B.M.S. COLLEGE OF ENGINEERING

(Autonomous Institute, Affiliated to VTU)

Bull Temple Road, Basavanagudi, Bangalore - 560019

A project report on

Grocery Store Website

Submitted in partial fulfillment of the requirements for the award of degree

B.E

IN

Artificial Intelligence and Machine Learning

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C E R T I F I C A T E

This is to certify that the group project entitled Grocery Store Website is a bona-fide work carried out by **(10) Pranav Veeraghanta and (40) Srujan Rajesh Kumar** in partial fulfillment for the award of degree of B.E in Artificial Intelligence and Machine Learning from **Visvesvaraya Technological University, Belgaum** during the year **2022-23**. The group project report has been approved as it satisfies the academic requirements in respect of group project prescribed for the Degree.

Signature of the Guide
Name and Designation

Signature of the HoD
Name and Designation

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CHAPTER 1 : Introduction

The grocery store website idea was chosen as it includes many elements like price, cart, discounts, limited items, adding and subtracting items etc. making this an opportunity to display the development of a website using HTML, JavaScript, CSS, and Bootstrap.

HTML is the backbone of the website, providing the structure and content of the web pages. JavaScript is used to add dynamic elements to the website like interactive features. CSS is used to style the website, creating an attractive and visually appealing UI. Finally, Bootstrap is used to ensure that the website is responsive and accessible on a variety of devices, including desktops, laptops, tablets, and mobile phones irrespective of the inherent browser compatibility.

The Grocery Store website is designed with an aesthetic, featuring contrasting color schemes of green and blue. The homepage includes a header with the name, navigation to the items page and a cart icon that when clicked displays information about items and total price in the cart.

Along with the above mentioned features the website also has a map location.

This website is also designed to be compatible with browsers like Firefox, Edge and Safari making it such that all elements are the same, this has been achieved by using bootstrap features.

The goal is to create a user friendly and easily understandable website.

Chapter 2 : Components of the website

2.1 : Header, Footer and About Sections

- In the header section we have the grocery store name, a link to the items page, a link to the home page and a cart button.
- This header item is present in both pages and is an important part of the html page as it helps define the page.
- In the Footer, it's a simple green background section containing a copyright warning and a disclaimer and is positioned at the bottom.
- In the About section of the page the fonts bring a rustic feel and organic feel, its kept short and simple to make it worth reading.
- We have used contrasting colors of green and blue to make the site look lively and welcoming.

2.2 : Map

- The <iframe> tag has been used to get the map and its location is specified within the tag. The map is interactable allowing the users to go in more depth, this requires an internet connection to work.

2.3 : limited and regular items

- The home page and items page have items in them, each item has an image along with a name and price shown above the image.
- Each of these items also have an adder and subtractor to add or

remove items, these are dynamic and show the number of items that are currently present using a .innerHTML function, each of these 12 items have individual javascript codes that count the price and number of items too.

- These items are counted and are displayed when we click the cart icon.

- Each of these items are sorted horizontally and are done so using a property called flex, the images for the items are inherently different sizes hence we min attributes to help all of them look the same.

- We get the rupee symbol for bootstrap using their CDN links.

- Each of these items also have properties to prevent overflow and to make the overflow scrollable in its div tag, since the scroll will be visible css properties have been used to hide it. The hide function not only works in Chrome but also in Firefox and Edge .

2.4 : Cart functionality in html page 1 & 2

- The cart icon is from the bootstraps icon library.

- We have created it as a button that when clicked we get the cart that displays information such as number of items, price of that item and overall price.

- this is displayed in the alert box of a browser, every browser has it so it will run in every browser.

- We collect the data of each count and price using global variables and then computing them and displaying them.

- all 12 items have individual variable initialization that can be accessed outside its scope block.

Chapter 3 : Tools Used (CSS and JS)

- Bootstrap CDN links to get icons and fonts and basic formatting and quickly reducing latency.

- Google fonts to get more stylized fonts that are accessible in any browser.

- We have also used CSS animations to where the home and items tag are in the header where when we hover over it an underline is animated.

- Properties of CSS used are :
    - flex.
    - text.
    - font.
    - pseudo hover.
    - css animations.
    - css box model to space elements.
    - background color, linear gradients.
    - box shadow to create a 3D effect of the box.
    - box radius to make it smooth.

- In Javascript we have used document.getElementById allowing us to calculate the number of items.
- We have also used .innerHTML to display the values after increment and decrement.
- We have also used if conditions to set upper and lower limits to the items(it's 5).
- We have also used local and global variables to help us compute the price using arithmetic operators.

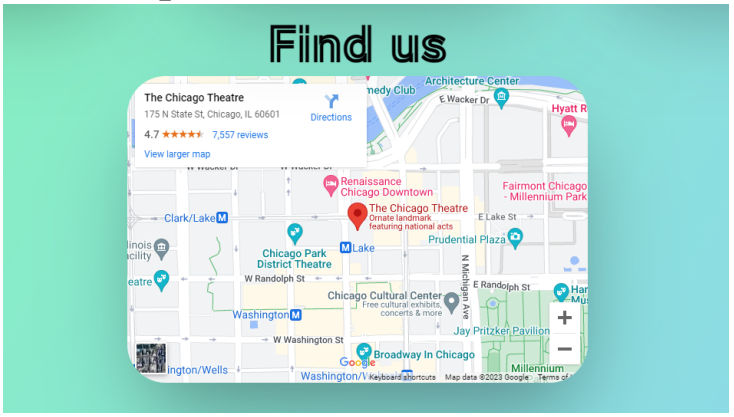
Chapter 4 : Module wise Screenshots

1. Header (both pages have same header)

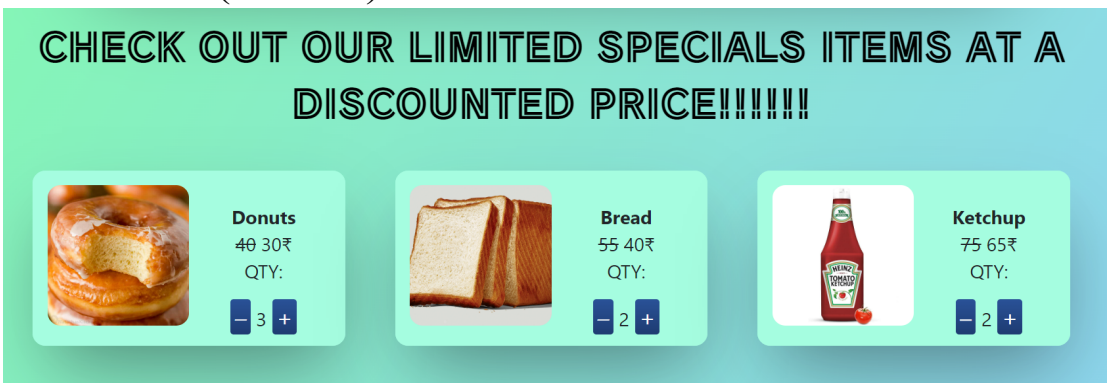
2. Footer (both pages have same footer)

3. About section

4. Map

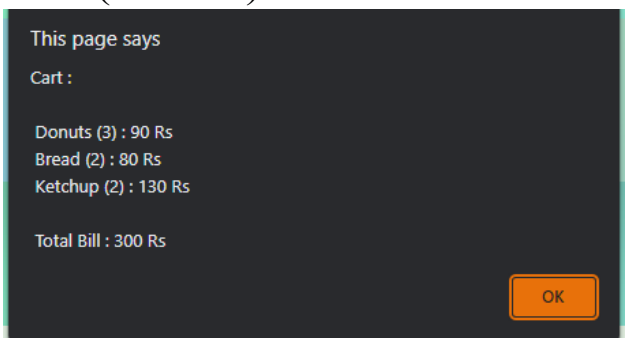


5. Items (limited)



6. Items (Dairy, fruits, vegetables)

7. Cart (limited)



8. Cart (Dairy, vegetables, fruits)

Chapter 5 : Conclusion

To conclude it can be said that Online grocery shopping is at its peak especially when everyone wants their groceries sent home without physically doing the task of going to the grocery store and hence the creation of our very own website.

As explained our website was done with every aspect of the site having a working function and being unique.
We have included all the properties being taught to us in the course, making use of every property and function.

From using vibrant background colors, designs, shadows and buttons to attract our customers using WebGradients, Item selections using JavaScript codes, to using CSS animations and Bootstrap CDN links, our grocery store website has it all.

Chapter 6 : References

1. Background Colors : *"https://webgradients.com"*

2. CSS animations : *"https://codepen.io/bramus/pen/AzmevE"*

3. Ideology template : *"https://github.com/anilkar/grocery-store"*

4. BootStrap Official Documentation :
   "https://getbootstrap.com/docs/5.1/getting-started/introduction"

5. W3Schools: HTML, CSS, and JavaScript Tutorials -
   "https://www.w3schools.com"

6. Google Developers: Web Fundamentals -
   "https://developers.google.com/web/fundamentals"

7. MDN Web Docs: Learn Web Development -
   "https://developer.mozilla.org/en-US/docs/Learn"