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GROUP ASSIGNMENT

LEVEL 4

COMP40004:

WEB DEVELOPMENT AND OPERATING SYSTEMS II

Hand Out Date: 7th July 2024

Hand In Date: 9th August 2024

CB Number: CB008920

INSTRUCTION TO CANDIDATES

- 1. Students are advised to comply referencing with Harvard Referencing Style. Preferably, use Mendeley or EndNote.**
- 2. Late submission will be awarded zero (0) unless extenuating circumstances (EC) are upheld.**
- 3. Cases of plagiarism will be penalized.**
- 4. The assignment should be submitted as softcopy via LMS**

Introduction

This report is to present the overview of the website I developed, designed to provide a user-friendly and functional platform for “Groceries Supermarket”. The primary objective of this assignment is to create a responsive and functional website using HTML, CSS and JavaScript.

I conducted HTML validation, CSS validation, WAVE and lighthouse tests. The results of these tests are included in this report. The report also has activity diagrams illustrating the functionality of each JavaScript function and details about the test cases and their status.

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Website link - <https://praveenmalindasiri.github.io/website/>

1. HTML Validation

1. Home Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/>

Checker Input

Show source outline image report

Check by

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Warning** This document appears to be written in English. Consider adding `lang="en"` (or variant) to the `html` start tag.
From line 1, column 16; to line 3, column 6
TYPE html>~~head>~~<
For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error** Bad value `30px` for attribute `width` on element `img`; Expected a digit but saw `p` instead.
From line 36, column 39; to line 36, column 107
`= "submit"></button>`

3. **Error** No `>` element in scope but a `>` and tag seen

2. Order Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/ClientServices/order.html>

Checker Input

Show source outline image report

Check by

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Warning** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.
From line 1, column 16; to line 2, column 6
TYPE html>~~head>~~<
For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error** Element `option` without attribute `label` must not be empty.
From line 48, column 62; to line 48, column 70
`selected></option>`

3. **Error** Element `label` without attribute `for` must not be empty.

3. Register Page

Nu Html Checker

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Showing results for <https://praveenmalindasiri.github.io/website/ClientServices/register.html>

Checker Input

Show source outline image report

Check by

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Warning** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.

From line 1, column 16; to line 2, column 6

TYPE `html><head><`

For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).

If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error** Bad value `for attribute "content"` on element `meta`: Empty literal.

From line 8, column 5; to line 8, column 42

`dt><meta http-equiv="refresh" content=""></head>`

4. About Us Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/ClientServices/about.html>

Checker Input

Show source outline image report

Check by

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Warning** This document appears to be written in English. Consider adding `lang="en"` (or variant) to the `html` start tag.

From line 1, column 16; to line 2, column 6

TYPE `html><head><`

For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).

If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error** Bad value `600px` for attribute `width` on element `iframe`: Expected a digit but saw `p` instead.

From line 111, column 29; to line 111, column 366

`<td><iframe src="https://www.google.com/maps/embed?pb=!1m18!1m1!1m3!1d2797.1912725565103!2d80.362963340..negala!5e0!3m2!1sen!2slk!4v1713004170989!5m2!1sen!2slk"`

`width="600px" height="350px" loading="lazy"></td>`

5. Pay Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/ClientServices/pay.html>

Checker Input

Show source outline image report

Check by address

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Warning** Consider adding a `lang` attribute to the `html` start tag to declare the language of this document.
From line 1, column 16; to line 2, column 6
TYPE html>~~head>~~ <
For further guidance, consult [Declaring the overall language of a page](#) and [Choosing language tags](#).
If the HTML checker has misidentified the language of this document, please [file an issue report](#) or [send e-mail to report the problem](#).

2. **Error** Attribute `min` not allowed on element `input` at this point.
From line 47, column 29; to line 47, column 106
`<th><input type="text" required min="0" maxlength="10" minlength="10" id="c_pnum"></th>+</tr>`
Attributes for element `input`:
[Global attributes](#)

6. Vegetable Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/Products/Vegetable.html>

Checker Input

Show source outline image report

Check by address

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Error** Bad value `30px` for attribute `width` on element `img`: Expected a digit but saw `p` instead.
From line 45, column 43; to line 45, column 106
`= "submit"></button>`

2. **Error** Element `br` not allowed as child of element `ul` in this context. (Suppressing further errors from this subtree.)
From line 68, column 30; to line 68, column 33
`
+`
Contexts in which element `br` may be used:
Where `phrasing_content` is expected.
Content model for element `ul`:
Zero or more `li` and `script-supporting` elements.

7. Dairy Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/Products/Milk.html>

Checker Input

Show source outline image report [Options...](#)

Check by [address](#) [file](#)

[Check](#)

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.
[Message Filtering](#)

1. **Error** Bad value `30px` for attribute `width` on element `img`: Expected a digit but saw `p` instead.
From line 45, column 39; to line 45, column 102
`=></button>`

2. **Error** Bad value `../Products/Milk products/Ambewela Set Yoghurt.webp` for attribute `src` on element `img`: Illegal character in path segment: space is not allowed.
From line 63, column 17; to line 63, column 131
``

3. **Warning** Section lacks heading. Consider using `h2 - h6` elements to [add identifying headings to all sections](#), or else use a `div` element instead for any cases where no heading is needed.

8. Baking and Cooking Ingredients

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/Products/baking.html>

Checker Input

Show source outline image report [Options...](#)

Check by [address](#) [file](#)

[Check](#)

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.
[Message Filtering](#)

1. **Error** Bad value `30px` for attribute `width` on element `img`: Expected a digit but saw `p` instead.
From line 45, column 43; to line 45, column 106
`=></button>`

2. **Error** Bad value `BAC/Edinborough B.B.Q Sauce.webp` for attribute `src` on element `img`: Illegal character in path segment: space is not allowed.
From line 59, column 17; to line 59, column 115
``

3. **Warning** Section lacks heading. Consider using `h2 - h6` elements to [add identifying headings to all sections](#), or else use a `div` element instead for any cases where no heading is needed.

9. Meats Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/Products/meats.html>

Checker Input

Show source outline image report

Check by

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Error** Bad value `30px` for attribute `width` on element `img`: Expected a digit but saw `p` instead.
From line 45, column 39; to line 45, column 102
`=submit"></butt`
2. **Error** Bad value `Meats/Beef Topsdie.webp` for attribute `src` on element `img`: Illegal character in path segment: space is not allowed.
From line 61, column 17; to line 61, column 95
``
3. **Warning** Section lacks heading. Consider using `h2 - h6` elements to [add identifying headings to all sections](#), or else use a `div` element instead for any cases where no heading is needed.

10. Fruits Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/Products/fruits.html>

Checker Input

Show source outline image report

Check by

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

1. **Error** Bad value `30px` for attribute `width` on element `img`: Expected a digit but saw `p` instead.
From line 45, column 43; to line 45, column 106
`=submit"></butt`
2. **Error** Bad value `Fruits/Apple - Green.webp` for attribute `src` on element `img`: Illegal character in path segment: space is not allowed.
From line 60, column 17; to line 60, column 98
``
3. **Warning** Section lacks heading. Consider using `h2 - h6` elements to [add identifying headings to all sections](#), or else use a `div` element instead for any cases where no heading is needed.

11. Skin – Care Page

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://praveenmalindasiri.github.io/website/Products/Skincare.html>

Checker Input

Show source outline image report [Options...](#)

Check by address [address](#) <https://praveenmalindasiri.github.io/website/Products/Skincare.html>

[Check](#)

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

[Message Filtering](#)

1. **Error** Bad value `30px` for attribute `width` on element `img`: Expected a digit but saw `p` instead.
From line 45, column 39; to line 45, column 102
`= "submit"></button>`

2. **Error** The `border` attribute on the `table` element is obsolete. [Use CSS instead.](#)
From line 60, column 17; to line 60, column 50
`<table id="skin-table" border="1"></table>`

3. **Error** Bad value `./Products/Skin care/Aurica Alovera Face Wash 1.webp` for attribute `src` on element `img`: Illegal character in path segment: space is not allowed.
From line 62, column 29; to line 62, column 149
``

2. CSS Validations

1. Home Page

W3C The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>

<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

2. Order Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/order.html> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/order.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

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</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

3. Register Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/register.html> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/register.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

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  </a>
</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

4. About Us Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/about.html> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/about.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

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  </a>
</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

5. Pay Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/pay.html> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/ClientServices/pay.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

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  </a>
</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

6. Vegetable Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/Vegetable.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

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<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

7. Dairy Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/Milk.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#) !

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

8. Baking and Cooking Ingredients

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/baking.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

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<p>    <a href="https://jigsaw.w3.org/css-validator/check/referer">
        
    </a>
</p>

<p>    <a href="https://jigsaw.w3.org/css-validator/check/referer">
        
    </a>
</p>
```

9. Meats Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/meats.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

To show your readers that you've taken the care to create an interoperable Web page, you may display this icon on any page that validates. Here is the XHTML you could use to add this icon to your Web page:

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    </a>
</p>

<p>    <a href="https://jigsaw.w3.org/css-validator/check/referer">
        
    </a>
</p>
```

10. Fruits Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/fruits.html> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/fruits.html> (CSS level 3 + SVG)

Congratulations! No Error Found.

This document validates as [CSS level 3 + SVG](#)!

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</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

11. Skin – Care Page

The W3C CSS Validation Service
W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/Skincare.html> (CSS level 3 + SVG)

Jump to: [Validated CSS](#)

W3C CSS Validator results for <https://praveenmalindasiri.github.io/website/Products/Skincare.html> (CSS level 3 + SVG)

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</p>
```



```
<p>
  <a href="https://jigsaw.w3.org/css-validator/check/referer">
    
  </a>
</p>
```

3. WAVE Testing

1. Home Page

The following apply to the entire page:

The WAVE tool interface shows the following results for the Home Page:

Category	Count
Errors	10
Contrast Errors	0
Alerts	5
Features	19
Structural Elements	55
ARIA	0

Summary details button: View details >

Code editor: </> Code

Accessibility issues found on the page include:

- 10 Errors (highlighted in red)
- 5 Alerts (highlighted in yellow)
- 19 Features (highlighted in green)
- 55 Structural Elements
- 0 ARIA

The page content includes:
"Delivering Excellence, Ensuring Quality - Every Product, Every Time."
Welcome to Groceries Supermarket, your friendly grocery store in Sri Lanka! With over 20 years of experience, we're dedicated to serving our community with top-notch products and services. We have everything you need ensuring you have access to quality items every time you shop with us. But Groceries is more than just a place to pick up groceries. We're committed to engaging with and supporting our community, whether through local events, charity initiatives, or simply being the place you need us. Accessibility is key at Groceries. Whether you prefer to shop in-store or online, we've got you covered with our easy-to-use website and mobile app. Come visit us today and see why we're the go-to destination for all your grocery needs!"

2. Order Page

The following apply to the entire page:

The WAVE tool interface shows the following results for the Order Page:

Category	Count
Errors	16
Contrast Errors	6
Alerts	4
Features	6
Structural Elements	25
ARIA	0

Summary details button: View details >

Code editor: </> Code

Accessibility issues found on the page include:

- 16 Errors (highlighted in red)
- 4 Alerts (highlighted in yellow)
- 6 Features (highlighted in green)
- 25 Structural Elements
- 0 ARIA

The page content includes:
Orders
Welcome to Groceries Supermarket's easy-to-use order page! Browse our wide range of products with simple categories or use our search bar to find what you need in no time. Just click to add items to your cart, review your selections, and proceed to checkout for a hassle-free experience. With secure payment options and flexible shipping, ordering groceries online has never been simpler. Try it now and see for yourself!

Vegetables
Product:

Dairy Products
Product:

scroll up button: *scroll up*

3. Register Page

The following apply to the entire page:

The screenshot shows the WAVE web accessibility evaluation tool interface. On the left, there's a summary panel with various accessibility metrics. On the right, the actual website content is displayed. The website has a dark blue header with navigation links: Home, Products, Orders, Register, and About. Below the header, there's a welcome message for the registration page. A large teal-colored modal window is open, titled "Registration Form". Inside the modal, there are fields for "User Info" and a "Code" section. A "scroll up" button is visible on the right side of the modal.

Category	Count
Errors	30
Contrast Errors	0
Alerts	14
Features	6
Structural Elements	28
ARIA	0

4. About us Page

The following apply to the entire page:

The screenshot shows the WAVE web accessibility evaluation tool interface. On the left, there's a summary panel with various accessibility metrics. On the right, the actual website content is displayed. The website has a dark blue header with navigation links: Home, Products, Orders, Register, and About. Below the header, there's a section titled "About Us". The content describes the company as a one-stop destination for groceries in Sri Lanka, highlighting its commitment to convenience and quality. A "scroll up" button is visible on the right side of the page.

Category	Count
Errors	7
Contrast Errors	4
Alerts	11
Features	16
Structural Elements	35
ARIA	0

5. Pay Page

The following apply to the entire page:

Total Price Rs.0/=

NO Order details. Please select items.

Customer Name:

Address:

Mobile:

Email:

Payment Method(Online): Visa

Visa

Debit

scroll up

6. Vegetables Page

The following apply to the entire page:

Vegetables

Dairy

Baking and Cooking Ingredients

Meats

Fruits

Skin-Care

Search here

Vegetables

Welcome to Groceries Supermarket's Vegetable Oasis. Dive into our vibrant selection of farm-fresh produce, carefully curated to inspire your culinary creations. From crunchy greens to colorful peppers, succulent tomatoes to exotic root vegetables, we have everything you need to add a healthy and flavorful touch to your meals. Our Vegetable section is your go-to destination for quality ingredients that will elevate your dishes to new heights. Explore today and discover the joy of cooking with the freshest

scroll up

7. Dairy Page

The screenshot shows the WAVE web accessibility evaluation tool interface. On the left, the 'Summary' section displays various accessibility metrics:

- Errors: 4
- Contrast Errors: 18
- Alerts: 16
- Features: 20
- Structural Elements: 13
- ARIA: 0

A 'View details' button is located at the bottom of this section. On the right, the actual website content for the 'Dairy Products' page is shown. The page has a dark blue header with a logo, navigation links for Home, Products, Orders, Register, and About, and a search bar. Below the header is a navigation menu with categories: Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits, and Skin-Care. A sidebar on the right contains a 'scroll up' button. The main content area features an

Dairy Products

 heading and a welcome message about the variety of dairy products available.

8. Baking And Cooking Ingredients

The screenshot shows the WAVE web accessibility evaluation tool interface. The 'Summary' section displays the following metrics:

- Errors: 4
- Contrast Errors: 16
- Alerts: 14
- Features: 18
- Structural Elements: 13
- ARIA: 0

A 'View details' button is located at the bottom of this section. On the right, the website content for the 'Baking And Cooking Products' page is shown. It features a similar dark blue header with a logo, navigation links, and a search bar. The navigation menu includes Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits, and Skin-Care. A sidebar on the right contains a 'scroll up' button. The main content area features an

Baking And Cooking Products

 heading and a welcome message about the collection of ingredients available.

9. Fruits Page

The following apply to the entire page:

Powered by WebAIM

Address: https://praveenmalindasiri.github.io/website

Styles: OFF ON

Summary

Category	Count
Errors	4
Contrast Errors	16
Alerts	14
Features	18
Structural Elements	13
ARIA	0

[View details](#)

Fruits

Welcome to Groceries Supermarket's Fruit Haven, your destination for the freshest and most delicious fruits. From crisp apples to juicy oranges to exotic mangoes and refreshing berries, our selection is handpicked to ensure top quality and taste. Whether you're preparing a healthy snack, a vibrant salad, or a decadent dessert, our Fruit Haven has everything you need to add a burst of natural sweetness to your meals. Shop with confidence and enjoy the finest fruits, sourced from trusted growers right here at [REDACTED]

Code

10. Meat Page

The following apply to the entire page:

Powered by WebAIM

Address: https://praveenmalindasiri.github.io/website

Styles: OFF ON

Summary

Category	Count
Errors	4
Contrast Errors	6
Alerts	17
Features	19
Structural Elements	13
ARIA	0

[View details](#)

Meat

Welcome to Groceries Supermarket's Meat Corner, where quality and freshness are our top priorities. Explore our wide selection of premium meats, including tender beef, succulent pork, juicy poultry, and fresh seafood. Each cut is carefully sourced from local suppliers to ensure you get the best flavor and nutrition for your meals. Whether you're planning a family barbecue, a hearty stew, or a gourmet dinner, our Meat Corner has everything you need to create delicious and satisfying dishes. Shop with confidence and enjoy the finest meats, sourced from trusted suppliers right here at [REDACTED]

Code

11. Skin – Care Page

The screenshot shows the WAVE web accessibility evaluation tool interface. The address bar shows <https://praveenmalindasiri.github.io/website/>. The summary panel on the left lists the following metrics:

- Errors: 4
- Contrast Errors: 6
- Alerts: 25
- Features: 18
- Structural Elements: 13
- ARIA: 0

The main page preview shows a navigation bar with Home, Products, Orders, Register, and About. Below the navigation is a grid of categories: Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits, and Skin-Care. A search bar and a toolbar with icons for file operations are also visible. The page content includes an

Skin Care Products

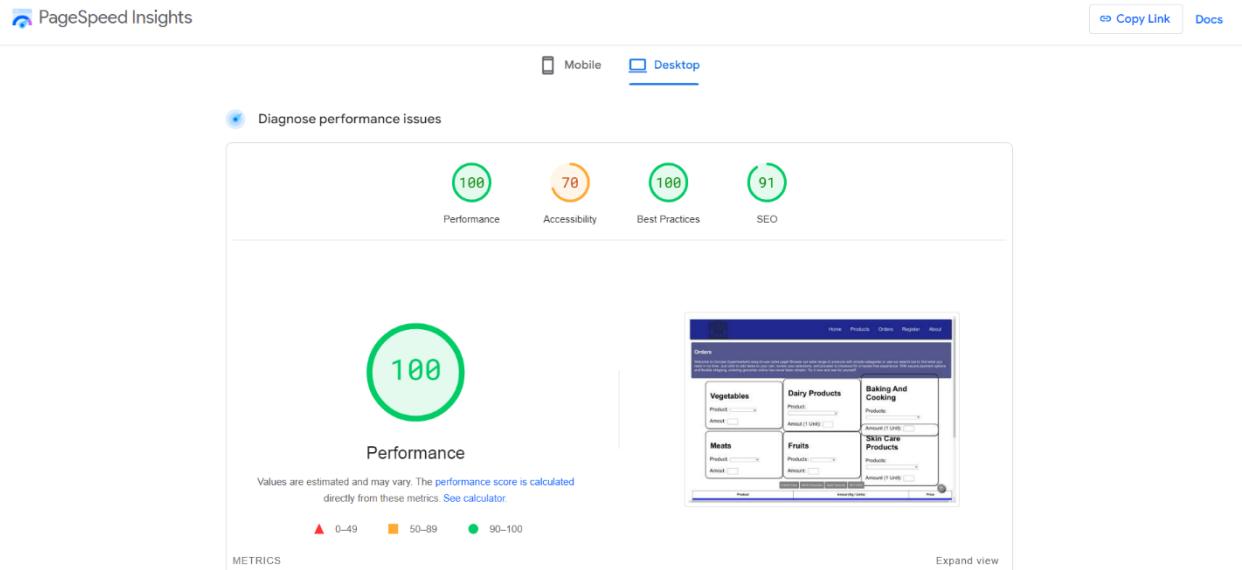
 section with a welcome message and a code editor.

4. Lighthouse Testing

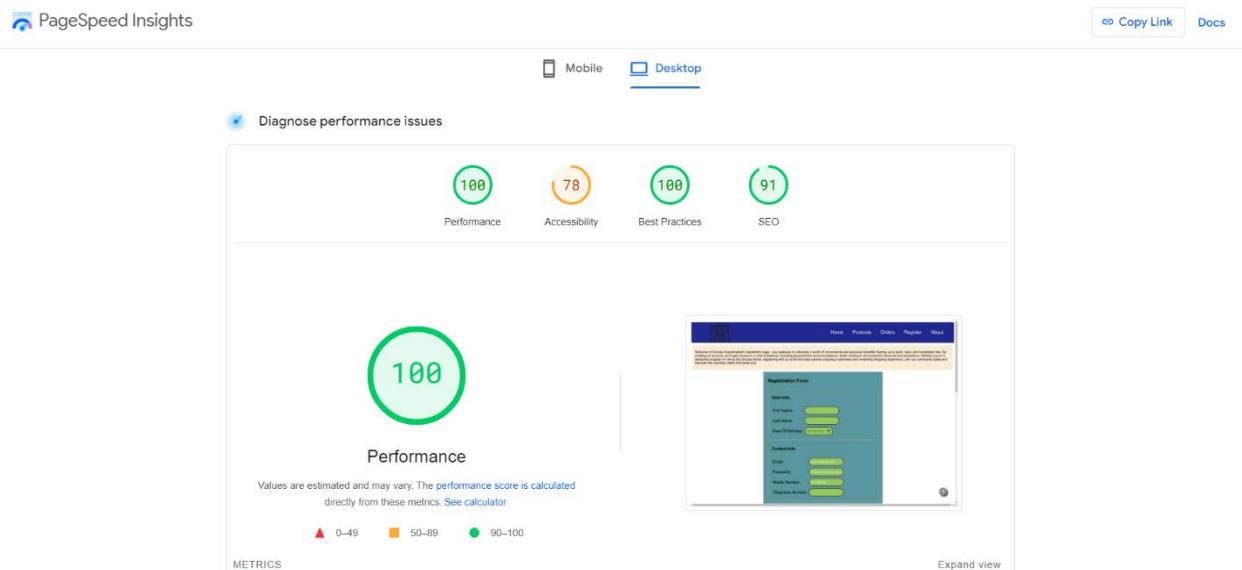
1. Home Page

The screenshot shows the PageSpeed Insights report for the Home Page. The top navigation includes a back arrow, a refresh button, and tabs for Mobile and Desktop, with Desktop selected. A checkbox for "Diagnose performance issues" is checked. The main dashboard displays four scores: Performance (75), Accessibility (87), Best Practices (96), and SEO (91). Below the scores, there's a large circular "Performance" score of 75. A note states: "Values are estimated and may vary. The performance score is calculated directly from these metrics. See calculator." A legend indicates that the score range is 0-49 (red), 50-89 (orange), and 90-100 (green). To the right, a screenshot of the website homepage is shown, featuring a banner with "Delivering Excellence. Getting Quality. Every Product. Every Time." and a list of product categories. A "Expand view" link is at the bottom right of the screenshot.

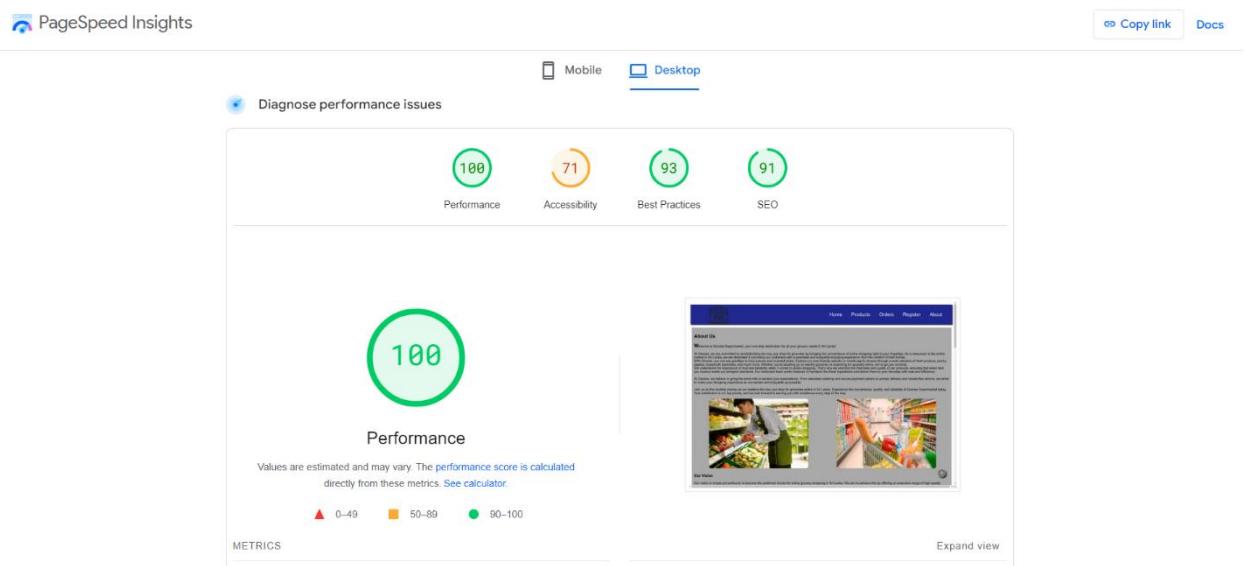
2. Order Page



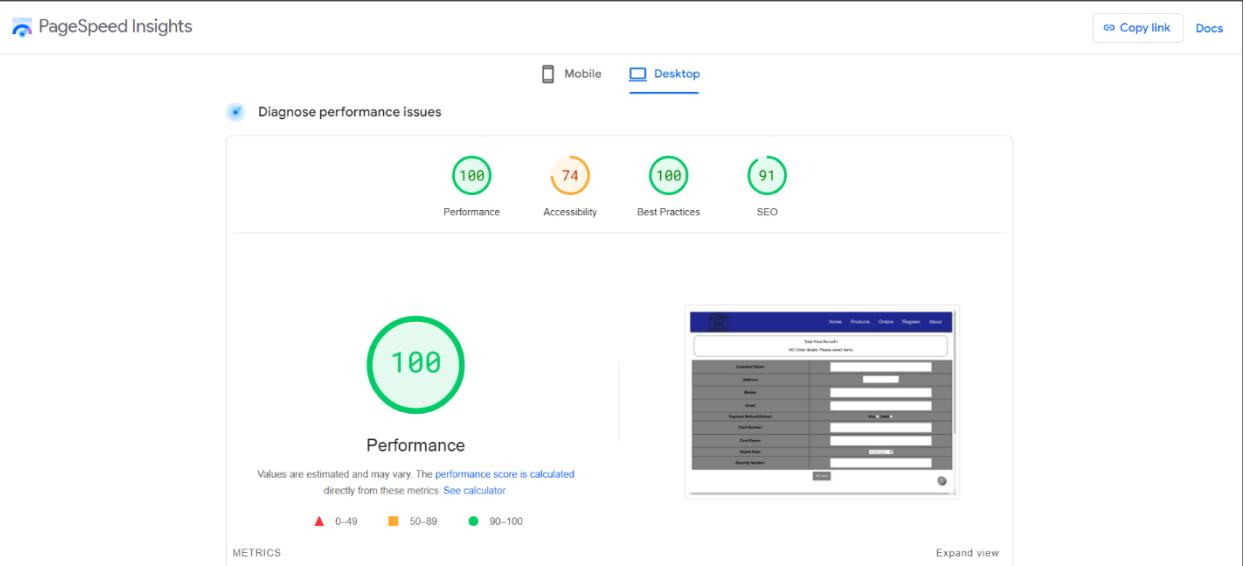
3. Register Page



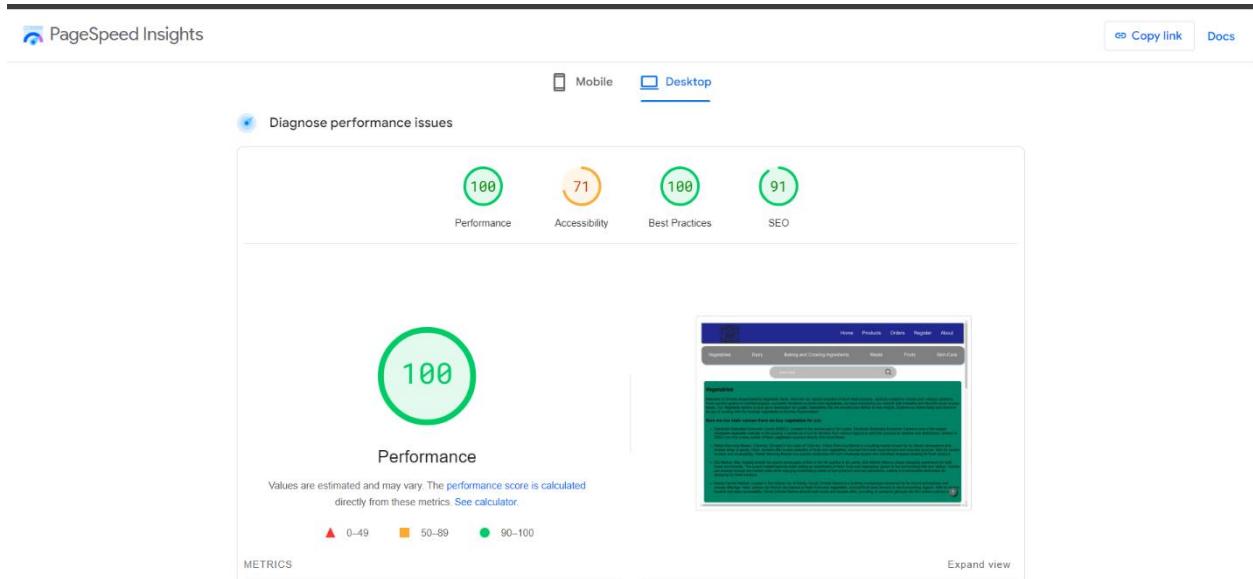
4. About Us Page



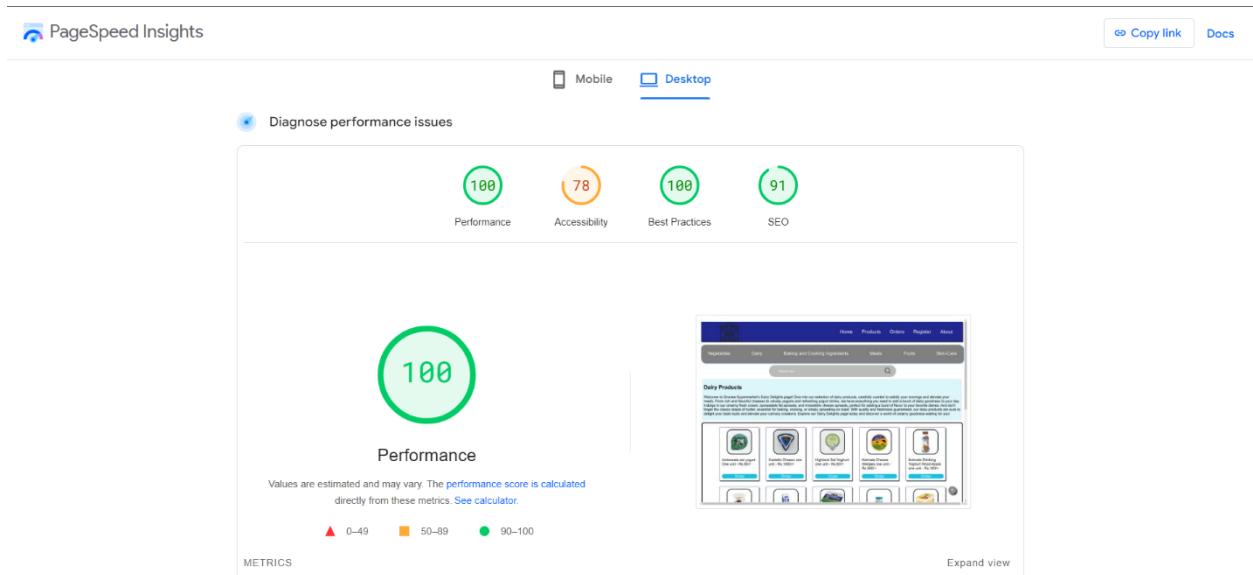
5. Pay Page



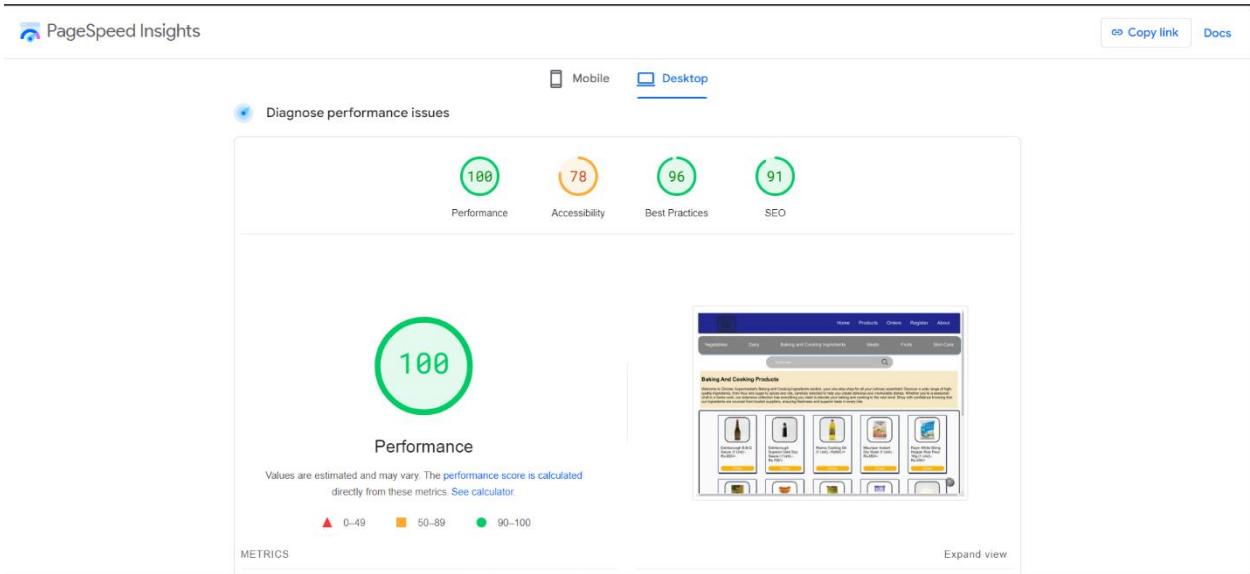
6. Vegetables Page



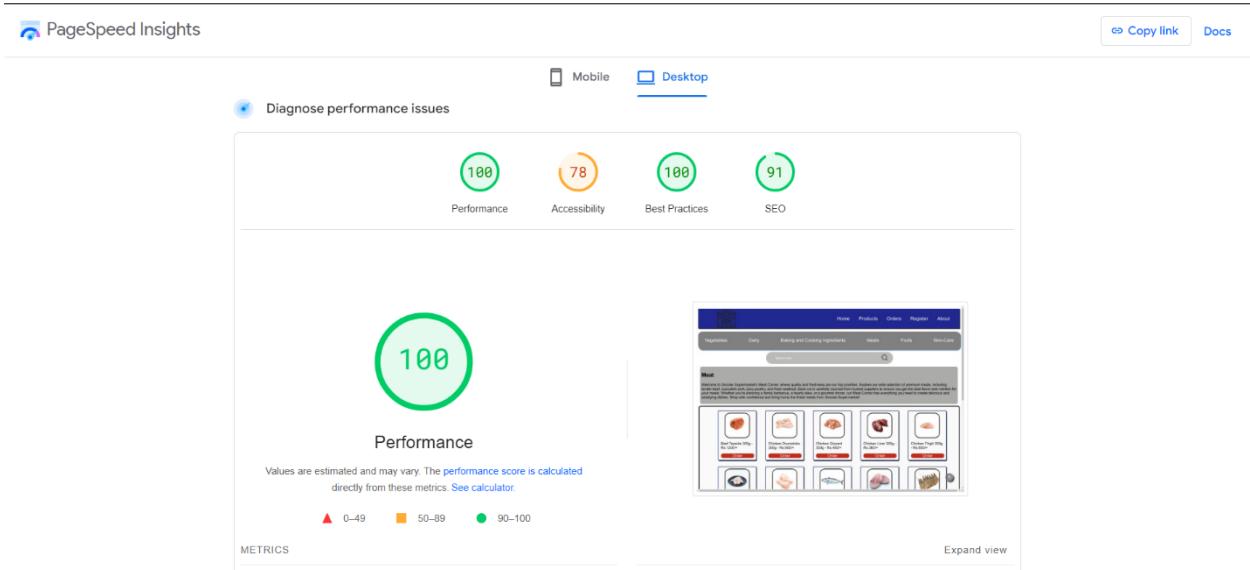
7. Dairy Page



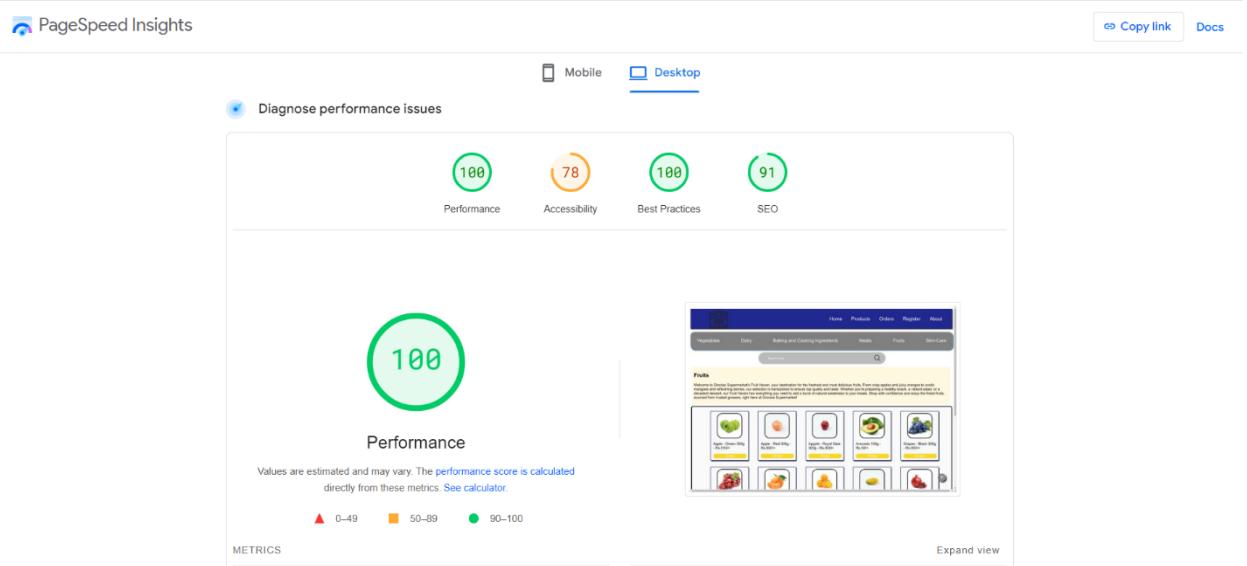
8. Baking And Cooking Ingredients



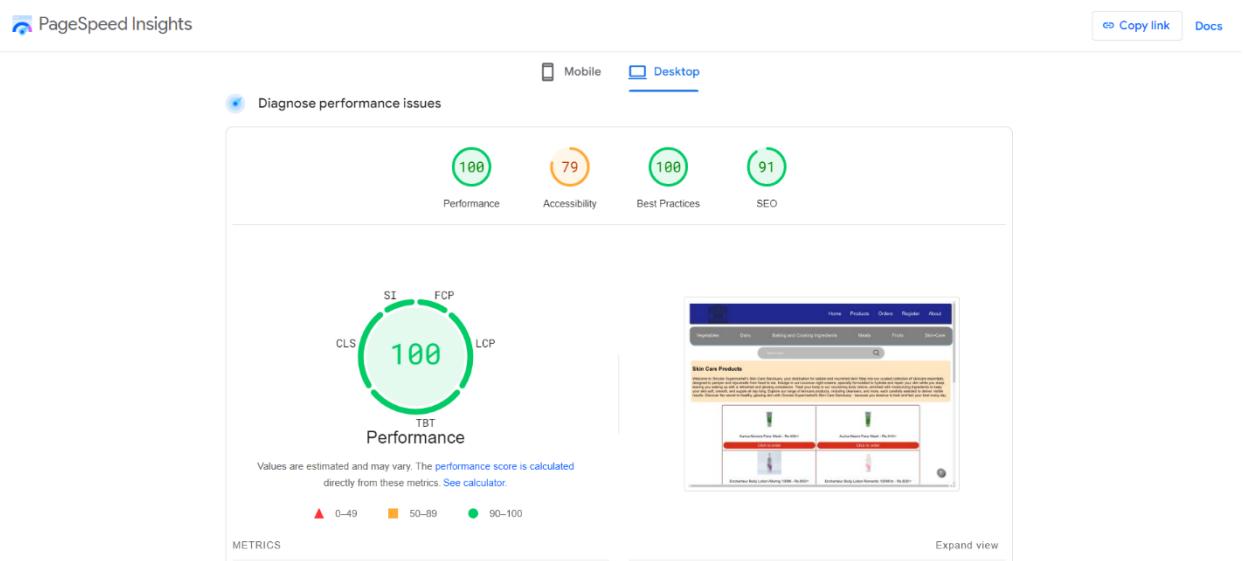
9. Meats Page



10. Fruits Page

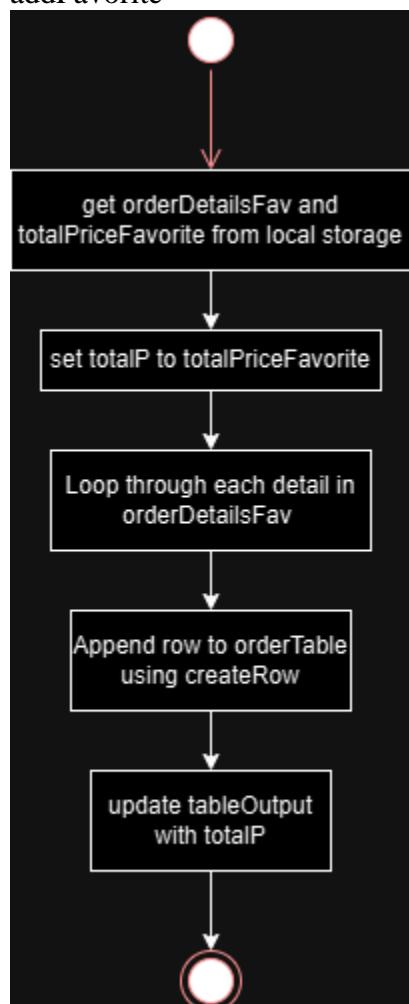


11. Skin – Care Page

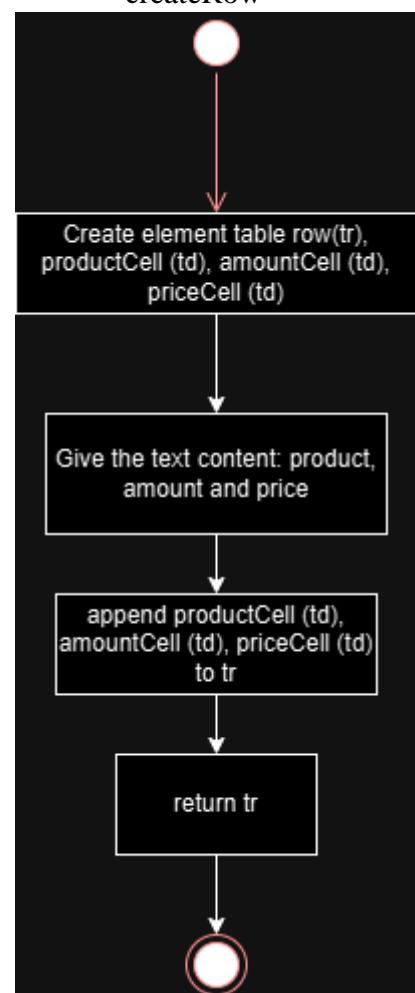


5. Activity Diagrams

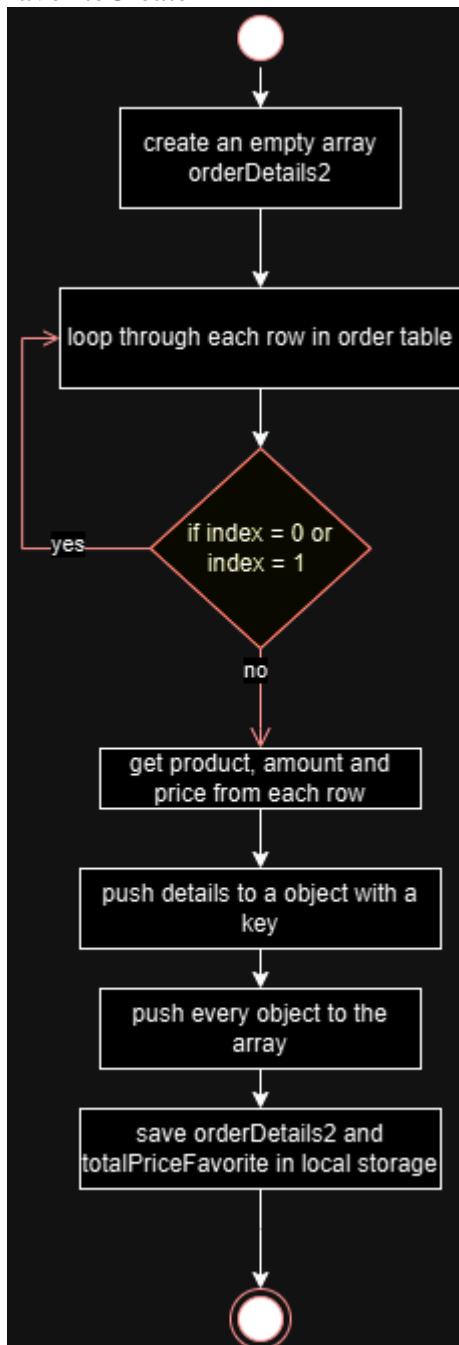
addFavorite



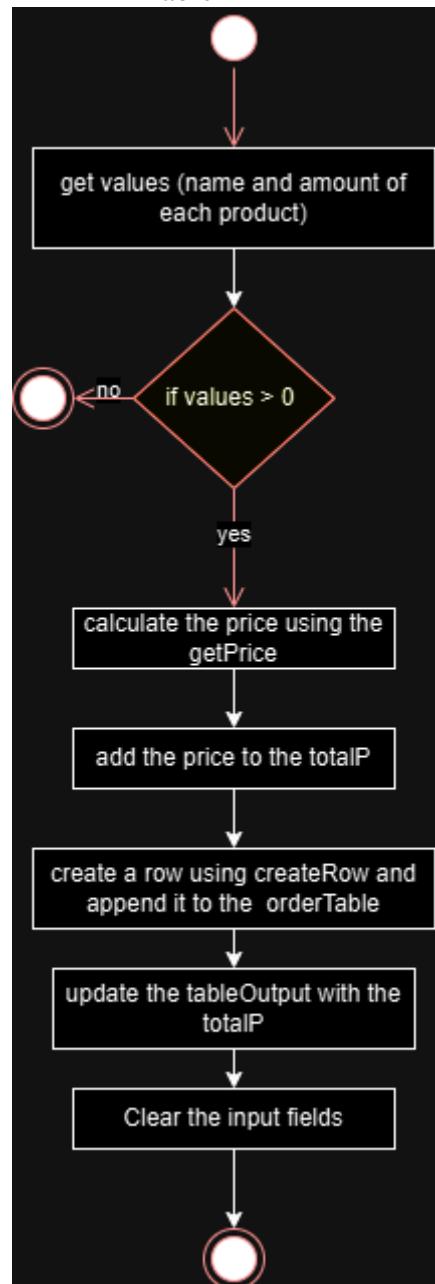
createRow



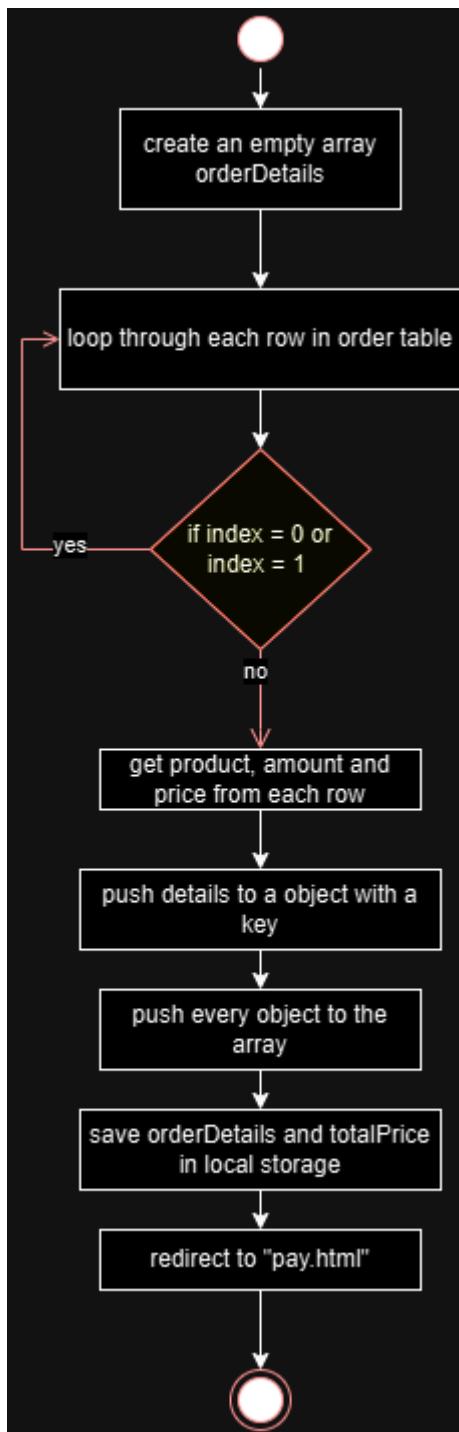
favoriteCreate



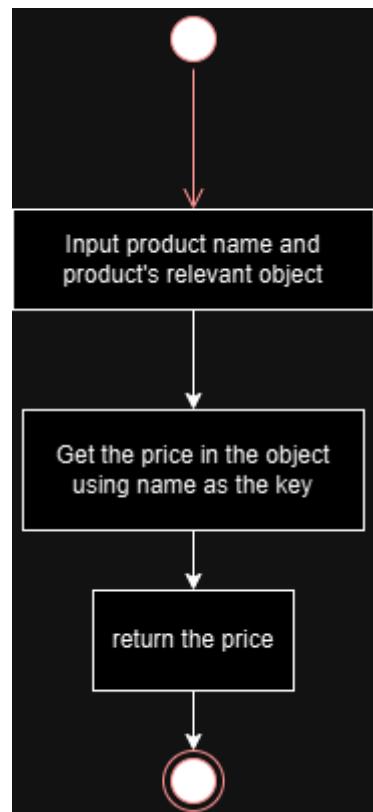
fillTable



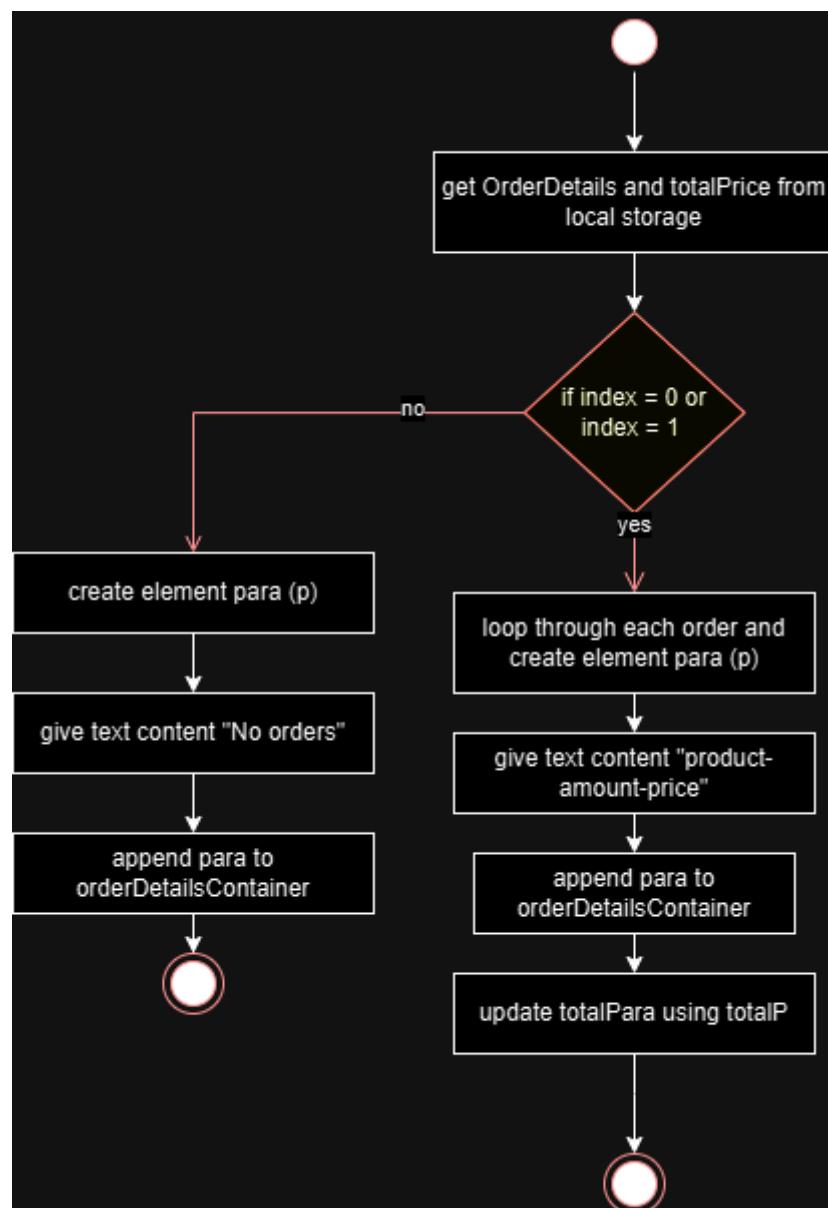
getOrderDetails



getPrice



orderDetailsPay



6. Functional Tests

1.

A	B	C	D	E	F	G	H
TestcaseID	Category	Description	Prerequisites	Test Procedure	Input Data	Expected Results	Pass/Fail
1	Add items to the table.	1.Select items you want from the product categories. Give an amount. Submit.	Selecting an item and give an amount.	1. Get the item name and amount(eg: vegetable.value, vegetableAmount.value). If the item and the amount are selected, first get the price per kilogram or a unit using the "getPrice" function. Then multiply it by the amount. When the item name and the relevant object are passed as parameters to the getPrice function it use the item name as the key and get the value of that key from the object. 2. Then pass the item name, amount and price to the "createRow" function as parameters. This function will add the parameters as text content to the created cells and append those cells to the row returning that row. 3. Then append that created row to the table. Finally, every time the item price will be added to the total price variable and add it to the first row of the table.	Product: Carrot, Amount: 1	Item, amount and the price should be successfully added to the table. And show the total price should be added to the first row.	PASS
2	Buy now	1. Direct to the pay page (with all the orders).	NONE	1. Read all the rows except first(table header) and second(total price). Get text content of each row then store the first cell's text content as product, the second cell's text content as amount and the last cell's text content as the price. 2. Then push these three to an object and store all rows in an array. Then convert the array to a JSON string and store it in the local storage. 3. Finally get the total price and do the same then direct to the pay page (function is "getorderDetails"). On the pay page get the order details from local storage as java script object. If the order details are not null for each object in the array, create a paragraph and give the product, amount and price (eg: object is X, X.product is the product name). else show no orders. Do the same to the total price.	N/A	Should direct to the pay page and show the orders and the total. If no orders should ask to order products.	PASS

2.

A	B	C	D	E	F	G	H
3	Add to favourite	1. Save the orders in the table as favorite	Should have orders in the table.	1. Use the same method to get and store the table orders. (Read all the row except the first and the second, get each row cell details and store them in an object, store those objects in an array) 2. Save order details and total price as a JSON string using a different key name.	Orders in the table.	Should save every order in the table in local storage.	PASS
4	Apply favourite	1. Apply previous saved order as a favorite.	Should have a saved favorite.	1. Get the save favorite from the local storage and parse it as a JSON object to make the work easy. Save it in a variable. 2. Get the total price and give that value to the 'totalP' variable unless you can't show the total on pay page. 3. For each order(object) in the "orderDetails" array, get the three values using the keys(product, amount and price / keys are order.product, order.amount and order.price). Pass these value to the "createRow" function and get the table row. 4. Append those row to the table. Update the total.	N/A	Should fill the order table using the saved favorite orders from the local storage.	PASS
5	Paying order	1. Get customer details and payment details. Shows current order details. Delivery date and Thank.	Customer details, payment (card) details	1. Show the order details and the total Price. If no orders prompt the user to order something. 2. "thank" function check if user has filled all the fields in the form. If not, prompt user to fill the form completely. 3. Get the ordering date and calculate the delivery date. 4. Show the name, address, Order date and the delivery date.	Customer details like name, address, phone number and email. Payment details like card number, security code, card holder name, and expire date.	Should check all the form's are filled. Then give the delivery date and thank.	PASS

3. The Excel File



Test Case
Sample.xlsx

7. Responsiveness Testing

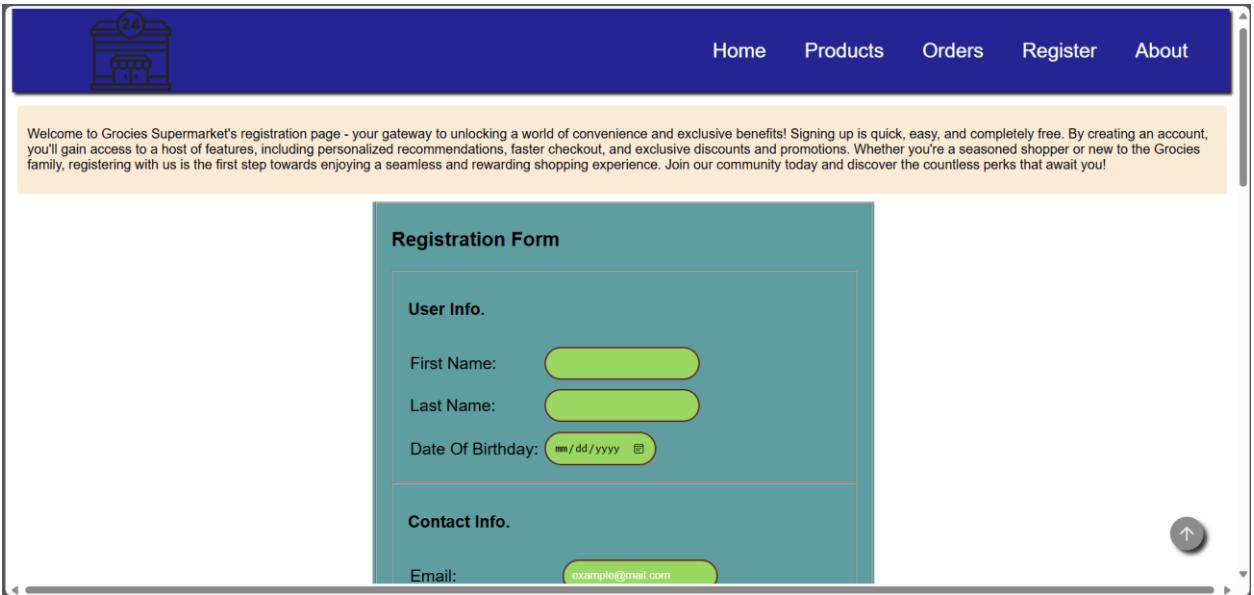
1. Home Page – Desktop

The screenshot shows the desktop version of the Groceries Supermarket website. At the top is a dark blue header bar with a logo of a supermarket building containing a '24' icon on the left, and navigation links for Home, Products, Orders, Register, and About on the right. Below the header is a search bar with a placeholder 'Search here' and a magnifying glass icon. A large, blurry background image of a grocery store interior is visible. In the center, a bold headline reads: "Delivering Excellence, Ensuring Quality - Every Product, Every Time." Below the headline is a welcome message: "Welcome to Groceries Supermarket, your friendly grocery store in Sri Lanka! With over 20 years of experience, we're dedicated to serving our community with top-notch products and services." This is followed by three paragraphs of text about the store's commitment to quality, accessibility, and community engagement. At the bottom of the main content area, there is a list of categories: "We have our main three categories for you. They are," followed by a bulleted list: "• Vegetables", "• Dairy products", and "Other food products".

2. Order Page – Desktop

The screenshot shows the desktop version of the Groceries Supermarket Order page. The layout is similar to the home page, with a dark blue header bar, a search bar, and a large background image of a grocery store. The main content area has a dark blue header titled "Orders". Below it is a welcome message: "Welcome to Groceries Supermarket's easy-to-use order page! Browse our wide range of products with simple categories or use our search bar to find what you need in no time. Just click to add items to your cart, review your selections, and proceed to checkout for a hassle-free experience. With secure payment options and flexible shipping, ordering groceries online has never been simpler. Try it now and see for yourself!" The page features six input fields arranged in a grid of two columns and three rows. The first row contains "Vegetables" and "Dairy Products" with dropdown menus for "Product" and "Amount". The second row contains "Baking And Cooking" with dropdown menus for "Products" and "Amount (1 Unit)". The third row contains "Meats", "Fruits", and "Skin Care Products", each with their respective dropdown menus.

3. Register Page – Desktop



Welcome to Groceries Supermarket's registration page - your gateway to unlocking a world of convenience and exclusive benefits! Signing up is quick, easy, and completely free. By creating an account, you'll gain access to a host of features, including personalized recommendations, faster checkout, and exclusive discounts and promotions. Whether you're a seasoned shopper or new to the Groceries family, registering with us is the first step towards enjoying a seamless and rewarding shopping experience. Join our community today and discover the countless perks that await you!

Registration Form

User Info.

First Name:

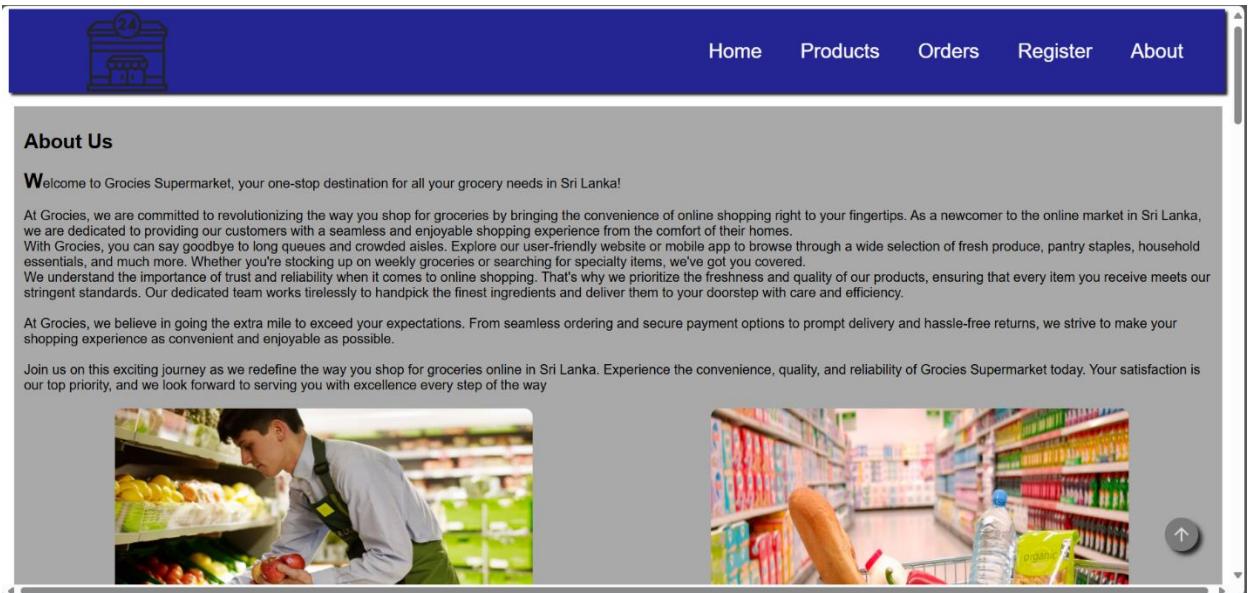
Last Name:

Date Of Birthday: mm/dd/yyyy

Contact Info.

Email: example@mail.com

4. About Us Page – Desktop



About Us

Welcome to Groceries Supermarket, your one-stop destination for all your grocery needs in Sri Lanka!

At Groceries, we are committed to revolutionizing the way you shop for groceries by bringing the convenience of online shopping right to your fingertips. As a newcomer to the online market in Sri Lanka, we are dedicated to providing our customers with a seamless and enjoyable shopping experience from the comfort of their homes. With Groceries, you can say goodbye to long queues and crowded aisles. Explore our user-friendly website or mobile app to browse through a wide selection of fresh produce, pantry staples, household essentials, and much more. Whether you're stocking up on weekly groceries or searching for specialty items, we've got you covered. We understand the importance of trust and reliability when it comes to online shopping. That's why we prioritize the freshness and quality of our products, ensuring that every item you receive meets our stringent standards. Our dedicated team works tirelessly to handpick the finest ingredients and deliver them to your doorstep with care and efficiency.

At Groceries, we believe in going the extra mile to exceed your expectations. From seamless ordering and secure payment options to prompt delivery and hassle-free returns, we strive to make your shopping experience as convenient and enjoyable as possible.

Join us on this exciting journey as we redefine the way you shop for groceries online in Sri Lanka. Experience the convenience, quality, and reliability of Groceries Supermarket today. Your satisfaction is our top priority, and we look forward to serving you with excellence every step of the way



5. Pay Page – Desktop

The screenshot shows a payment summary page. At the top, there's a blue header bar with a logo on the left and navigation links: Home, Products, Orders, Register, and About. Below the header, a large white box displays the total price and a list of purchased items. The total price is Rs.27060/=.

Total Price	Rs.27060/=
Product - Bell Pepper Red, Amount - 4, Price - Rs.3800/=	
Product - Kotmale Cheese Wedges, Amount - 9, Price - Rs.5040/=	
Product - Edinborough B.B.Q Sauce, Amount - 1, Price - Rs.600/=	
Product - Tuna, Amount - 1, Price - Rs.2620/=	
Product - Pomegranate, Amount - 2, Price - Rs.6000/=	
Product - Vaseline Body Lotion Cocoa Glow, Amount - 3, Price - Rs.9000/=	

Below the summary, there's a form for customer details:

Customer Name:	Praveen
Address:	
Mobile:	0771212121
Email:	cb008920@students.apiit.lk

6. Vegetables Page – Desktop

The screenshot shows the Vegetables section of the website. At the top, there's a blue header bar with a logo on the left and navigation links: Home, Products, Orders, Register, and About. Below the header, a grey navigation bar contains links for Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits, and Skin-Care. A search bar with a magnifying glass icon is also present.

Vegetables

Welcome to Groceries Supermarket's Vegetable Oasis. Dive into our vibrant selection of farm-fresh produce, carefully curated to inspire your culinary creations. From crunchy greens to colorful peppers, succulent tomatoes to exotic root vegetables, we have everything you need to add a healthy and flavorful touch to your meals. Our Vegetable section is your go-to destination for quality ingredients that will elevate your dishes to new heights. Explore our aisles today and discover the joy of cooking with the freshest vegetables at Groceries Supermarket!

Here are our main venues there we buy vegetables for you

- Dambulla Dedicated Economic Centre (DDEC): Located in the central part of Sri Lanka, Dambulla Dedicated Economic Centre is one of the largest wholesale vegetable markets in the country. It serves as a hub for farmers from various regions to sell their produce to retailers and distributors. Visitors to DDEC can find a wide variety of fresh vegetables sourced directly from local farms.
- Pettah Manning Market, Colombo: Situated in the heart of Colombo, Pettah Manning Market is a bustling market known for its vibrant atmosphere and diverse array of goods. Here, vendors offer a wide selection of fruits and vegetables, sourced from both local farmers and imported sources. With its central location and accessibility, Pettah Manning Market is a popular destination for both wholesale buyers and individual shoppers looking for fresh produce.

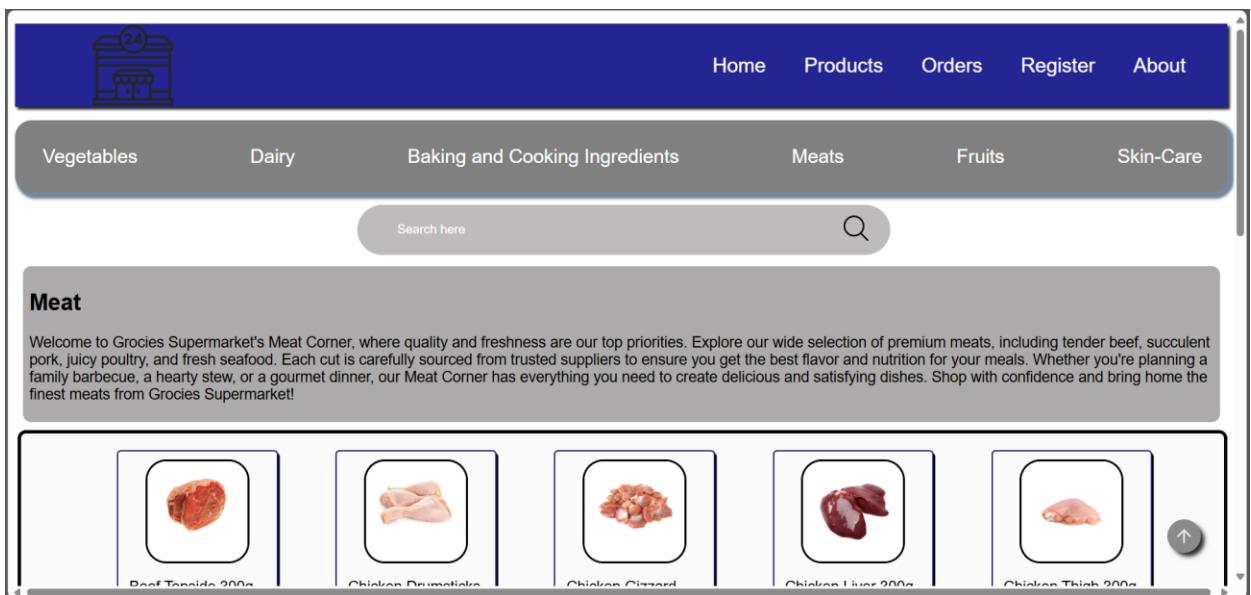
7. Dairy Page – Desktop

The screenshot shows a desktop view of a supermarket website. At the top is a dark blue header bar with a small storefront icon on the left. To the right are five white links: Home, Products, Orders, Register, and About. Below the header is a grey navigation bar with six categories: Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits, and Skin-Care. A search bar with a placeholder 'Search here' and a magnifying glass icon is centered below the navigation bar. The main content area has a light blue background and features a section titled 'Dairy Products'. It contains a paragraph of text welcoming visitors to the dairy products page and encouraging them to explore various items like cheeses, yogurt, and spreads. Below this text is a grid of six product thumbnails, each with a small image and a caption: 'AMERVELA 100% Vegetarian', 'DARLINGTON', 'AP'S Imperial', 'CARTERS', 'DARLINGTON', and 'FRESH CREAM'. The grid is enclosed in a light grey border with scroll arrows at the bottom right.

8. Baking And Cooking Ingredients Page – Desktop

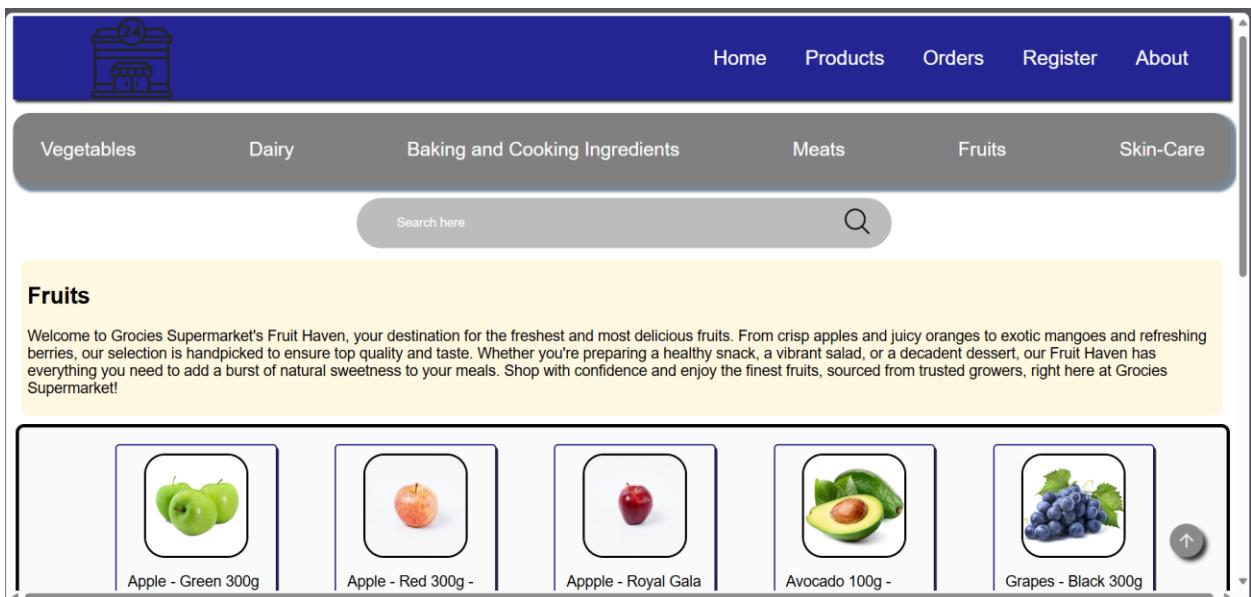
The screenshot shows a desktop view of a supermarket website. The layout is identical to the previous screenshot, with a dark blue header, a grey navigation bar, and a light blue main content area. The 'Baking and Cooking Ingredients' category is selected in the navigation bar. The main content area features a section titled 'Baking And Cooking Products'. It includes a paragraph of text about the baking and cooking ingredients section, highlighting its variety of high-quality ingredients from flour to oils. Below this text is a grid of five product thumbnails: 'Edinborough B.B.Q', 'Edinborough', 'Marina Cooking Oil', 'Mauripan Instant', and 'Rayin White String'. The grid is enclosed in a light grey border with scroll arrows at the bottom right.

9. Meats page – Desktop



The screenshot shows the 'Meats' section of the Groceries Supermarket website. At the top, there's a blue header bar with a 24-hour service icon and navigation links for Home, Products, Orders, Register, and About. Below the header is a grey navigation bar with categories: Vegetables, Dairy, Baking and Cooking Ingredients, Meats (which is highlighted in blue), Fruits, and Skin-Care. A search bar with a magnifying glass icon is positioned below the navigation bar. The main content area has a grey background and features a heading 'Meat'. Below it is a paragraph of text: 'Welcome to Groceries Supermarket's Meat Corner, where quality and freshness are our top priorities. Explore our wide selection of premium meats, including tender beef, succulent pork, juicy poultry, and fresh seafood. Each cut is carefully sourced from trusted suppliers to ensure you get the best flavor and nutrition for your meals. Whether you're planning a family barbecue, a hearty stew, or a gourmet dinner, our Meat Corner has everything you need to create delicious and satisfying dishes. Shop with confidence and bring home the finest meats from Groceries Supermarket!' Below the text is a grid of five meat products, each with an image and a caption: Beef Topsides 300g, Chicken Drumsticks, Chicken Gizzard, Chicken Liver 300g, and Chicken Thigh 300g. There are also navigation arrows at the bottom right of the grid.

10. Fruits Page – Desktop



The screenshot shows the 'Fruits' section of the Groceries Supermarket website. It has the same blue header bar with a 24-hour service icon and navigation links for Home, Products, Orders, Register, and About. Below the header is a grey navigation bar with categories: Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits (which is highlighted in blue), and Skin-Care. A search bar with a magnifying glass icon is positioned below the navigation bar. The main content area has a yellow background and features a heading 'Fruits'. Below it is a paragraph of text: 'Welcome to Groceries Supermarket's Fruit Haven, your destination for the freshest and most delicious fruits. From crisp apples and juicy oranges to exotic mangoes and refreshing berries, our selection is handpicked to ensure top quality and taste. Whether you're preparing a healthy snack, a vibrant salad, or a decadent dessert, our Fruit Haven has everything you need to add a burst of natural sweetness to your meals. Shop with confidence and enjoy the finest fruits, sourced from trusted growers, right here at Groceries Supermarket!' Below the text is a grid of five fruit products, each with an image and a caption: Apple - Green 300g, Apple - Red 300g -, Appple - Royal Gala, Avocado 100g -, and Grapes - Black 300g. There are also navigation arrows at the bottom right of the grid.

11. Skin – Care Page – Desktop

The screenshot shows a desktop view of the Groceries Supermarket website's skincare section. At the top is a dark blue header bar with a logo of a supermarket building containing a '24' icon. To the right are navigation links: Home, Products, Orders, Register, and About. Below the header is a grey navigation bar with categories: Vegetables, Dairy, Baking and Cooking Ingredients, Meats, Fruits, and Skin-Care. The Skin-Care category is highlighted with a darker shade. A search bar with the placeholder 'Search here' and a magnifying glass icon is positioned below the navigation bar. The main content area has a light orange background and features a heading 'Skin Care Products'. Below this is a descriptive paragraph about the skincare collection. Two product cards are visible: 'Aurica Alovera Face Wash - Rs.400/=', which shows a green tube of face wash, and 'Aurica Neem Face Wash - Rs.410/=', which shows a similar green tube. A scroll bar on the right indicates more content is available.

1.1. Home Page – Mobile

The screenshot shows a mobile phone displaying the Groceries Supermarket homepage. At the top is a dark blue header bar with a logo of a supermarket building containing a '24' icon and a three-line menu icon. Below the header is a search bar with the placeholder 'Search here' and a magnifying glass icon. The main content area features a large, semi-transparent call-to-action box with the text: "Delivering Excellence, Ensuring Quality - Every Product, Every Time." Below this, there is a welcome message: "Welcome to Groceries Supermarket, your friendly grocery store in Sri Lanka! With over 20 years of experience, we're dedicated to serving our community with top-notch products and services. We have everything you need ensuring you have access to quality items every time you shop with us." A small circular arrow icon is at the bottom right of the message box. The background of the page is white.

1.2. Order Page – Mobile

The image shows a mobile application interface for an order page. At the top, there is a blue header bar featuring a stylized building icon with a '24' above it and a three-line menu icon on the right. Below the header, the word 'Orders' is displayed in large, bold, white letters. A descriptive paragraph in white text on a dark purple background explains the service: 'Welcome to Groceries Supermarket's easy-to-use order page! Browse our wide range of products with simple categories or use our search bar to find what you need in no time. Just click to add items to your cart, review your selections, and proceed to checkout for a hassle-free experience. With secure payment options and flexible shipping, ordering groceries online has never been simpler. Try it now and see for yourself!' At the bottom, there is a white card with rounded corners containing a section titled 'Vegetables' in bold black text. It includes a dropdown menu labeled 'Product:' with a downward arrow icon, a text input field for 'Amout:', and a circular button with an upward arrow icon.

Orders

Welcome to Groceries Supermarket's easy-to-use order page! Browse our wide range of products with simple categories or use our search bar to find what you need in no time. Just click to add items to your cart, review your selections, and proceed to checkout for a hassle-free experience. With secure payment options and flexible shipping, ordering groceries online has never been simpler. Try it now and see for yourself!

Vegetables

Product:

Amout:

↑

1.3. Register Page – Mobile

The image shows a mobile registration page for Groceries Supermarket. At the top, there is a blue header bar featuring a stylized building icon with a '24' on it and a menu icon. Below the header is a large orange callout box containing a welcome message. The main content area is a white box titled 'Registration Form' under 'User Info.' It includes a 'First Name:' label and a red-bordered input field with a placeholder and an upward arrow icon.

Welcome to Groceries Supermarket's registration page - your gateway to unlocking a world of convenience and exclusive benefits! Signing up is quick, easy, and completely free. By creating an account, you'll gain access to a host of features, including personalized recommendations, faster checkout, and exclusive discounts and promotions. Whether you're a seasoned shopper or new to the Groceries family, registering with us is the first step towards enjoying a seamless and rewarding shopping experience. Join our community today and discover the countless perks that await you!

Registration Form

User Info.

First Name:

↑

1.4. About Us Page – Mobile

The image shows a mobile device displaying the 'About Us' page of a website. The header features a blue background with a white icon of a supermarket storefront labeled '24' and a three-line menu icon. The main content area has a light gray background. At the top, the title 'About Us' is displayed in bold black font. Below the title, there is a paragraph of text. At the bottom of the page, there is another paragraph of text, followed by a small circular icon containing an upward-pointing arrow.

About Us

Welcome to Groceries Supermarket, your one-stop destination for all your grocery needs in Sri Lanka!

At Groceries, we are committed to revolutionizing the way you shop for groceries by bringing the convenience of online shopping right to your fingertips. As a newcomer to the online market in Sri Lanka, we are dedicated to providing our customers with a seamless and enjoyable shopping experience from the comfort of their homes. With Groceries, you can say goodbye to long queues and crowded aisles. Explore our user-friendly website or mobile app to browse through a wide selection of fresh produce, pantry staples, household essentials, and much more. Whether you're stocking up on weekly groceries or searching for specialty items, we've got you covered.

We understand the importance of trust and reliability when it comes to online shopping. That's why we prioritize the freshness and quality of our products, ensuring that every item you receive meets our stringent standards. Our dedicated team works

1.5. Pay Page – Mobile

The image shows a mobile payment page. At the top is a blue header bar featuring a white outline of a shop with a '24' sign above it. Below the header is a white rounded rectangle containing text: 'Total Price Rs.2000/=', 'Product - Apple Red, Amount - 1,' and 'Price - Rs.2000/='. The main body of the page is a table with a grey header row and white data rows. The columns represent customer information. The table has six rows:

Customer Name:	Praveen
Address:	
Mobile:	0771212121
Email:	cb008920@
Payment Method(Online):	Visa <input type="radio"/> Debit <input checked="" type="radio"/>
Card Number:	<input type="text"/> 

1.6. Vegetables Page – Mobile



1.7. Dairy Page – Mobile



Ambewela set
yogurt One unit -
Rs.80/=

Order



Castello Cheese
one unit -
Rs.1690/=

Order



1.8. Baking And Cooking ingredients – Mobile



Edinborough B.B.Q
Sauce (1 Unit) -
Rs.600/=

Order



Edinborough
Superior Dark Soy
Sauce (1 Unit) -
Rs.700/=

Order



1.9. Meats Page – Mobile

satisfying dishes. Shop with confidence and bring home the finest meats from Groceries Supermarket!



Beef Topside 300g -
Rs.1200/=

Order



Chicken Drumsticks
300g - Rs.600/=

Order

1.10. Fruits Page – Mobile

Burst of natural sweetness to your meals. Shop with confidence and enjoy the finest fruits, sourced from trusted growers, right here at Groceries Supermarket!



Apple - Green 300g - Rs.510/=

[Order](#)



Apple - Red 300g - Rs.600/=

[Order](#)



1.11. Skin – care Page – Mobile

With moisturizing ingredients to keep your skin soft, smooth, and supple all day long. Explore our range of skincare products, including cleansers, and more, each carefully selected to deliver visible results. Discover the secret to healthy, glowing skin with Groceries Supermarket's Skin Care Sanctuary - because you deserve to look and feel your best every day.

	
Aurica Aloevera Face Wash - Rs.400/=	Aurica Neem Face Wash - Rs.410/=
Click to order	Click to order
	
Enchanteur Body Lotion Alluring	Enchanteur Body Lotion Romantic 100ML hr

8. Conclusion

This website is a user-friendly platform featuring a well-structured main and mini navigation bar that helps users to find what they need. The introductions provide valuable information about the product categories. Mobile users also can visit the website because of the responsiveness of the web pages. Users can submit their orders, buy the order and complete the checkout process. Users can view their order details and the total price. Additionally, they can save their order if they want and apply that order at any time. There were some challenges that I had to face. The first one is creating the table when user select an item and the amount. I took the product name and the amount. Then got the price for that amount using a function that gives the price of a unit/ kilogram. Finally, use a function that creates table rows that include the product name, amount, and the price. These rows were then appended to the table to display the orders. The second challenge was getting only the selected products and their corresponding amounts to create the table and ignore empty fields upon submission. I check if the input field for the product and amount has values. If both fields had values, use these values to create the rows. The third challenge was sending the order table's details to the payment page and showing the orders and the total price. I got the details (product name, amount, price) from each row of the order table. Then created objects which have those details and pushed them to an array. Finally, used those objects and showed the orders and the total price on the pay page. I used the same method to create users' favorite order. Then used object's product name, amount and price to create rows of the order table when user wants to use his favorite order.

I learned many things about JavaScript such as how to create and manipulate HTML elements, store data (order details) in the local storage, when to use objects/ arrays, why I should “JSON.stringify” objects if I want to use them effectively later.

Finally, all the functions work well and complete the all the assignment's requirements.

Website link - <https://praveenmalindasiri.github.io/website/>