VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belagavi-590018

A INTERNSHIP REPORT ON

"RESPONSIVE FOOD RESTAURANT WEBPAGE ON FULL STACK WEB DEVELOPMENT"

Submitted in partial fulfilment of the requirement for the degree of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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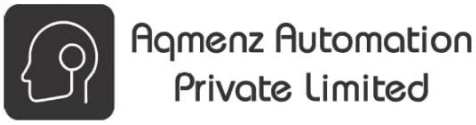

Department of Computer Science & Engineering

RAJIV GANDHI INSTITUTE OF TECHNOLOGY

Cholanagar, R. T. Nagar Post, Bengaluru-560032

2023-2024

RAJIV GANDHI INSTITUTE OF TECHNOLOGY

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Cholanagar, R.T. Nagar Post, Bengaluru-560032

Department of Computer Science & Engineering

CERTIFICATE

This is to certify that the Internship Report entitled **"RESPONSIVE FOOD RESTAURANT WEBPAGE ON FULL STACK WEB DEVELOPMENT"** is a bonafide work carried out by **Mr. SANTHOSH P (1RG20CS050)** in partial fulfilment for the award of **Bachelor of Engineering** in **Computer Science Engineering** under **Visvesvaraya Technological University**, Belagavi, during the year **2023-2024**. It is certified that all corrections/suggestions given for Internal Assessment have been incorporated in the report. This Internship report has been approved as it satisfies the academic requirement.

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1.	
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

. DECLARATION

We hereby declare that the Internship work entitled **"RESPONSIVE FOOD RESTAURANT WEBPAGE ON FULL STACK WEB DEVELOPMENT"** submitted to the **Visvesvaraya Technological University, Belagavi** during the academic year **2023-2024**, is record of an original work done by us under the guidance of **Mrs. KAVYASHREE J , Assistant Professor, Department of Computer Science and Engineering, Rajiv Gandhi Institute of Technology, Bengaluru** and this Internship work is submitted in the partial fulfilment of requirements for the award of the degree of **Bachelor of Engineering in Computer Science & Engineering.** The results embodied in this report have not been submitted to any other University or Institute for award of any degree or diploma

SANTHOSH P (1RG20CS050)

CERTIFICATE OF INTERNSHIP

ACKNOWLEDGEMENT

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SANTHOSH P (1RG20CS050)

ABSTRACT

In today's rapidly evolving digital landscape, creating a **"RESPONSIVE FOOD RESTAURANT WEBPAGE"** is essential to cater to the diverse needs and preferences of online users. A responsive webpage refers to a design that seamlessly adjusts and optimizes across various devices, including desktops, tablets, and smartphones, providing an exceptional user experience. Our envisioned responsive food restaurant webpage is a fusion of aesthetic appeal, functionality, and user-friendly features. The design embodies the essence of the restaurant's brand, showcasing enticing visuals of delectable dishes, a welcoming ambiance, and a glimpse into the culinary journey patrons can expect. At the core of this webpage is a strategic layout that ensures effortless navigation. A clean and intuitive menu structure guides visitors to explore different sections, including the menu, about us, specials, reservations, and contact information. The menu section vividly showcases the diverse array of culinary delights offered, accompanied by high-quality images and detailed descriptions to entice the senses and evoke anticipation. To cater to the modern, on-the-go lifestyle, our webpage incorporates a simplified, yet efficient, reservation system. Users can easily make reservations through a streamlined interface, selecting their preferred date, time, and the number of guests. This feature enhances the overall user experience by providing convenience and ease of access. Moreover, integrating social media feeds and customer reviews prominently on the webpage helps establish trust and credibility. It effectively represents the brand, entices visitors to explore the menu, make reservations, and connect with the restaurant, setting the stage for a delightful dining experience.

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COMPANY PROFILE

CHAPTER 1

COMPANY PROFILE

1.1 Formation of company

Aqmenz Automation Private Limited is a private incorporated on 15th October 2018. It is classified as non-Govt Company and is registered at Registrar of companies, Bangalore.

1.2 Brief history of company

Aqmenz Automation Pvt Ltd (AAPL) was started on October 2018. It is situated in northern part of Bangalore, RT Nagar Karnataka. AAPL provides Mechanical Design & Automation solutions to their client companies. AAPL also involved in Open-source Robotics and developed different varieties of Robots.

Aqmenz also started INDOSKILL, a separate platform for the students to get training and work on various Real Time Industrial Projects. Indoskill offers skill-oriented hands-on training through an online platform.

Field of Expertise: Open-source Robotics, Industrial Automation, Product Design, Python and Deep Learning and Embedded Systems.

1.3 Major Milestones:

We have under gone many industrial projects. Our major clients are BIAL (Bangalore International Airport Limited), GE (General Electric) and Amics technologies.

1.4 Vision and mission

Our Motto and Vision are to create awareness & training young generation to current and future jobs demands and also help to current and future jobs demand; meanwhile help the students and employees to meet the mandatory necessities of future human resources and skill demands. We are in the 4th industrial revolution. The technological revolution is catastrophic like never before, hence continues awareness for the up-gradation environment is much essential. Aqmenz Automation Pvt. Ltd. is working to help and enhance the potential of students and employees. So that future human resources will be very beneficial, purposeful and profitable to the nation.

1.5 Objectives

• AAPL had a trust in Skill India mission & vision, hence our utmost priority is to add skill to the young Generation and make them Profitable and productive for the nation.

• We aim in Providing Industrial Automation Training Skill module kits to Institution University's & Collage Lab Facilities with Lowest Possible Price for Benefits of Technical Students.

• Identifying young entrepreneurs and motivate, training them to establish Start-up to create Employment as well as prosperity for the nation.

• Consultation, Sourcing and supplying highly skilled Manpower to Industry for better efficiency and productivity.

• Providing low cast & precise industrial automation solutions.

• Very eager to fetch solution for most complex industrial problems in a mode.

1.6 About the company

The organization structure is having three different departments such as design department, software department and sales and marketing.

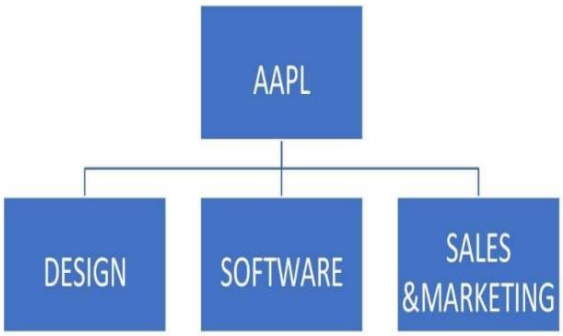


figure 1.1 Organisation structure

1.7 Services offered

• Provides Design & Automation solutions.

• All type of automation projects to companies using PLC's, SCADA embedded systems.

• We provide robots and robotic solutions to small and medium scale companies.

• Embedded solutions to companies like GE

• We conduct technical skill-oriented training programs to engineering colleges.

• We also provide robotics and automation lab equipment's for colleges.

Number of people working in company and their responsibilities

There are 20 persons in this company, out of which:

• Mr. Mohan V S, Chief Executive Officer (CEO)

• Mohammed Azhar Hussain, Chief Technology Officer (CTO)

1.8 Ongoing projects

• Automation related projects

• CNC Machines

• Open-source Custom Robots

• Garment Industry slider project

INTRODUCTION

CHAPTER 2

INTRODUCTION

Welcome to a culinary adventure where flavours come alive and tastes reach new heights! Our responsive food restaurant website invites you to explore a delightful array of delectable dishes, each meticulously crafted to tantalize your taste buds. From savoury starters to mouthwatering mains, and heavenly desserts, we offer an enticing menu that caters to every palate. In this digital space, we have seamlessly blended the art of gastronomy with cutting-edge technology, ensuring a seamless and enjoyable experience for our visitors across various devices. Whether you're browsing on a desktop, a tablet, or a smartphone, our website adapts to your screen, preserving the visual appeal and functionality of our offerings. In this culinary digital realm, you'll not only discover our diverse menu but also immerse yourself in the ambience and essence of our restaurant. Through captivating visuals, insightful stories, and intuitive navigation, we aim to bring the warmth and hospitality of our physical establishment into the digital realm. Join us on this virtual gastronomic journey, where we strive to make your online visit as appetizing and satisfying as a visit to our restaurant. Be prepared to savour the flavours, feast your eyes on delightful presentations, and embark on an experience that marries technology with the love for food. Our website is designed to be responsive and easy to use on any device. You can browse our menu, make a reservation, order online, or contact us with any questions or feedback. You can also follow us on social media to get the latest updates and offers. We look forward to serving you at Spice It Up, where every bite is an adventure!

- In this internship program we have done a project.
- Project: **Responsive food restaurant webpage**
- The software used in designing is Visual Studio Code.

TOOLS EXPOSED

CHAPTER 3

TOOLS EXPOSED

3.1 Visual Studio Code

Visual Studio Code (VS Code) is a highly versatile and widely adopted source-code editor developed by Microsoft, known for its flexibility, robustness, and extensive customization options. With an intuitive and user-friendly interface, it caters to both beginners and seasoned developers. Its cross-platform compatibility ensures a seamless experience across Windows, macOS, and Linux. One of its standout features is the extensive extension ecosystem, enabling developers to tailor the editor to their specific needs. Additionally, VS Code boasts comprehensive language support, featuring built-in syntax highlighting, code completion, and debugging for a wide array of programming languages. The integrated terminal facilitates command execution within the editor, streamlining the development workflow. Moreover, it seamlessly integrates with popular version control systems like Git, aiding version tracking and collaborative coding efforts. Live Server extension offers real-time web application preview, while intelligent code navigation features enhance productivity. Combined with powerful debugging tools, an integrated task runner, and extensive language support, VS Code stands as a preferred choice for developers seeking a highly customizable and efficient coding environment.

DETAILED ANALYSIS OF TASK PERFORMED

CHAPTER 4

DETAILED ANALYSIS OF TASK PERFORMED

Web development refers to the process of building, creating, and maintaining websites and web applications. It involves a combination of programming languages, frameworks, tools, and technologies that are used to develop the structure, layout, functionality, and content of a website. Web development can be broadly divided into two categories: front-end development and back-end development. Frontend development involves creating the user interface and visual design of a website using languages such as HTML, CSS, and JavaScript. Back-end development involves creating the server-side functionality of a website, such as storing and retrieving data, using languages such as PHP, Python, and Ruby. Web developers use a range of tools and technologists to create websites and web applications, including web design software, text editors, version control systems, and web development frameworks. They also need to stay up-to-date with the latest trends and technologies in the field to ensure that their websites are optimized for speed, security, and functionality. Successful web development projects require careful planning, effective project management, and collaboration between designers, developers, and stakeholders. The end result should be a website that meets the needs of the client and provides a positive user experience for visitors.

4.1.1 Week 1 – HTML and CSS

HTML is the standard markup language for creating Web pages.

1. What is HTML?

• HTML stands for Hyper Text Markup Language

• HTML is the standard markup language for creating Web pages

• HTML describes the structure of a Web page

• HTML consists of a series of elements

• HTML elements tell the browser how to display the content

• HTML elements label pieces of content such as "this is a heading", "this is a paragraph", "this is a link", etc.

• The declaration defines that this document is an HTML5 document

• The element is the root element of an HTML page

4.1.2 Week 2 – CSS

CSS is the language we use to style a Web page. What is CSS?

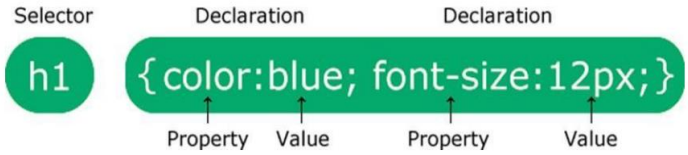
• CSS stands for Cascading Style Sheets

• CSS describes how HTML elements are to be displayed on screen, paper, or in other media

• CSS saves a lot of work. It can control the layout of multiple web pages all at once

• External stylesheets are stored in CSS files

CSS Syntax:



The selector points to the HTML element you want to style. The declaration block contains one or more declarations separated by semicolons. Each declaration includes a CSS property name and a value, separated by a colon. Multiple CSS declarations are separated with semicolons, and declaration blocks are surrounded by curly braces. An external style sheet can be written in any text editor, and must be saved with a .CSS extension.

The external .CSS file should not contain any HTML tags. Three Ways to Insert CSS: There are three ways of inserting a style sheet:

• External CSS

• Internal CSS

• Inline CSS

External CSS:

With an external style sheet, you can change the look of an entire website by changing just one file. Each HTML page must include a reference to the external style sheet file inside the element, inside the head section.

Internal CSS:

An internal style sheet may be used if one single HTML page has a unique style. The internal style is defined inside the head section.

Inline CSS:

An inline style may be used to apply a unique style for a single element. To use inline styles, add the style attribute to the relevant element. The style attribute can contain any CSS property.

CSS Layout - The display Property:

The display property is the most important CSS property for controlling layout

The display Property:

The display property specifies if/how an element is displayed. Every HTML element has a default display value depending on what type of element it is. The default display value for most elements is block or inline

4.1.3 Week 3 - ReactJS

React is a JavaScript library that aims to simplify development of visual interfaces.

1. How much JavaScript we need to know to use React?

   • Before jumping straight into React, you should have a good understanding of some core JavaScript concepts.

   • Variables

   • Arrow functions

   • Work with objects and arrays using Rest and Spread

   • Object and array destructuring

   • Template literals

   • Classes

   • Callbacks

   • Promises

   • Async/Await

   • ES Modules

2. Why should we learn React?

   That's because of a few reasons:

   1. React is very popular. As a developer, it's quite likely that you're going to work on a React project in the future. Perhaps an existing project, or maybe your team will want you to work on a brand-new app based on React.

   2. A lot of tooling today is built using React at the core. Popular frameworks and tools like Next.js, Gatsby and many others use React under the hood.

   3. As a frontend engineer, react is probably going to come up in a job interview. Those are all good reasons, but one of the reasons I want you to learn React is that it's great. It promotes several good development practices, including code reusability and components-driven development. It is fast, it is lightweight and the way it makes you think about the data flow in your application perfectly suits a lot of common scenarios.

4.1.4 Week 4 – JavaScript

JavaScript (JS) is the most popular lightweight, interpreted compiled programming language. It can be used for both client side as well server side as development. JavaScript also known as a scripting language for web pages.

Reasons to learn JavaScript JavaScript is used by many developers (65% of the total development community), and the number is increasing day by day. JavaScript is one such programming

language that has more than 1444231 libraries and increasing rapidly. It is preferred over any other programming language by most developers. Also, major tech companies like Microsoft, Uber, Google, Netflix, and Meta use JavaScript in their projects. JavaScript can be added to your HTML file in two ways:

• Internal JavaScript

• External JavaScript

How JavaScript makes HTML build-website better

• JavaScript is an advanced programming language that makes web pages more interactive and dynamic whereas HTML is a standard markup language that provides the primary structure of a website.

• JavaScript simply adds dynamic content to websites to make them look good and HTML work on the look of the website without the interactive effects and all.

• JavaScript manipulates the content to create dynamic web pages whereas HTML pages are static which means the content cannot be changed.

• JavaScript is not cross-browser compatible whereas HTML is cross-browser compatible.

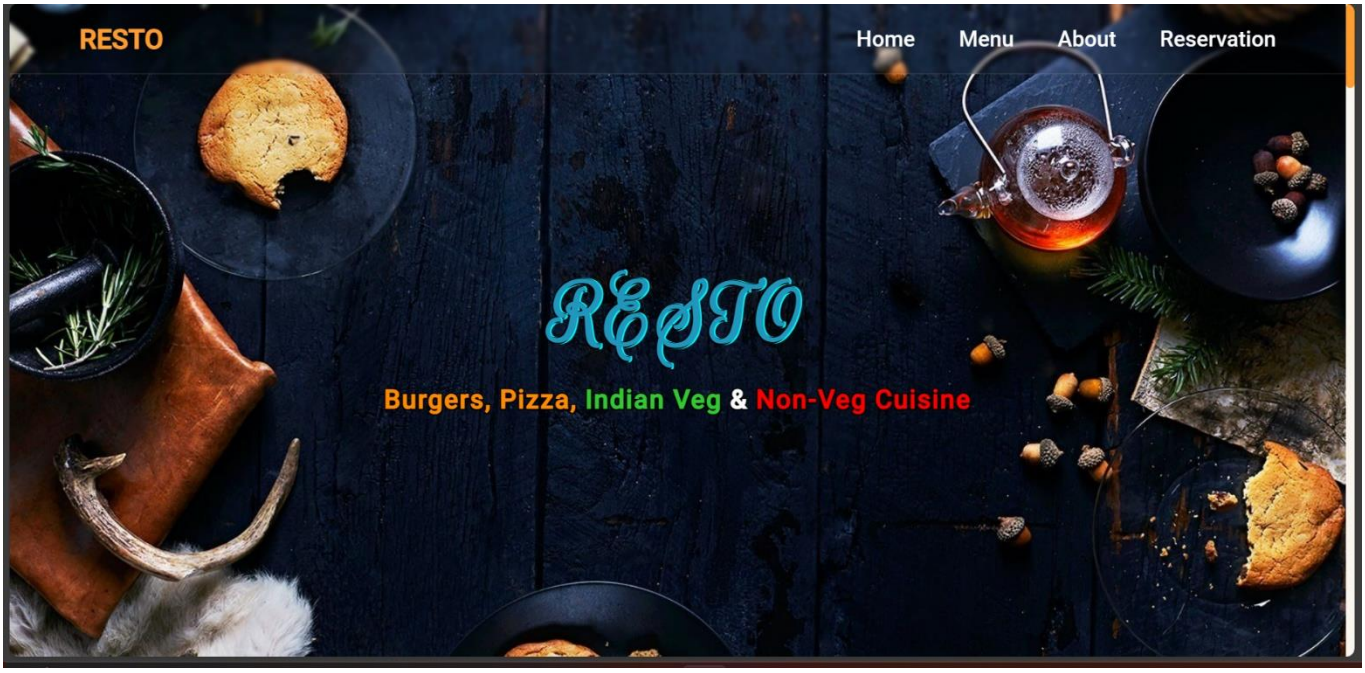
• JavaScript can be embedded inside HTML but HTML cannot be embedded inside JavaScript.

RESPONSIVE FOOD RESTAURANT WEBPAGE SCREENSHOTS

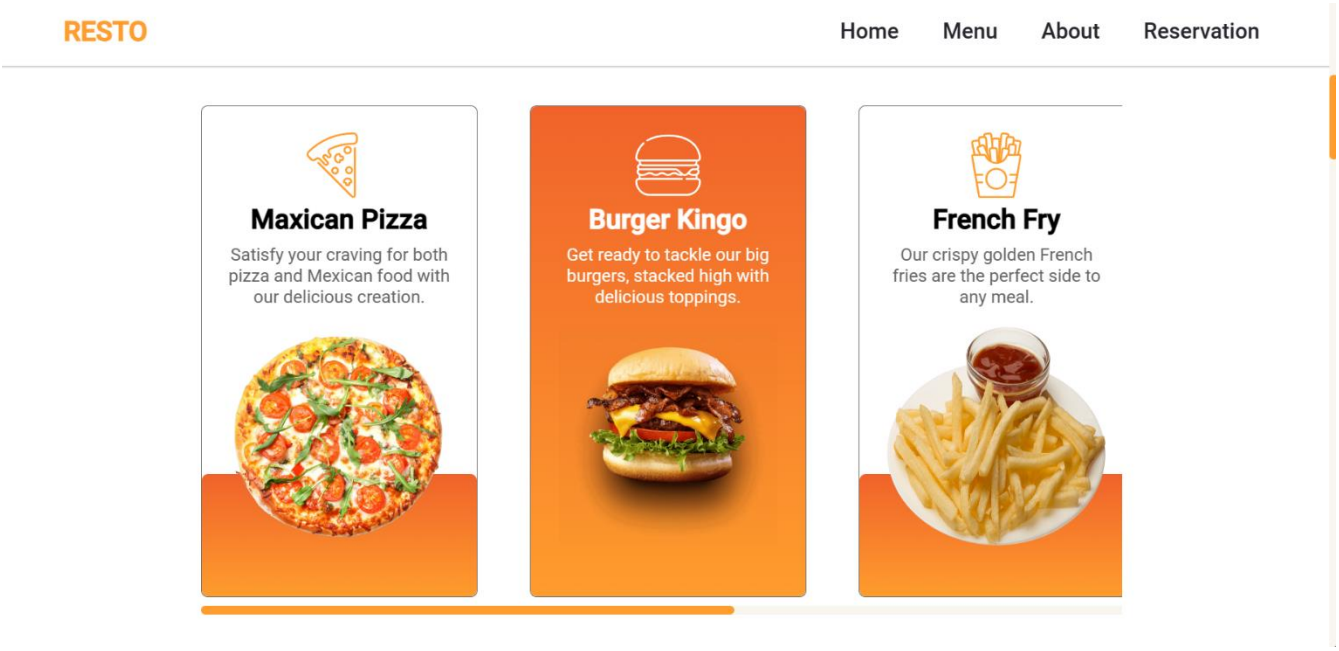
CHAPTER 5

RESPONSIVE FOOD RESTAURANT WEBPAGE SCREENSHOTS

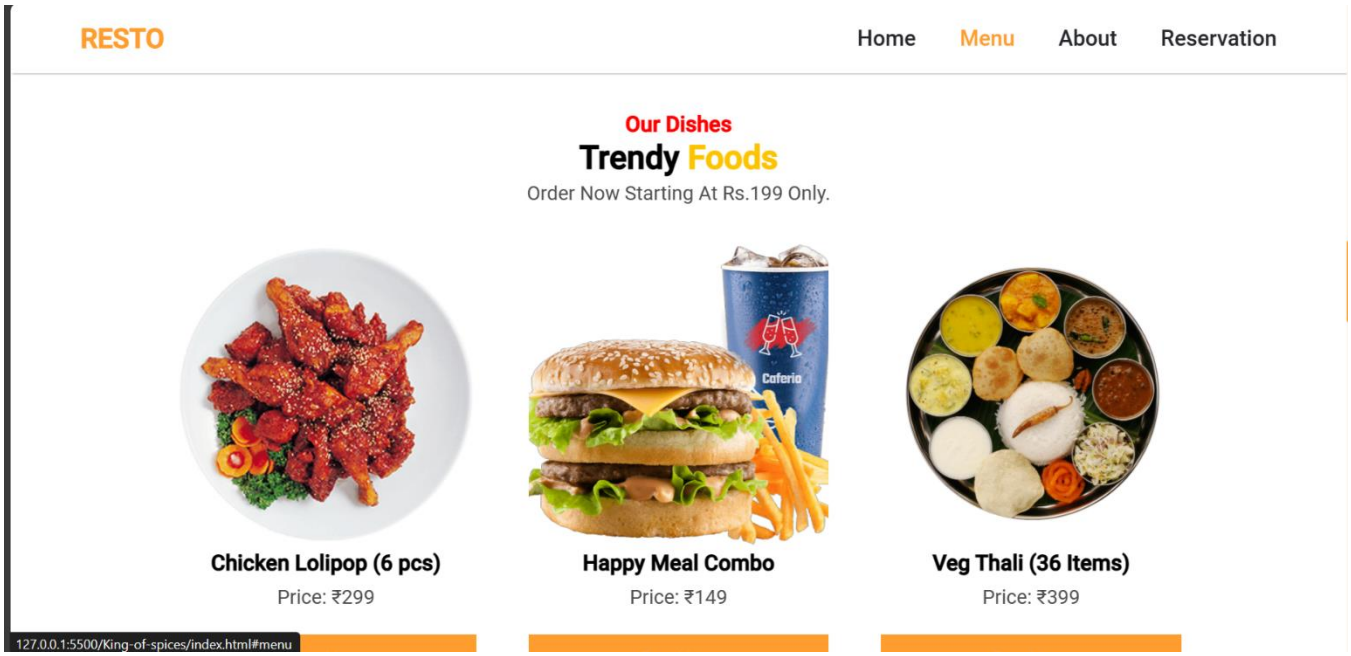
5.1 Home page-1



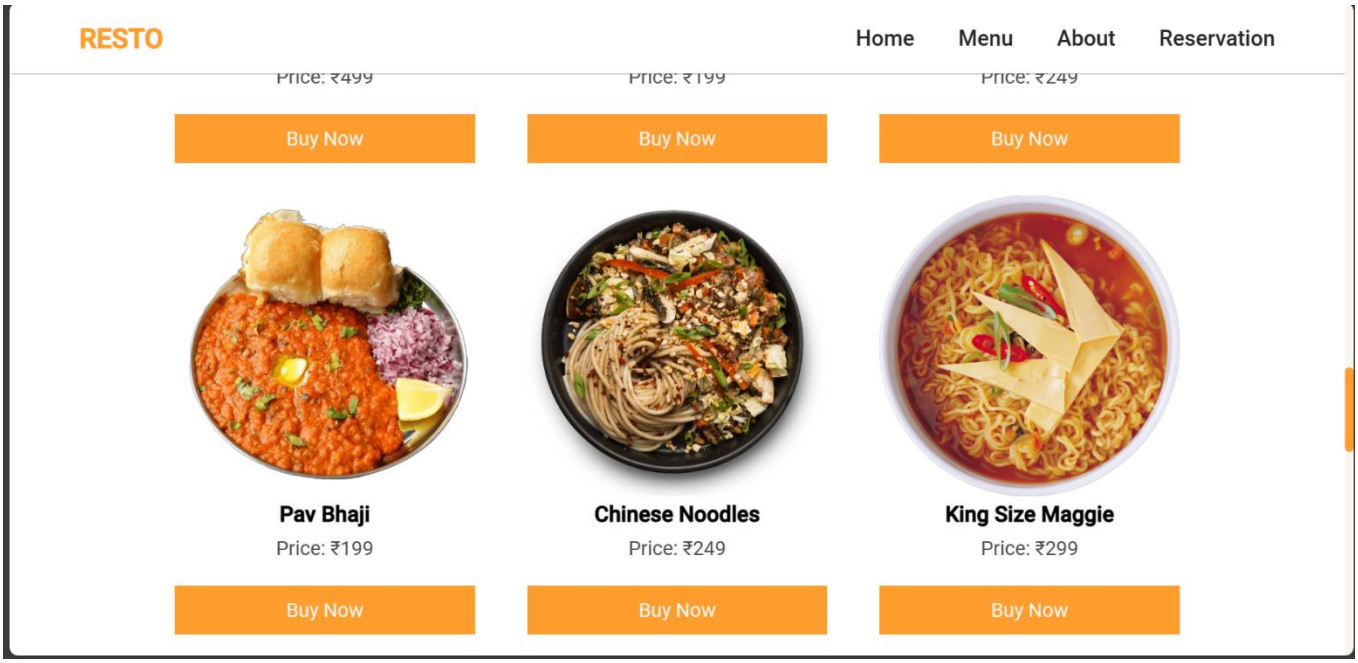
5.2 Home page-2



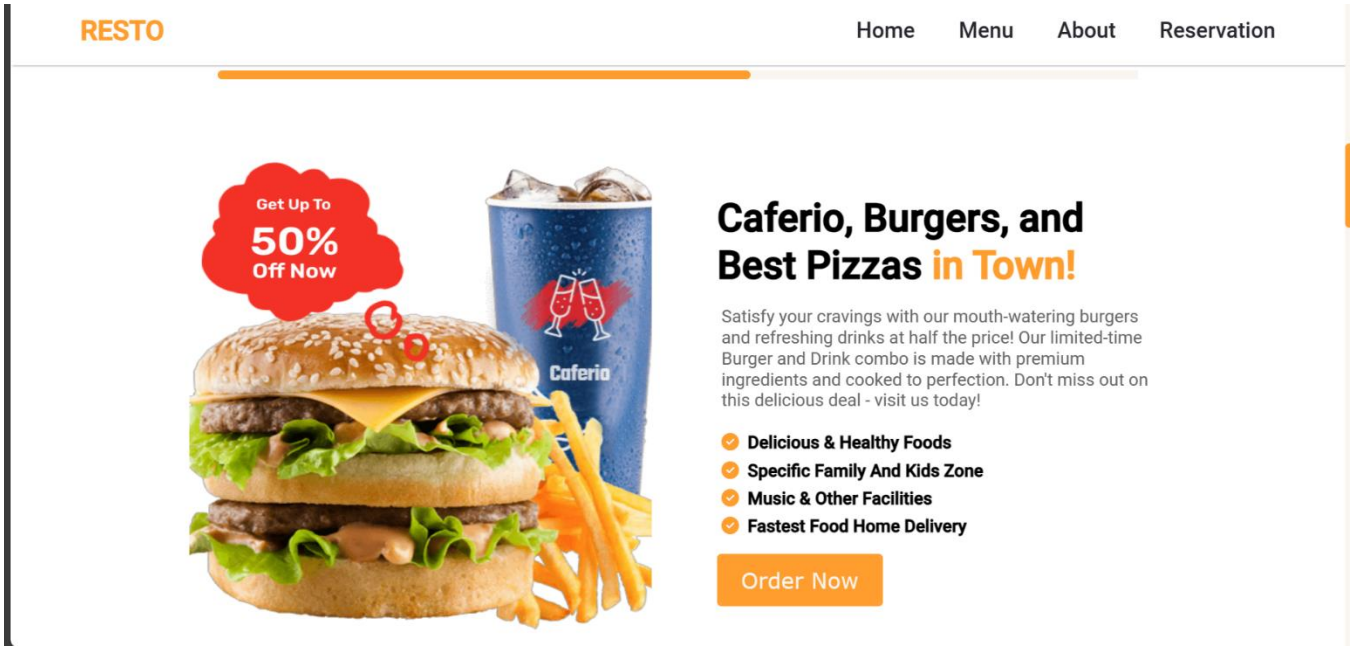
5.3 Menu page-1



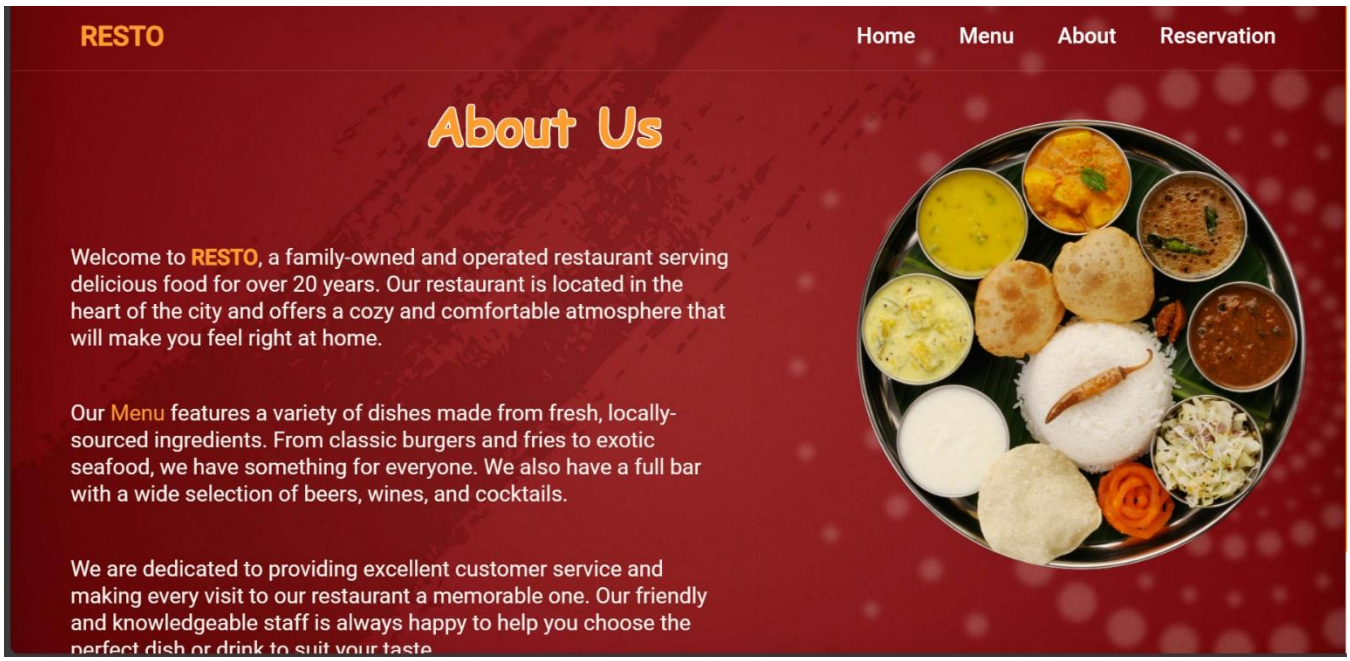
5.4 Menu page-2



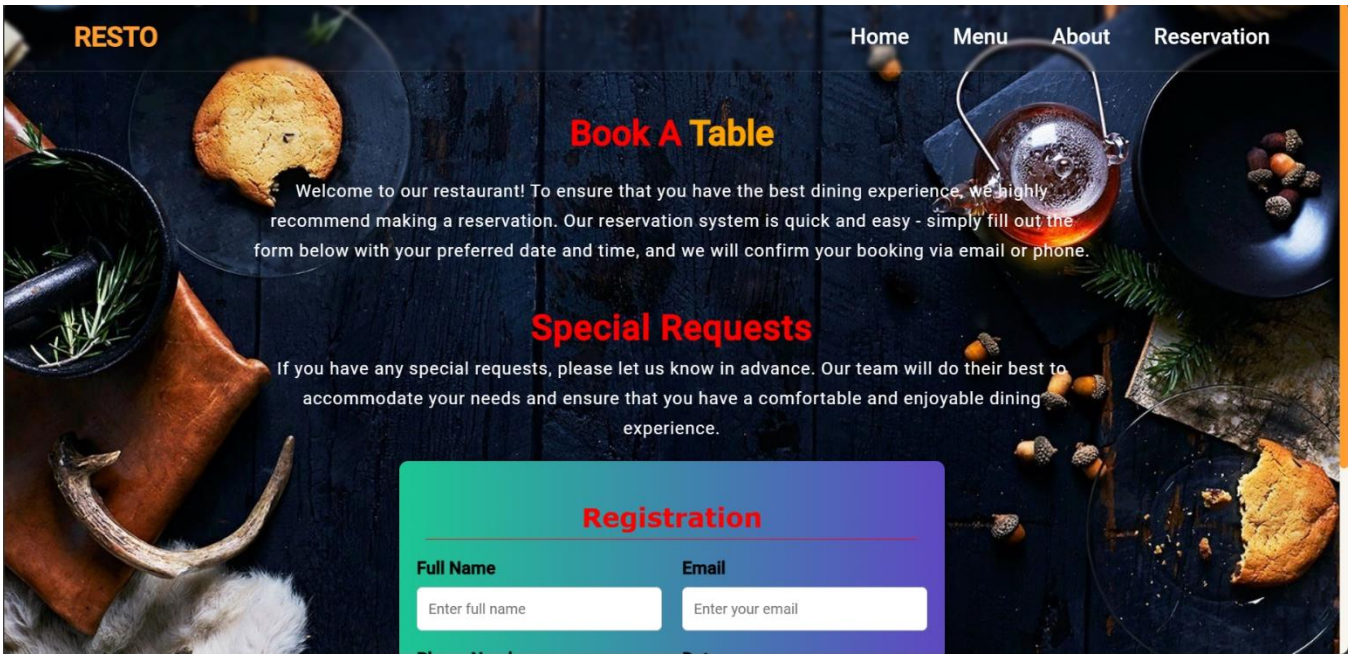
5.5 Special Menu page



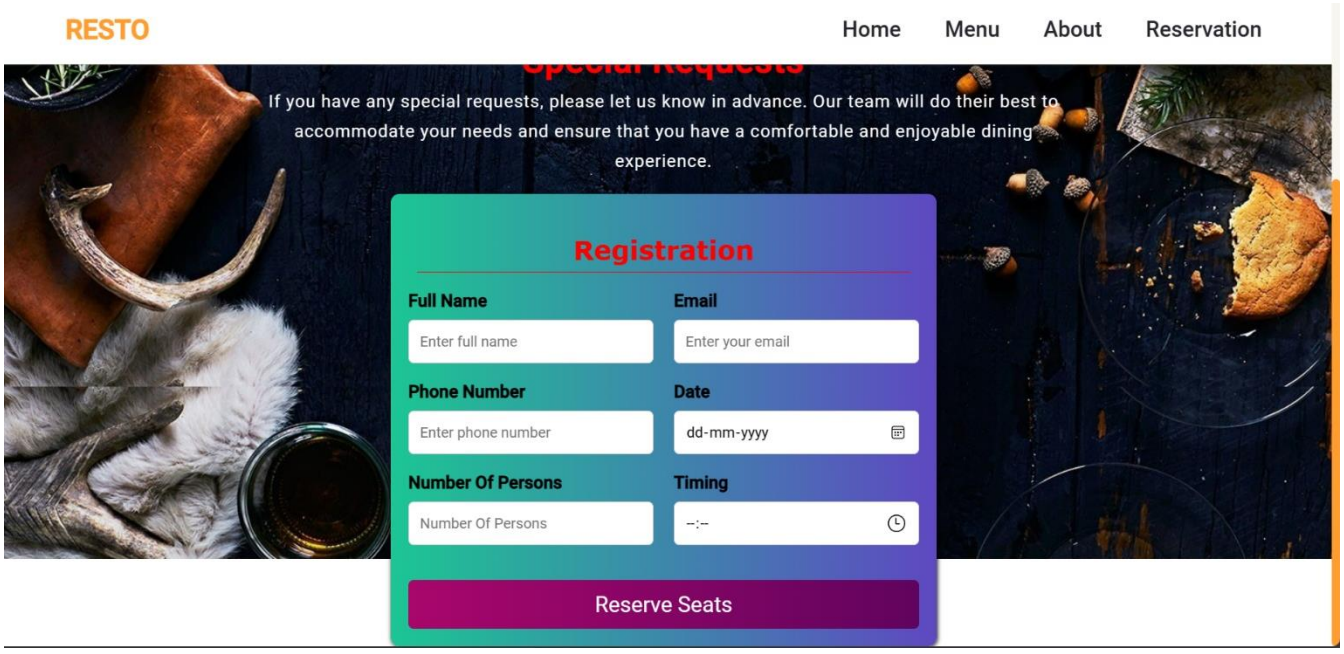
5.6 About us page



5.7 Booking a table page



5.8 Registration page



REFLECTION NOTES

CHAPTER 6

REFLECTION NOTES

6.1 WORK EXPERIENCE

• The working environment AQMENZ AUTOMATION PRIVATE LIMITED is good.

• Improved my Googling skill by learning things through Google which were required for the work.

• Seniors were very informative and helpful.

• Gained knowledge on Project development life cycle.

• Learned how project is decided, how project is assigned to employees, how project works.

• Learned to design web app using React JS and improved communication skills.

• Internship was great opportunity to know the company environment.

• Improved presentation skills and learned how to co-ordinate with other employees.

• Gained management skills.

• Gained leadership skills.

• Learned how to work under pressure and to be in a professional environment.

• Got opportunity to interact with clients and understand their requirements.

6.2 PROBLEMS/CHALLENGES

• The internship was much different from college academics and it takes little time to adjust to the environment and schedule.

• Initially it was a difficult to understand the works assigned to us.

• Every Sunday we had meetings and React JS was new to us so we learnt it.

• Developing the work which was done by others took lot of time for me to understand how the code works.

6.3 TECHNICAL OUTCOMES

• Developing a technical artifact requiring new technical skills.

• Using profession specific terminology appropriately.

• Effectively utilizing the tools and resources to complete a task.

• Creating training materials.

• Maintaining and troubleshooting technology.

• Analysing or visualizing data to create information.

• Writing requirements documentation.

• Selecting appropriate technologies.

• Acquiring and evaluating information

• Creating or modifying technology policies

• Performing effective and informative user testing.

• Identifying and creating appropriate test cases for systems.

6.4 NON-TECHNICAL OUTCOMES

• Demonstrating understanding of professional customs and practices.

• Organizing and maintaining information.

• Applying knowledge to the task

• Negotiating and arriving at a decision

• Working with diversity/diverse populations.

• Identifying, understanding and working with professional standards.

• Working in cross-cultural and/or multicultural settings.

• Learning how to learn.

• Improving problem-solving and critical thinking skills.

• Monitoring and correcting performance.

• Exercising leadership

• Behaving professionally.

• Behaving ethically and listening effectively.

• Addressing colleagues and superiors appropriately.

• Allocating time effectively and teaching others.

• Adapting effectively to changing conditions.

• Participating as a member of a team.

• Developing appropriate workplace attitudes.

• Understanding and managing personal behaviour and attitudes.

• Developing individual responsibility

6.5 SKILLS

• Can acquire and evaluate information - can identify need for data, can obtain it from existing sources or can create it, and can evaluate its relevance and accuracy.

• Can organize and maintain information - can organize, process and maintain written or computerized records and other forms of information in a systematic fashion.

• Can interpret and communicate information - can select and analyse information and communicate the results to others using oral, written, graphic, pictorial, or multimedia methods.

• Can use computers to process information - can employ computers to acquire, organize, analyse and communicate information.

• Can exercise leadership - can communicate thoughts, feelings and ideas to justify a position; can encourage, persuade, convince, or otherwise motivate an individual or group, including responsibly challenging existing procedures, policies or authority.

• Can negotiate - can work towards an agreement that may involve exchanging specific resources or resolving divergent interests.

• Can work with cultural diversity - can work well with men and women and with variety of ethnic, social or educational backgrounds.

6.6 BENEFITS OF DOING INTERNSHIP

Gain Valuable Work Experience

An internship provides the opportunity to gain hands on work experience that is not possible to get in the classroom and also companies train interns and help in gaining the experience required to get a job.

Have an Edge in the Job Market

Employers are usually more concerned with the work experience than the qualifications and internships are often the only way to get the work experience that is required to secure a job, so pursuing internship have a vital role in the resume. Many employers prefer or require applicants pursuing internship or relevant work experience. Hence by having an internship experience the resume gets weightage.

Transition into a Job

Employers see interns as prospective employees, so by performing well one can finish internships and continue working with the company full time. Internships are the number one way for employers to find new staffs and employees to find a new job with experience.

Networking Opportunities

Internships are a great way to meet people in specific field of our interest. An internship allows meeting people who might help in getting a job later on and give the contacts of the industry to which we are interested and break into it. Plus, references from people in the industry will really add weight to the application.

Apply Classroom Knowledge

An internship can be seen as the pinnacle of the education and give a chance to use the skills learned in the classroom in a real-world setting. It’s a chance to prove the worth of the qualifications and to show the ability to perform a role that has been assigned.

Gain Confidence

Getting experience is a great way to build the confidence. Having an impressive resume will help in boosting the confidence level and it increases the chances of securing a job.

CONCLUSION

CHAPTER 7

CONCLUSION

In conclusion, our restaurant's responsive food webpage epitomizes our commitment to delivering an exceptional online experience. By meticulously designing a platform that seamlessly adapts to various devices and screen sizes, we prioritize accessibility, usability, and aesthetics. With a focus on a flexible layout, fast loading times, and a mobile-first approach, we aim to reduce bounce rates and enhance user satisfaction. Our user-friendly interface simplifies menu browsing and ordering, while integrated social media links encourage engagement and broaden our reach. Continuously striving for improvement, we ensure our website evolves alongside technological advancements and customer needs, ensuring a delightful experience for all who visit our virtual restaurant. We stand ready to embrace future innovations, guaranteeing that our online presence remains at the forefront of the dining experience.

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CHAPTER 8

BIBLIOGRAPHY

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