

Technical Coding Research Innovation, Navi Mumbai, Maharashtra, India-410206

# (FoodBuddy)

A Case-Study Submitted for the requirement of Technical Coding Research Innovation

For the Internship Project work done during

# FRONTEND WEB DEVELOPMENTP INTERNSHIP PROGRAM

By

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TCR innovation.



# **About Organization**

TCR INNOVATION stands for Technical Coding & Research Innovation, is a best institute for industrial training and internship programs and believes in "bridging the gap between students and their knowledge in the industrial field & bringing them a step closer to their Dream. TCR Innovation focus on industrial training and offer Internship Programs where you can learn the indemand professional skills to advance your career in Web Development, Artificial Intelligence, Machine Learning, Deep Learning, Python with Automation, Computer Vision, Data Science, Digital Marketing, Python Programming, Software development, Database and more.

TCR INNOVATION was founded in Feb 2020 by Rutuja Doiphode and Saheel Ramji. Their Internship Programs are specially designed so Interns can learn new skills or enhance their skills in the most efficient way. Interns are First trained by the Mentors in their applied Domain through Live Lectures. Comprehensive Notes & Study Materials are provided along with Intensive Training in the domain. After the Training Period is Complete, Interns are given the Opportunity to work on an Industrial-Level Project which will be the Project Phase and one of the most Important Phase of their Internship. The Training completion certificate along with the Internships Certificate are awarded after the Successful Completion of your Project with Letter of Recommendation.

Email of TCR Innovation is tcrinnovation@tcrinnovation.co.in and their website is <a href="https://tcrinnovation.co.in/">https://tcrinnovation.co.in/</a>

# **ABSTRACT**

My project is based on FoodBuddy-an Online Food Ordering Front End Web Development. The online food ordering system provides convenience for the customers. It overcomes the disadvantages of the traditional queuing system. This system increases the takeaway of foods than visitors. Therefore, this system enhances the speed and standardization of taking the order from the customer. It provides a better communication platform. The user's details are noted electronically. The online food ordering set up menu online and the customers easily places the order with a simple mouse click. Also with a food menu online you can easily track the orders, improve your food delivery service. This system allows the user to select the desired food items from the displayed menu. The user orders the food items. The user's details are maintained confidential because it maintains a separate account for each user. Therefore it provides a more secured ordering. An ordering system is referred to as a set of detail methods that is being used in handling the ordering process. Food ordering can be computerized or done manually. Those helps the customer to order their food themselves which is known as the customer selfordering system. The customer self-ordering can be defined as a computerized system that is being used by customers to place their own orders in the restaurant and allow the orders to be tracked, in order to prepare and deliver the food to the computers. This online application enables the end users to register online, select the food from the menu card, read the menu card and order food online. By just selecting the food that the user want to have. The results after selecting the food from the menu card will directly appear in the cart menu. The benefit of this is that if there is rush in the Restaurant then there will be chances that the waiters will be unavailable and the users can directly order the food online by using this.

The process of creating HTML, CSS, and JavaScript for a website or Application so that a user can see and engage with them directly is known as front-end web development, sometimes known as client-side development. The difficulty with front end development is that the methods and technologies used to build a website's front end are continually changing, necessitating constant monitoring of the industry's advancements.

A front-end developer architects and develops websites and applications using web technologies (i.e., HTML, CSS, DOM, and JavaScript), which run on the

Open Web Platform or act as compilation input for non-web platform environments.

# Objective of the Project

The main objective of the Project on Online Food Ordering System is to manage the details of Food Item, Category, Customer, Order, Place Order. It manages all the information about Food Item, Confirm Order, Form.. The purpose of the project is to build an application program to reduce the manual work for managing the Food Item, Category, Cart, Customer. It tracks all the details about the Customer, Order, Confirm Order. Functionalities provided by Online Food Ordering System are as follows:

- Provides the facilities based on various factors. Such as Food Item, Customer, Order, Cart, Offers and Deals, Categories, Online Food Ordering System also manage the Cart System for Order details, Order details, Food Item.
- It tracks all the information of Category, Order etc Manage the information of Category
- Shows the information and description of the Food Item, Customer
- To increase efficiency of managing the Food Item, Category
- Manage the information of Food Item
- Editing, adding and updating of Records is improved which results in proper resource management of Food Item data
- . Manage the information of Order

# **INTRODUCTION**

The process of creating HTML, CSS, and JavaScript for a website or Application so that a user could see and interact with them directly is known as front-end web development, sometimes known as client-side development. The difficulty with front end development is that the methods and technologies used to build a website's front end are continually changing, necessitating constant monitoring of the industry's advancements. It is the front-end developer's job to take the vision and design concept from the client and implement it through code. Everything on the page from the logo to the search bar, buttons, overall layout and how the user interacts with the page was created by a front-end developer. Front end developers are in charge of the look and feel of the website.

Front end developers also have to make sure the website looks good on all devices (phones, tablets, and computer screens).

### What a Front-End Developer Does:

A front-end developer has one general responsibility: to ensure that website visitors can easily interact with the page. They do this through the combination of design, technology and programming to code a website's appearance, as well as taking care of debugging. Whenever you visit a website, anything that you see, click on or otherwise use is the work of a front-end developer.

## Common Tasks of a Front-End Developer

Although there is some variation across companies, you can generally expect a front-end developer role to include some or all of the following:

- 1. Optimizing the user experience.
- 2. Using HTML, JavaScript and CSS to bring concepts to life.
- 3. Developing and maintaining the user interface.
- 4. Implementing design on mobile websites.
- 5. Creating tools that improve site interaction regardless of the browser.
- 6. Managing software workflow.

### Front End Development: Commonly Used Programming Languages

Most front-end developers spend a great deal of their time working in HTML, CSS and JavaScript, making proficiency in each key to their success.

### How Developers Use Each Programming Language

Front end developers use HTML to lay out a document's general structure and content, CSS for styling and JavaScript for situations that require advanced interactivity. Additionally, they might use AJAX (a combination of JavaScript and XML) to update specific areas of a website without having to refresh the entire page.

#### Libraries and Frameworks

Front end developers also commonly use the libraries built on these programming languages like AngularJS, jQuery and React; and design frameworks including Foundation and Bootstrap. CSS extensions, such as SASS, provide improved modularity and power.

### Additional Front End Development Languages

While they are less common, front-end developers may also use Python, Ruby or PHP to easily connect data with the back end of their website.

#### Common Tools Used in Front End Development

Because front end developers use a combination of design and web development in their work, the tools they use span across these areas of focus.

### Graphic Design Tools

Before a front-end developer begins coding, they typically use graphic design tools to create a prototype of their website, which lets them test and experiment with the user interface before working out the actual code.

### **Code Editing Tools**

A code editing tool is simply the program a front end developer chooses to use to write the code for their website. Some developers prefer to use a lightweight editor like Notepad, while others opt for something more feature-rich like Visual Studio or Eclipse.



# **HTML**

HTML stands for Hyper Text Markup Language. It is used to design web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. Markup language is used to define the text document within a tag which defines the structure of web pages. HTML 5 is the fifth and current version of HTML. It has improved the markup available for documents and has introduced application programming interfaces (API) and Document Object Model (DOM). The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags as <img/> and <input/> directly introduce content into the page. Other tags such as  $\langle p \rangle$  surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags but use them to interpret the content of the page.

#### **Features**

- 1. It has introduced new multimedia features which supports audio and video controls by using <audio> and <video> tags.
- 2. There are new graphics elements including vector graphics and tags.
- 3. Enrich semantic content by including <header> <footer>, <article>, <section> and <figure> are added.
- 4. Drag and Drop- The user can grab an object and drag it further dropping it on a new location. 5) Geo-location services- It helps to locate the geographical location of a client.
- 6. Web storage facility which provides web application methods to store data on web browser.
- 7. Uses SQL database to store data offline.
- 8. Allows to draw various shapes like triangle, rectangle, circle, etc.
- 9. Capable of handling incorrect syntax.
- 10. Easy DOCTYPE declaration i.e. <!doctype html>
- 11. Easy character encoding i.e. <meta charset="UTF-8">

HTML is the skeleton of all web pages and its most basic building block. It's often the first language learned by developers, marketers, and designers and is core to front-end development work. HTML provides structure to the content appearing on a website, such as images, text, or videos. Right-click on any page on the internet, choose "Inspect," and you'll see HTML in a panel of your screen. A markup language is a computer language that defines the structure and presentation of raw text. In HTML, the computer can interpret raw text that is wrapped in HTML elements. Hypertext is the text displayed on a computer or device that provides access to other text through links, also known as hyperlinks. Learning HTML is the first step in creating websites, but even a bit of knowledge can help you inject code snippets into newsletter, blog, or website templates. As you continue learning, you can layer HTML with CSS and JavaScript to create visually compelling and dynamic websites.

# CSS (Cascading Style Sheets)

Cascading Style Sheets (CSS) is used to format the layout of a webpage. With CSS, you can control the color, font, the size of text, the spacing between elements, how elements are positioned and laid out, what background images or background colors are to be used, different displays for different devices and screen sizes, and much more. CSS is designed to enable the separation of and fonts.[3] This content, including layout, colors, presentation and separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

- CSS can be added to HTML documents in 3 ways:
- 1)Inline by using the style attribute inside HTML elements
- 2)Internal by using a <style> element in the <head> section
- 3)External by using a <link> element to link to an external CSS file

Inline styles

It relates to a specific HTML tag, using a style attribute with a CSS rule to style a particular page element. They're useful for quick and permanent changes but are less flexible than external and internal stylesheets, as each inline style you create must be edited separately if you're making a design change.

### Internal stylesheet

An internal stylesheet holds CSS rules for the page in the head section of the HTML file. The rules only apply to that page, but you can configure CSS classes and IDs to style multiple elements in the page code. Again, a single change to the CSS rule will apply to all tagged page elements.

### External stylesheet

An external stylesheet is a standalone .css file linked from a web page. Using external stylesheets, you can apply rules to multiple web pages. If you ever need to make widespread changes to your website design, a single change in the stylesheet can be applied to all linked pages, saving lots of time and effort.



# **JavaScript**

JavaScript is a light-weight object-oriented programming language that is used by several websites for scripting the webpages. It is an interpreted, full-fledged programming language. JavaScript enables dynamic interactivity on websites when it is applied to an HTML document. JavaScript helps the users to build modern web applications to interact directly without reloading the page every time. JavaScript is commonly used to dynamically modify HTML and CSS to update a user interface by the DOM API. It is mainly used in web applications.

JavaScript is commonly used for creating web pages. It allows us to add Many browsers use JavaScript as a scripting language for doing dynamic things on the web. Any time you see a click-to-show dropdown menu, extra content added to a page, and dynamically changing element colors on a page, to name a few features, you're seeing the effects of JavaScript.

### How JavaScript Makes Things Dynamic?

HTML defines the structure of your web document and the content therein. CSS declares various styles for the contents provided on the web document. HTML and CSS are often called markup languages rather than programming

languages, because they, at their core, provide markups for documents with very little dynamism.

### How JavaScript Makes Things Dynamic?

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JavaScript, on the other hand, is a dynamic programming language that supports Math calculations, allows you to dynamically add HTML contents to the <u>DOM</u>, creates dynamic style declarations, fetches contents from another website, and lots more.

In the codepen, you'll see that as you type in the input field, the text shows on the screen. That is made possible by JavaScript. You cannot get this with HTML, CSS, nor both of them together.

JavaScript can do a lot more than what I can cover in this article. But to get you started with JS, we'll look at:

- how to use JavaScript in HTML
- data types
- variables
- comments
- functions
- Frameworks and Libraries

A web framework (WF) or web application framework (WAF) is a software framework that is designed to support the development of web applications including web services, web resources, and web APIs. Web frameworks provide a standard way to build and deploy web applications on the World Wide Web. Web frameworks aim to automate the overhead associated with common activities performed in web development. For example, many web frameworks provide libraries for database access, templating frameworks, and session management, and they often promote code reuse. Although they often target development of dynamic web sites, they are also applicable to static websites.

# **Bootstrap**

- 1. Bootstrap is the most popular HTML, CSS and JavaScript framework for developing a responsive and mobile friendly website.
- 2. It is absolutely free to download and use.
- 3. It is a front-end framework used for easier and faster web development.
- 4. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many others.
- 5. It can also use JavaScript plug-ins. It facilitates you to create responsive designs

Bootstrap was developed by Mark Otto and Jacob Thornton at Twitter. It was released as an open-source product in August 2011 on GitHub. In June 2014 Bootstrap was the No.1 project on GitHub.

Following are the main advantage of Bootstrap:

1. It is very easy to use. Anybody having basic knowledge of HTML and CSS can use

Bootstrap.

- 2. It facilitates users to develop a responsive website.
  - 3. It is compatible on most browsers like Chrome, Firefox, Internet Explorer, Safari and Opera etc.

### Scaffolding:

Bootstrap provides a basic structure with Grid System, link styles, and background. CSS: Bootstrap comes with the feature of global CSS settings, fundamental HTML elements style and an advanced grid system.

### Components:

Bootstrap contains a lot of reusable components built to provide iconography, dropdowns, navigation, alerts, pop-overs, and much more. JavaScript Plugins: Bootstrap also contains a lot of custom jQuery plugins. You can easily include them all, or one by one.

#### Customize:

Bootstrap components are customizable and you can customize Bootstrap's components, LESS variables, and jQuery plugins to get your own style.



# Case Study

**Title:** Tours and Travels Website

Objective: To understand the concepts of HTML, CSS and Js by creating

websites.

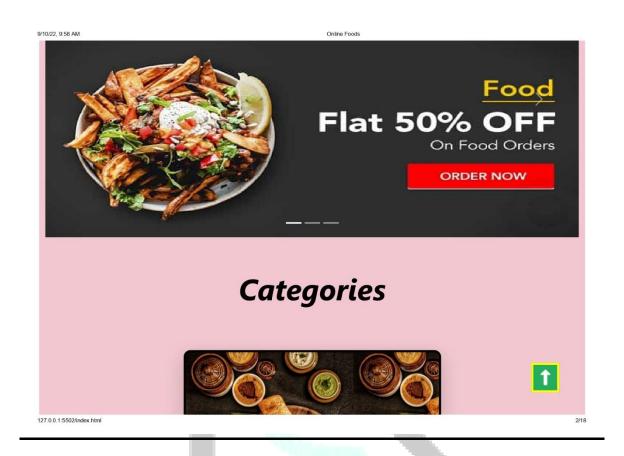
Software used: VS code

OUTPUTS

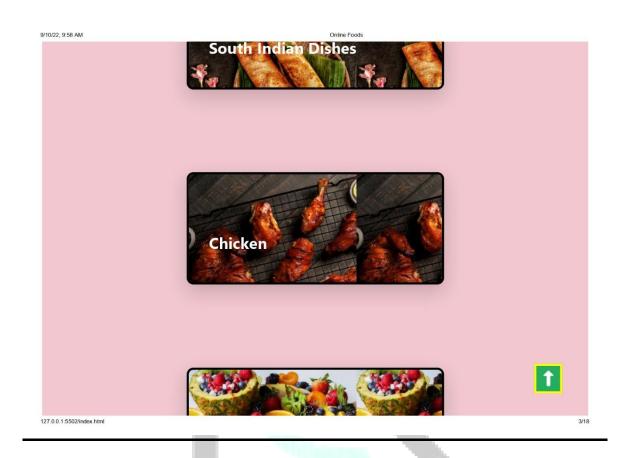
# 1.HOME PAGE







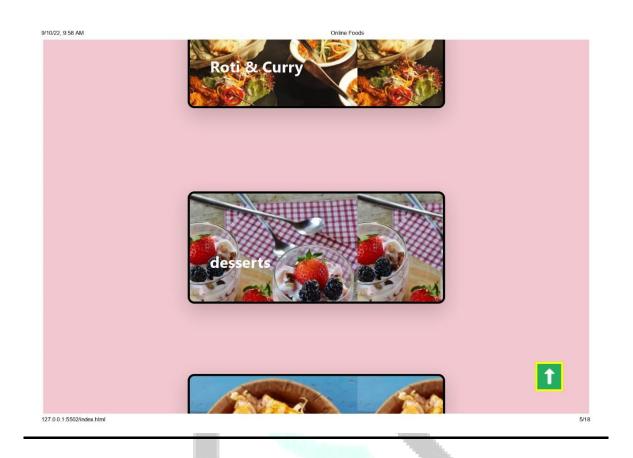




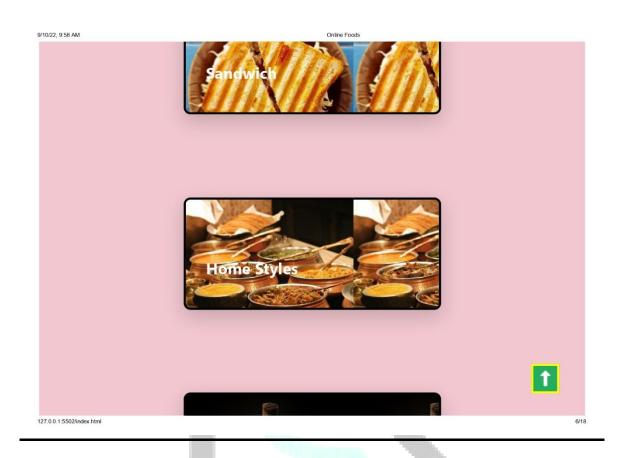




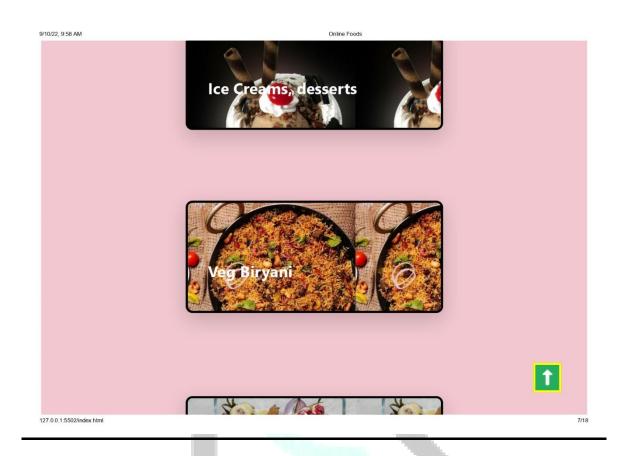


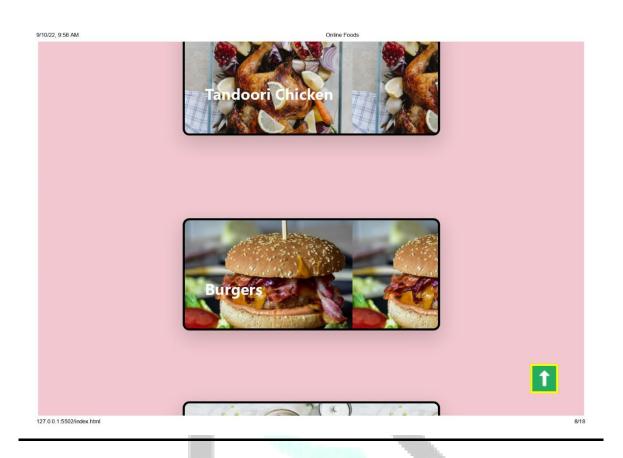








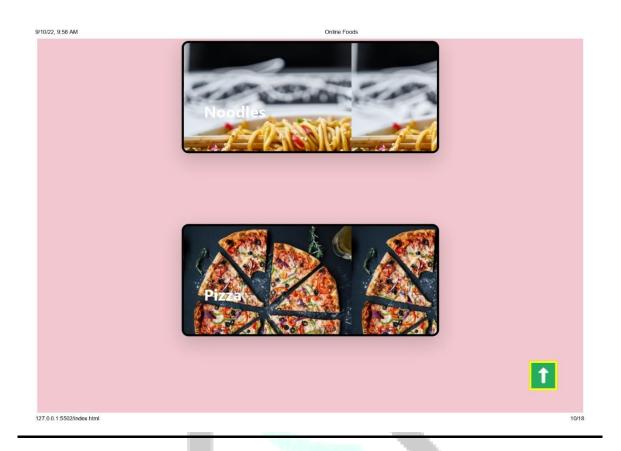




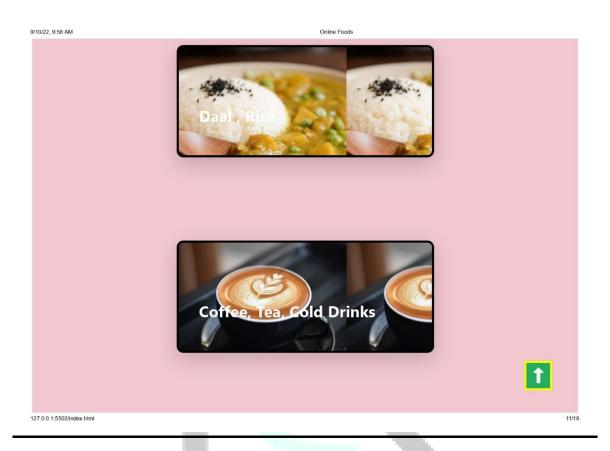




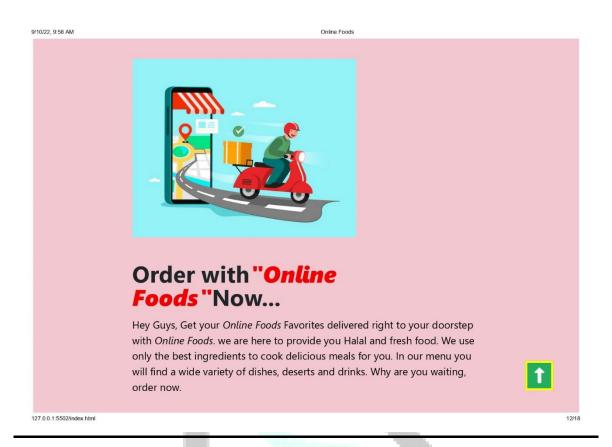


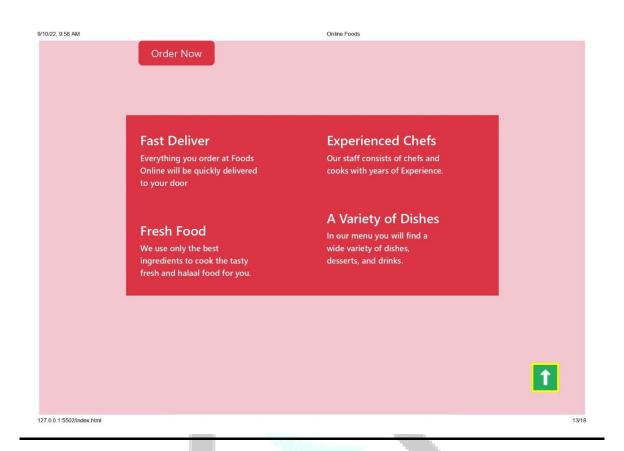




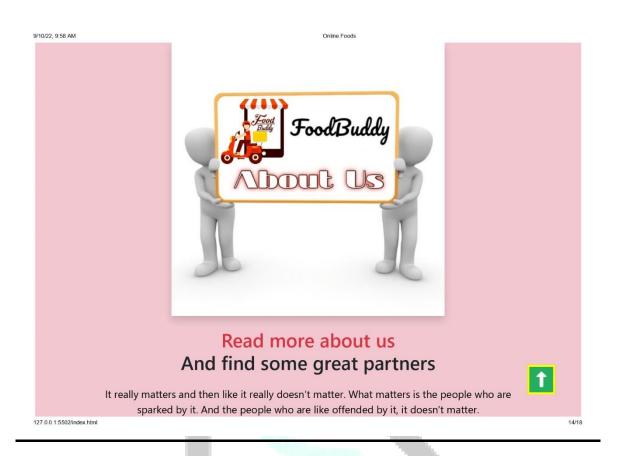


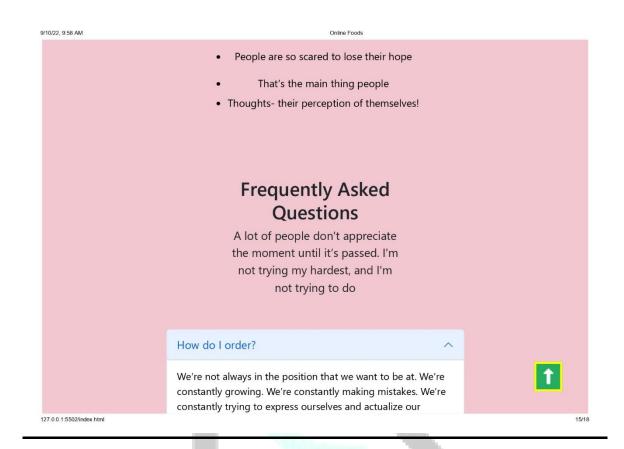




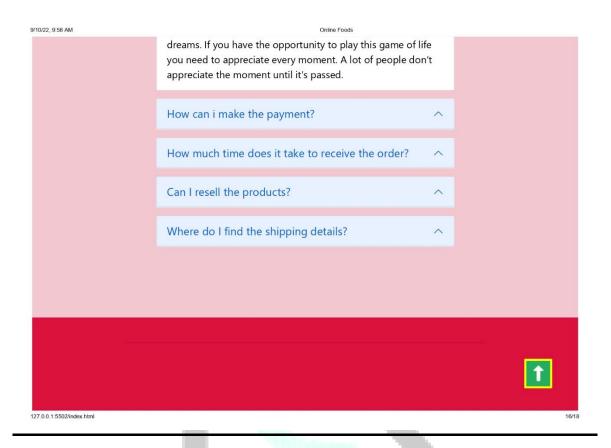






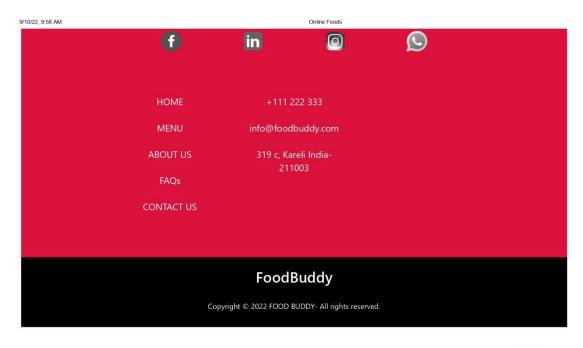










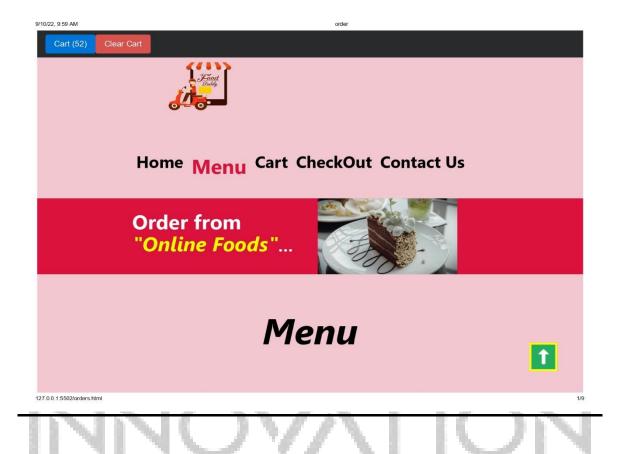


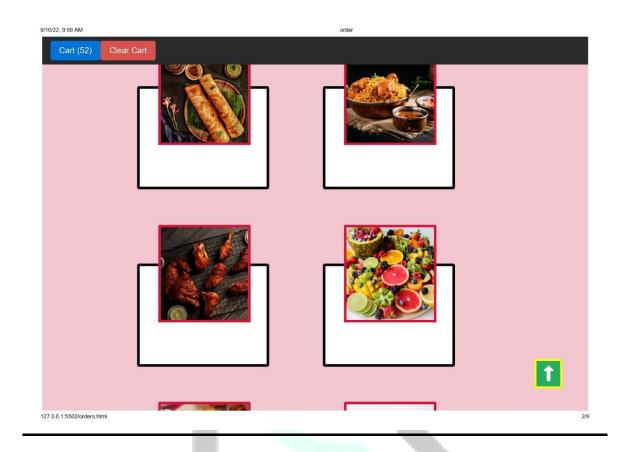


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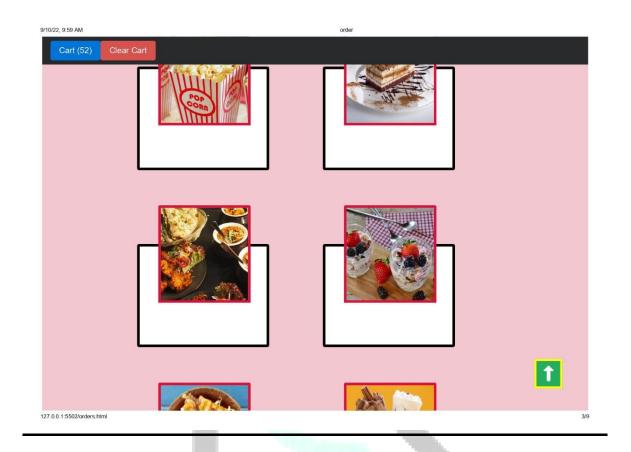


# 2. <u>MENU PAGE</u> (Note: After hovering you will see effect).

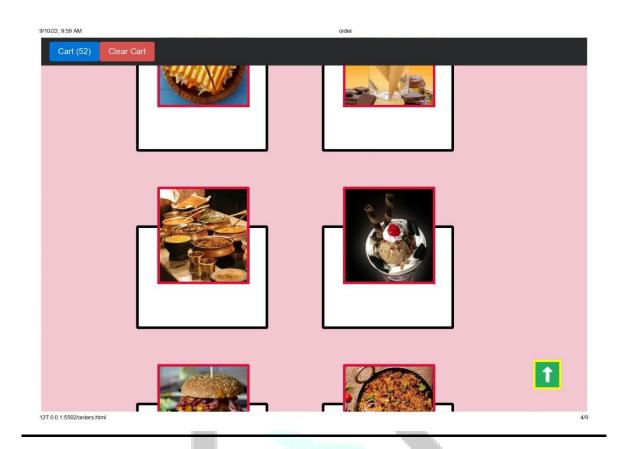




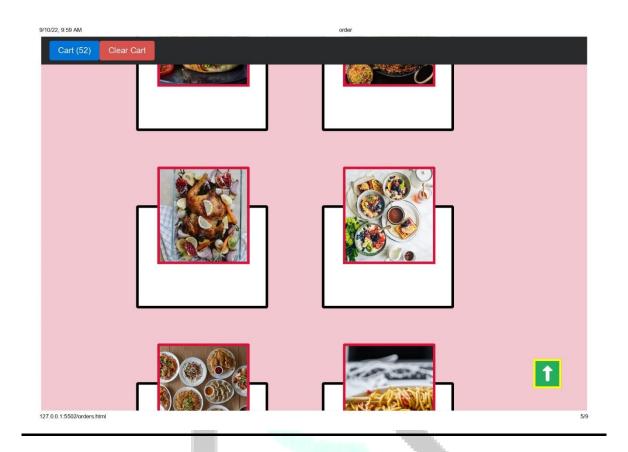




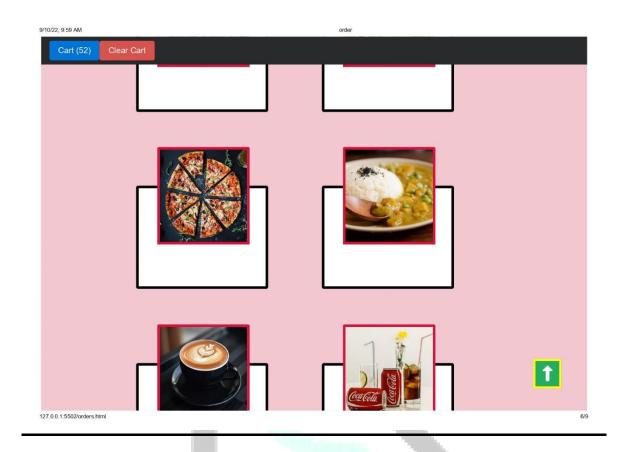




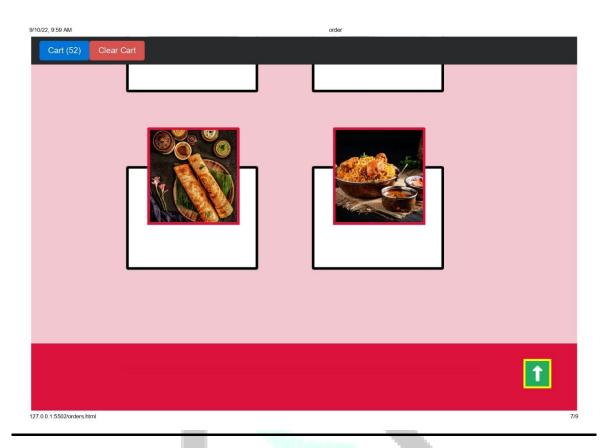


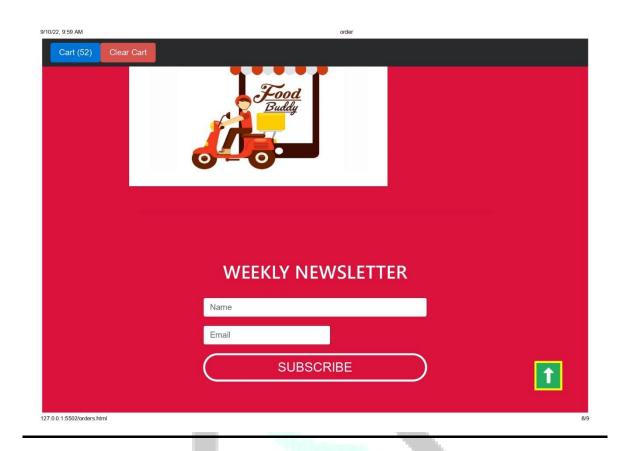




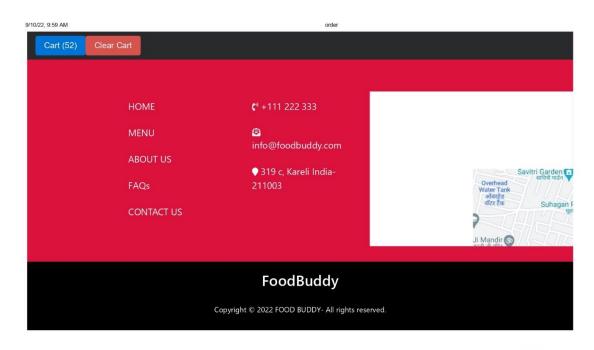










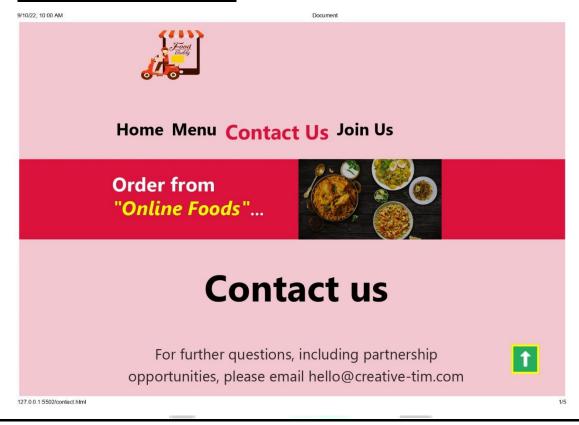




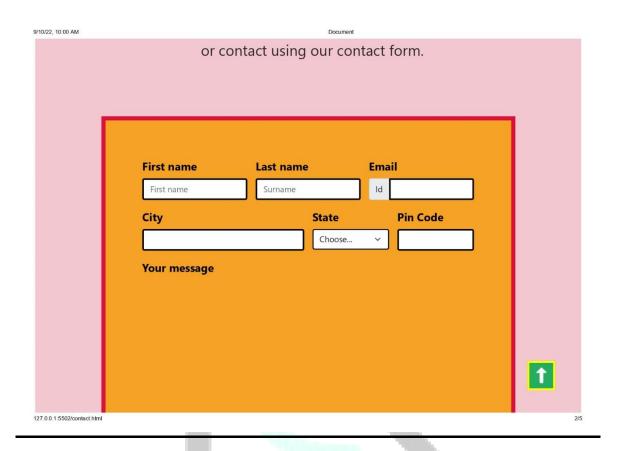
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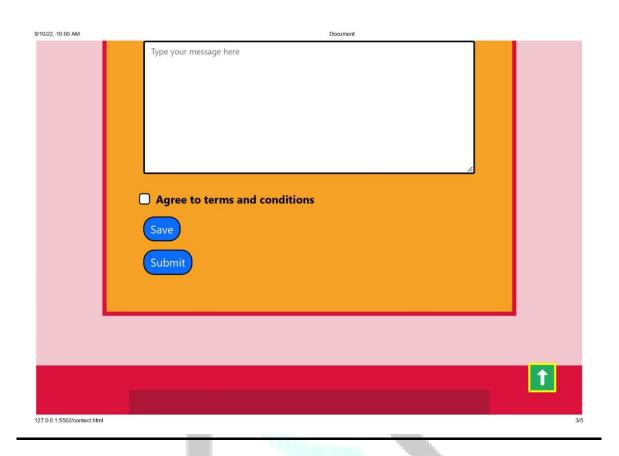


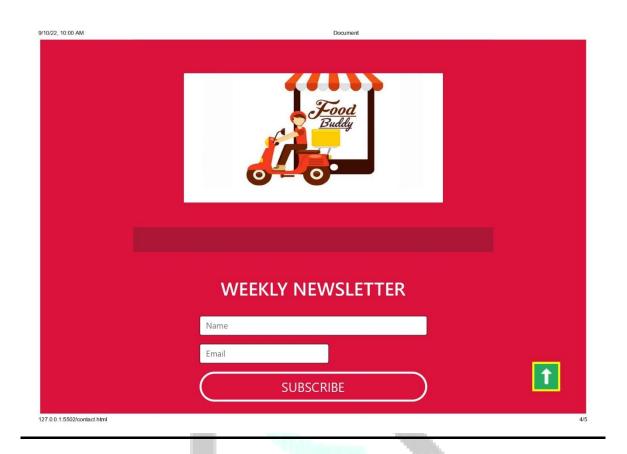
## 3.CONTACT US PAGE



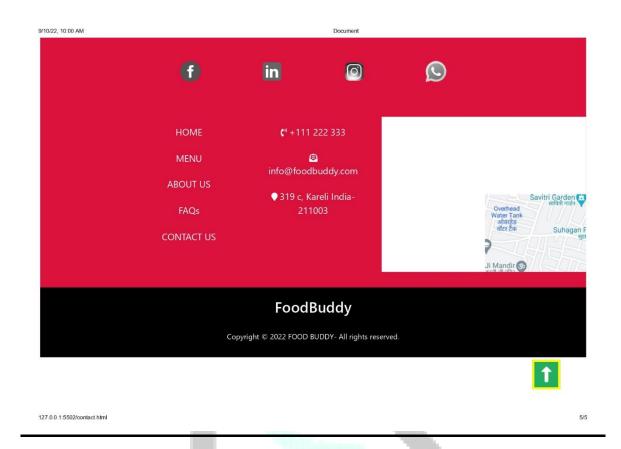




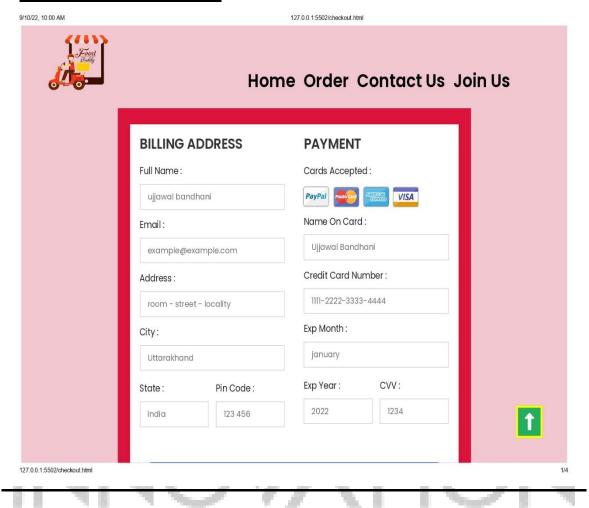


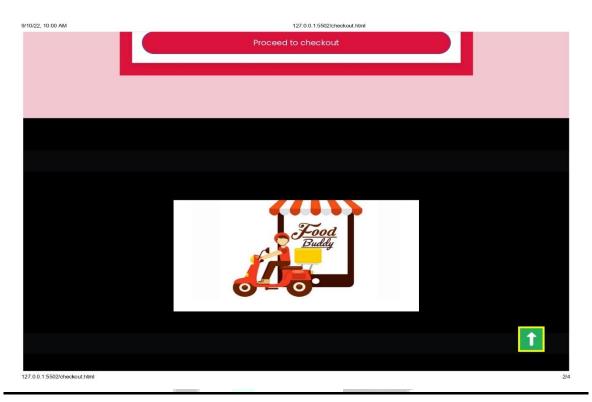


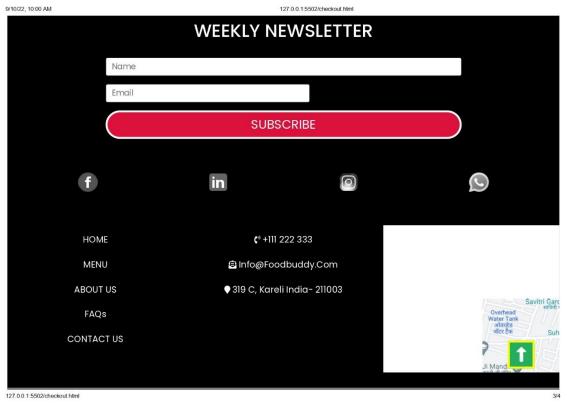




## 4. CHECKOUT PAGE







9/10/22, 10 00 AM

FOOGBUCK

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127.0.0.1:5502/checkout.html



## **CONCLUSION**

My objective was to manufacture the front end of the site venture given by TCR Innovation. I have taken every necessary step utilizing HTML and CSS and adapted well about these subjects. The coursework appropriately set me up for the expert substance of the temporary job. I confronted a few difficulties while doing the CSS cushioning and situating the site substance. After work, I've figured out how to work in an expert way. In a nutshell, this internship has been an excellent and rewarding experience. I can conclude that there have been a lot I've learnt from my work at the research center. Needless to say, the technical aspects of the work I've done are not flawless and could be improved provided enough time. As someone with no prior experience in JavaScript whatsoever I believe my time spent in research and discovering new languages was well worth it and contributed to finding an acceptable solution to an important aspect of web design and development. Two main things that I've learned the importance of are time-management skills and self- motivation. Although I have often stumbled upon these problems at College, they had to be approached differently in a working environment.

