 3 (HTML 5)

- What are the new tags added in HTML5?
- How to embed audio and video in a webpage?
- Semantic element in HTML5?
- Canvas and SVG tags

## MODULE: 4 (JavaScript Basic & DOM)

- What is JavaScript?
- What is the use of isNaN function?
- What is negative Infinity?
- Which company developed JavaScript?
- What are undeclared and undefined variables?
- Write the code for adding new elements dynamically?
- What is the difference between ViewState and SessionState?
- What is === operator?
- How can the style/class of an element be changed?
- How to read and write a file using JavaScript?
- What are all the looping structures in JavaScript?
- How can you convert the string of any base to an integer in JavaScript?
- What is the function of the delete operator?
- What are all the types of Pop up boxes available in JavaScript?
- What is the use of Void (0)?
- How can a page be forced to load another page in JavaScript?
- What are the disadvantages of using innerHTML in JavaScript?

## MODULE: 5 (JQuery Basic, Effects & Advance)

- What is JQuery?
- How to Apply CSS Using JQuery, How to Add Class and Remove Class in JQuery, JQuery Animation?
- How to create slider with animation?

## MODULE: 6 (Bootstrap Basic & Advance)

- What are the advantages of Bootstrap?
- What is a Bootstrap Container, and how does it work?
- What are the default Bootstrap text settings?
- What do you know about the Bootstrap Grid System?
- What is the difference between Bootstrap 4 and Bootstrap 5
- What is a Button Group, and what is the class for a basic Button Group?
- How can you use Bootstrap to make thumbnails?
- In Bootstrap 4, what is flexbox?
- How can one create an alert in Bootstrap?
- What is a bootstrap card and how would you create one?



## Advance JavaScript

### MODULE: 1 (Introduction and Code Quality)

- Write a program to Show an alert
- What will be the result for these expressions?

1.  $5 > 4$
2. `"apple" > "pineapple"`
3. `"2" > "12"`
4. `undefined == null`
5. `undefined === null`
6. `null == "\n0\n"`
7. `7. null === +"\n0\n"`

- Will alert be shown?

```
if ("0") { alert( 'Hello'); }
```

- What is the code below going to output? `alert( null || 2 || undefined );`
- The following function returns true if the parameter age is greater than 18. Otherwise it asks for a confirmation and returns its result:

function

checkAge(age)

{

if (age > 18) { return true; }

else {

// ...return confirm ('did parents allow you?');

}

}

- Replace Function Expressions with arrow functions in the code below:

Function

ask(question, yes, no)

```
{ if (confirm(question))yes();  
    else  
    no();  
}  
ask("Do you agree?", function()  
    { alert("You agreed."); },  
function() {  
    alert("You canceled the execution."); }  
}
```

## MODULE: 2 (Data Types and Objects)

- Write the code, one line for each action:

- a) Create an empty object user.
- b) Add the property name with the value John.
- c) Add the property surname with the value Smith.
- d) Change the value of the name to Pete.
- e) Remove the property name from the object.

- Is array copied?

```
let fruits = ["Apples", "Pear", "Orange"]; // push a new value into the "copy" let  
shoppingCart = fruits; shoppingCart.push("Banana"); // what's in fruits?
```

```
alert( fruits.length ); // ?
```

- Map to names

```
let john = { name: "John", age: 25 }; let pete = { name: "Pete", age: 30 }; let mary =  
{ name: "Mary", age: 28 }; let users = [ john, pete, mary ]; let names = /* ... your  
code */ alert( names ); // John, Pete, Mary
```

- Map to objects

```
let john = { name: "John", surname: "Smith", id: 1 }; let pete = { name: "Pete",  
surname: "Hunt", id: 2 }; let mary = { name: "Mary", surname: "Key", id: 3 }; let  
users = [ john, pete, mary ]; let usersMapped = /* ... your code ... */
```

```
/*
```

```
usersMapped = [
```

```
  { fullName: "John Smith", id: 1 },
```

```
  { fullName: "Pete Hunt", id: 2 },
```

```
  { fullName: "Mary Key", id: 3 }
```

```
]
```

```
*/ alert( usersMapped[0].id ) // 1 alert( usersMapped[0].fullName ) // John Smith
```

- Sum the properties There is a salaries object with arbitrary number of salaries. Write the function `sumSalaries(salaries)` that returns the sum of all salaries using `Object.values` and the `for..of` loop. If salaries is empty, then the result must be 0.

```
let salaries = {
```

```
  "John": 100,
```

```
  "Pete": 300,
```

```
  "Mary": 250
```

```
};
```

```
alert( sumSalaries(salaries) ); // 650
```

- Destructuring assignment We have an object: Write the Destructuring assignment that reads:
  - a) Name property into the variable name.
  - b) Year's property into the variable age.
  - c) isAdmin property into the variable isAdmin (false, if no such property)
  - d) let user = { name: "John", years: 30};
- Turn the object into JSON and back Turn the user into JSON and then read it back into another variable.

```
user = { name: "John Smith", age: 35};
```

## **MODULE: 3 (Document, Event and Controls)**

- Create a program to hide/show the password
- Create a program that will select all the classes and loop over and whenever i click the button the alert should show
- Create a responsive header using proper JavaScript
- Create a form and validate using JavaScript
- Create a modal box using css and Js with three buttons
- Use external js library to show slider
- Prevent the browser when i click the form submit button

## **MODULE: 4 (New Request)**

- What is JSON
- What is promises
- Write a program of promises and handle that promises also
- Use fetch method for calling an api <https://fakestoreapi.com/products>
- Display all the product from the api in your HTML page





## React Js

### MODULE: 1

- HTML-CSS Login Registration page

### MODULE: 2 (JavaScript Essentials)

- Calculate subtotal price of quantity in JavaScript?

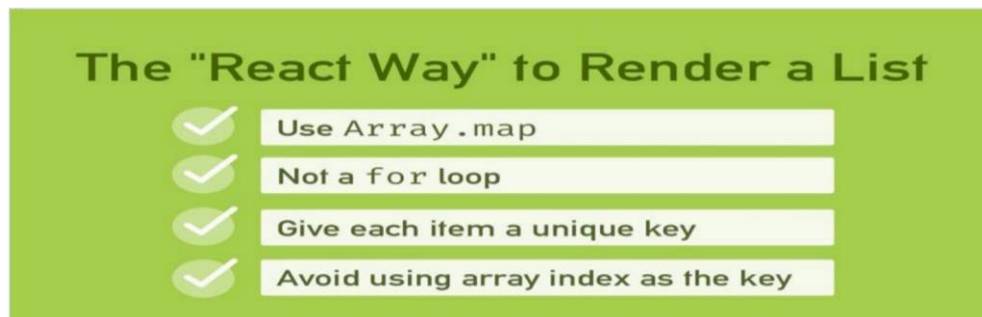
Product Info	Quantity	Price (per unit)	Price (subtotal)	
 Fortunata Window Hardware - Decorative Holdbacks - Mocha	2	\$29.99	\$59.98	Remove
 Woven Trellis Window Hardware - Clip Rings - Bronze	1	\$12.99	\$12.99	Remove
			\$72.97	

- What is JavaScript Output method?
- How to used JavaScript Output method?
- How to used JavaScript Events to do all examples?

### MODULE: 3 (JavaScript Essentials)

- What is React Js?
- What is NPM in React Js?
- What is Role of Node Js in react Js?
- What is CLI command In React Js?

- What is Components in React Js?
- What is Header and Content Components in React Js?
- How to install React Js on Windows, Linux Operating System? How to install NPM and How to check version of NPM?
- How to check version of React Js?
- How to change in components of React Js?
- How to Create a List View in React Js?



- Create Increment decrement state change by button click?

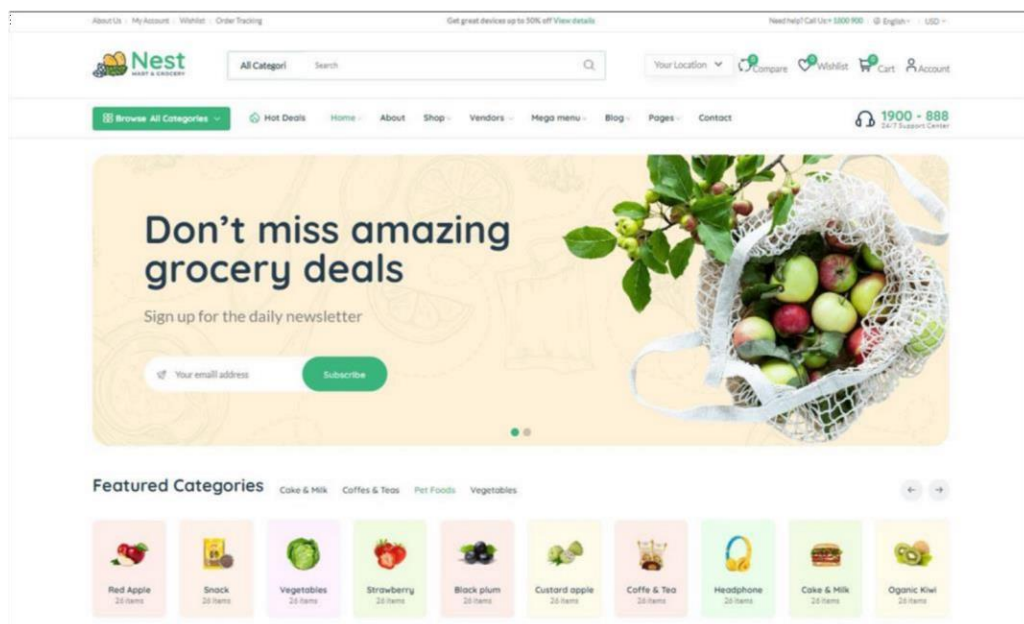


## MODULE: 4 (List and Hooks)

- Explain Life cycle in Class Component and functional component with Hooks

## MODULE: 5 (Styling & Advance React)

- Create Shopping site home page with Styled- component

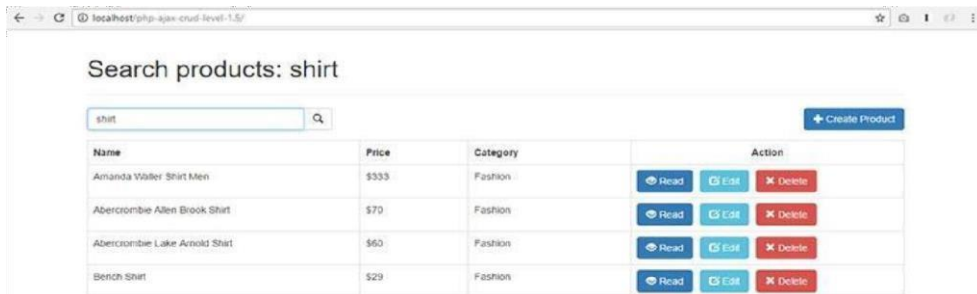


## MODULE: 6 (React Router)

- Create React app with modules and lazy loading (Admin-user module with child Router and outlet)

## MODULE: 7 (React – Applying Redux)

- What is Redux?
- What is Redux Thunk used for?
- What is Pure Component? When to use Pure Component over Component?
- What is the second argument that can optionally be passed to setState and what is its purpose?
- Create a Table and Search data from table using React Js?



The screenshot shows a web browser window with the URL 'localhost/php-ajax-crud-level-1.5/'. The page title is 'Search products: shirt'. Below the title is a search input field containing 'shirt' and a magnifying glass icon. To the right of the search field is a blue button labeled '+ Create Product'. Below the search field is a table with the following data:

Name	Price	Category	Action
Amanda Waller Shirt Men	\$333	Fashion	<a href="#">Read</a> <a href="#">Edit</a> <a href="#">Delete</a>
Abercrombie Allen Brook Shirt	\$70	Fashion	<a href="#">Read</a> <a href="#">Edit</a> <a href="#">Delete</a>
Abercrombie Lake Arnold Shirt	\$60	Fashion	<a href="#">Read</a> <a href="#">Edit</a> <a href="#">Delete</a>
Berich Shirt	\$29	Fashion	<a href="#">Read</a> <a href="#">Edit</a> <a href="#">Delete</a>

- Create Login registration with CRUD Application using API (Redux)