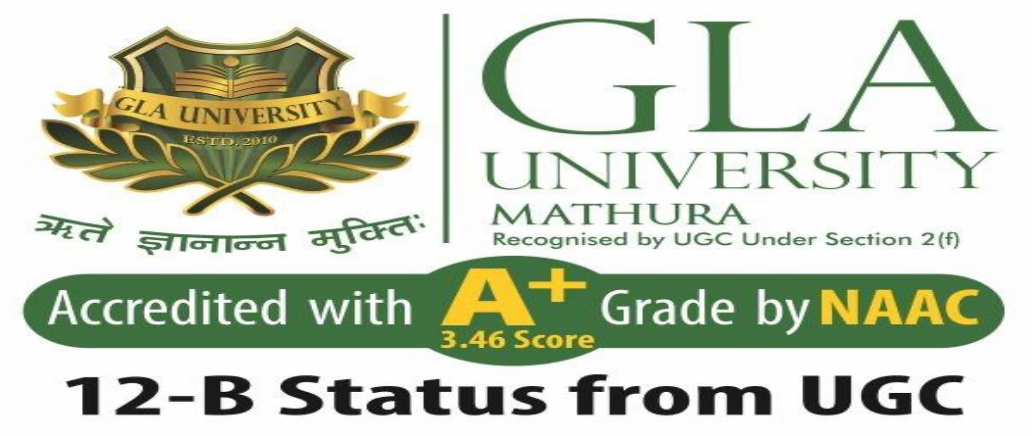
MINI PROJECT

(2022-23)

"FOOD STREET WEBSITE"

PROJECT REPORT



Institute of Engineering & Technology

Department of Computer Engineering

& Applications

Submitted By-

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Under the supervision of

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Department of computer Engineering and Applications

GLA University, Mathura

17 km. Stone NH#2, Mathura-Delhi Road, P.O. – Chaumuha,

Mathura – 281406

Declaration

We hereby declare that the work which is being presented in the Bachelor of Technology. Project **"Food Street Website"**, in partial fulfillment of the requirements for the award of the ***Bachelor of Technology*** in Computer Science and Engineering and submitted to the Department of computer Engineering and Applications of GLA University, Mathura, is an authentic record of our own work carried under the supervision of **Mr. Mandeep Singh, Technical Trainer, GLA University.**

The contents of this project report, in full or in parts, have not been submitted to any other institute or University for the award of any degree.

Group Members:-

Mayank Upadhyaya (201500397)

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Course: B.Tech (Computer Science and Engineering)

Year: 3rd

Semester: 6th

Department of computer Engineering and Applications

GLA University, Mathura

17 km. Stone NH#2, Mathura-Delhi Road, P.O. – Chaumuha,

Mathura – 281406

Certificate

This is to certify that the project entitled "Food Street Website", carried out in Full Stack Project, is a Bonafide work by Mayank Upadhyaya, Priyanshi, Vishal Dixit and is submitted in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology (Computer Science & Engineering).

Signature of Supervisor: _____

Name of the Supervisor: Mr. Mandeep Singh (Technical Trainer)

Dept. of CEA, GLA University

Date: April 29, 2023

Training Certificates

Mayank Upadhyaya

Certificate in Network Management and Web Development

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Priyanshi

acmegrade

INTERNSHIP
CERTIFICATION

This is to certify that

Mr./Ms. PRIYANSHI

has successfully completed her/his internship in Web Development from 10-Jun-2022 to 10-Aug-2022. During this period the student was found to be dedicated, determined and hardworking.

Certificate number: AGI2206325
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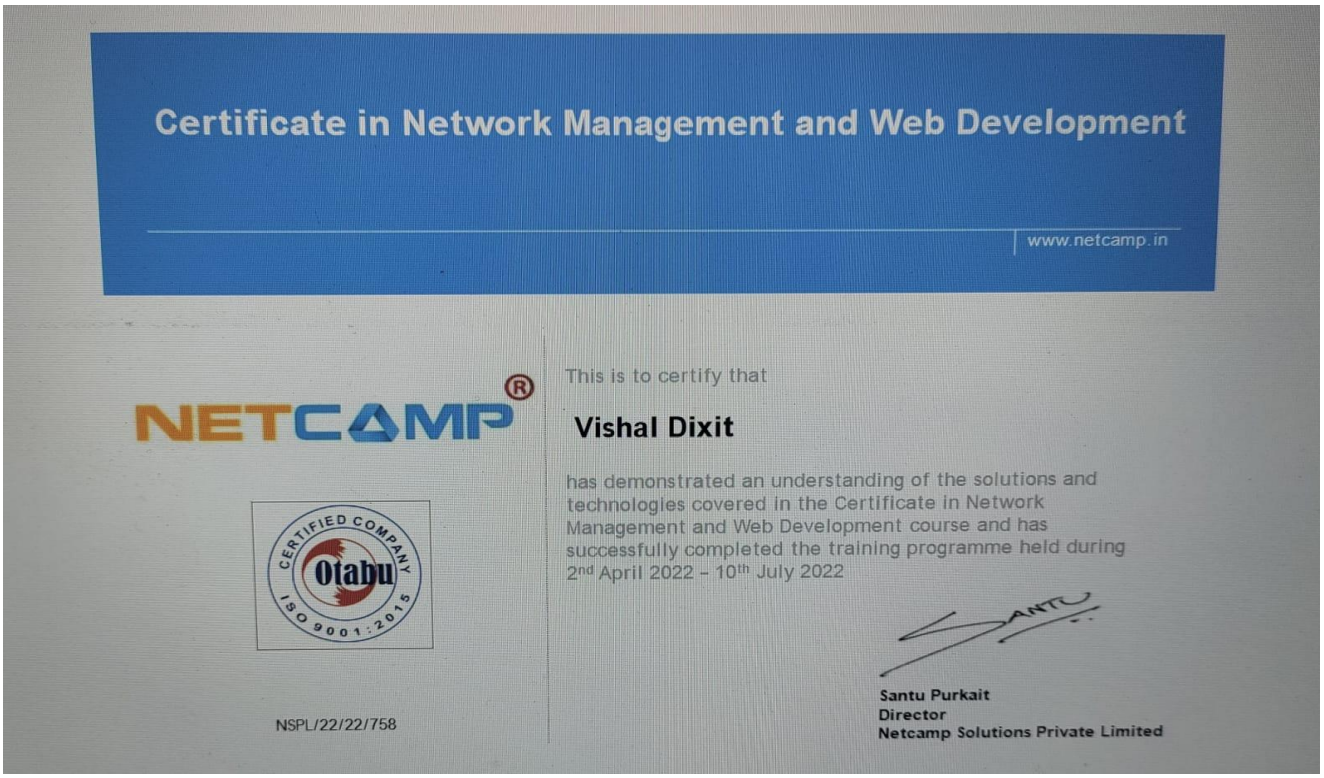
Challa Rohit
Academic Head

Vishal Dixit



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Acknowledgement

We would like to express my gratitude to Mr. Mandeep Singh for guiding us throughout the project. I also feel thankful and express my kind gratitude towards all our faculty members for allowing us to Food Street website project. The mentioned Project was done under the supervision of Mr. Mandeep Singh.

He has been helping us since Day 1 on this project. He provided us with the roadmap,the explaining how to work on the project. He has been conducting regular meetings to check the progress of the project and provide us with the resources related to the project. Without his help, we wouldn't have been able to complete this project.

We feel thankful to the college staff for giving me such a big opportunity. I believe we will enroll in more such events in the coming future.

Thanking You

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ABSTRACT

A “Food Street Website" is a comprehensive online platform dedicated to exploring the diverse culinary experiences available on the streets of various cities around the world. The website provides a one-stop-shop for food lovers to discover and learn about local street food, popular food vendors, and unique dining experiences in different cities.

The website's content is organized into various categories, such as "Top Food Streets," "Street Food Tours," "Food Vendor Spotlights," and "Foodie Recommendations." Each category offers a range of articles, reviews, videos, and images that provide detailed information about the best places to eat, what to order, and what makes each street food unique.

In addition to the wealth of information available on the website, offers interactive features such as community forums, ratings, and reviews, allowing users to share their own experiences and recommendations. The website's user-friendly interface and intuitive navigation make it easy to explore and discover the best street food options in any city.

Overall, It is an indispensable resource for foodies and travellers alike, offering a comprehensive guide to the diverse and delicious world of street food.

CONTENT

Chapter: 1

Introduction

Overview

Welcome to the Food Street Website, your one-stop destination for exploring, discovering, experiencing, and ordering delicious food from the comfort of your home! Our website is designed to be a comprehensive online food delivery platform that brings together food lovers and food vendors, providing a seamless and convenient way to satisfy your cravings with just a few clicks.

At Food Street Website, we understand that food is not just about dining out, but also about enjoying a wide variety of cuisines from the comfort of your own home. Our platform allows you to explore different cuisines, restaurants, and food vendors in your local area, and conveniently place orders for delivery or pickup.

With our user-friendly interface, you can easily browse through a wide selection of restaurants and food vendors, view their menus, prices, and special offers, and place orders based on your preferences. We also provide real-time order tracking, so you can know exactly when your food will arrive at your doorstep.

The Food Street Website project is developed using modern web technologies, ensuring a seamless and secure online ordering experience. Our team is committed to providing a high-quality, reliable, and user-friendly platform that makes ordering food at home a delightful experience.

So, whether you're craving your favourite comfort food, exploring new cuisines, or looking for food inspiration, Food Street Website is your go-to destination for satisfying your taste buds, right from the comfort of your home. Welcome to Food Street Website, where food delivery meets culinary exploration!

Background Study

Food street websites have become increasingly popular in recent years due to the growing interest in street food culture and the rise of food tourism. These websites aim to provide a comprehensive guide to the best street food options in various cities worldwide, catering to both local and international audiences.

Many food street websites employ a team of experienced food writers, bloggers, and photographers to create high-quality content that showcases the unique flavors and culinary traditions of each city. They also provide interactive features such as community forums, ratings, and reviews, enabling users to share their experiences and recommendations with others.

The Food Street Website project is developed using modern web technologies, ensuring a seamless and secure online ordering experience. Our team is committed to providing a high-quality, reliable, and user-friendly platform that makes ordering food at home a delightful experience.

Food street websites are valuable resources for food lovers and travelers seeking to explore the local culinary scene and discover new and exciting flavors.

The rise of food street websites has been driven by several factors, including the growing popularity of street food culture, the rise of social media, and the increasing accessibility of travel. Many food street websites have capitalized on these trends, using social media platforms such as Instagram and Facebook to showcase mouth-watering images of local street food and attract a global audience.

Overall, food street websites have played a crucial role in promoting street food culture and providing a platform for foodies and travelers to explore the diverse and delicious world of street food. They have also helped to support local food vendors and promote sustainable and ethical food practices.

Project Planning

1. Define Project Goals: The first step in project planning is to define the goals and objectives of the project. The goals of the "Food Street Website" project include your one-stop destination for exploring, discovering, experiencing, and ordering delicious food from the comfort of your home. The website aims to provide a seamless and convenient online food delivery experience for users, allowing them to browse through different cuisines, restaurants, and food vendors, view menus, prices, and special offers, and place orders based on their preferences.

2. Identify Project Scope: Once the project goals are defined, the next step is to identify the scope of the project. This includes determining the specific functionalities and features of the website, as well as the target audience and user demographics. The "Food Street Website" includes many functionalities: Online food delivery experience for users, Restaurants, Food vendors, and view menus, and is designed to provide a seamless and convenient online food delivery experience.

3. Develop Project Timeline: With the project goals and scope in place, the next step is to develop a project timeline. This includes determining the milestones and deadlines for each phase of the project, including research and development, design, testing, and deployment. The timeline should be realistic and achievable, considering potential setbacks and delays.

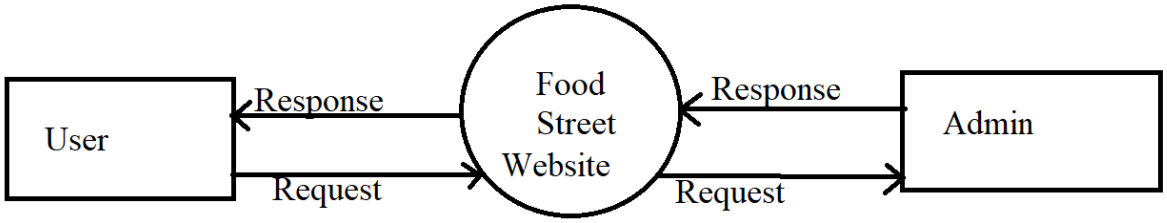
4. Assign Roles and Responsibilities: To ensure that the project runs smoothly, it is important to assign roles and responsibilities to team members. This includes determining who will be responsible for research, design, development, testing, and deployment. It is also important to ensure that team members have the necessary skills and resources to fulfill their roles effectively.

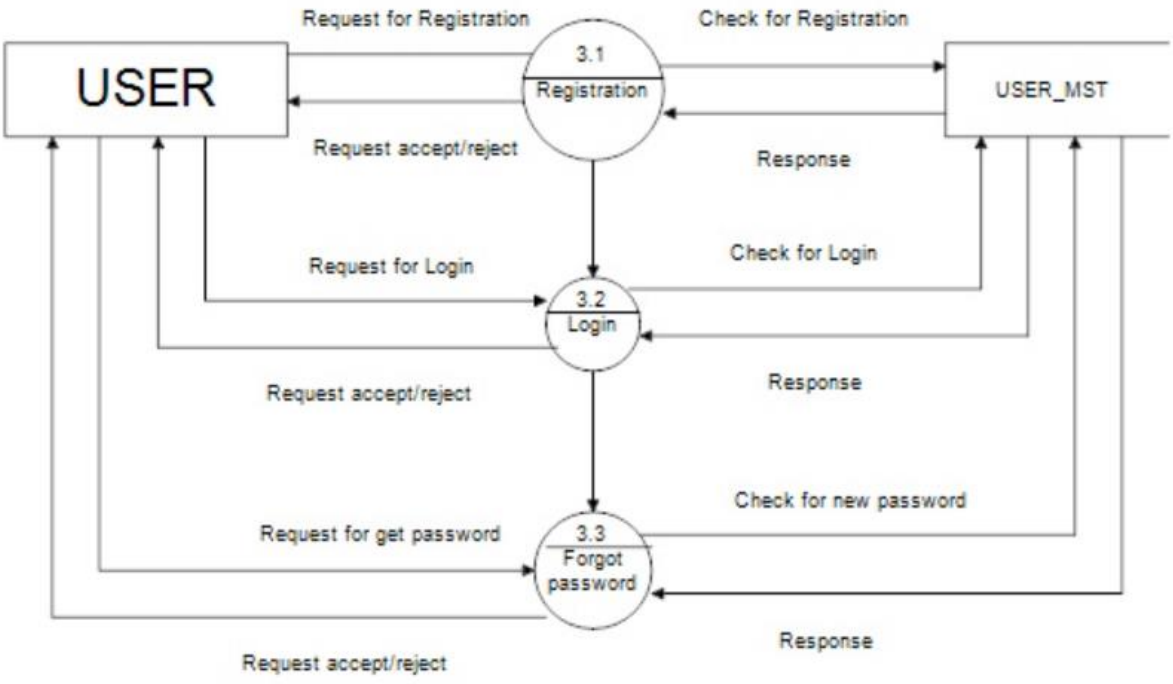
5. Monitor Progress and Evaluate Results: Throughout the project, it is important to monitor progress and evaluate results. This includes tracking milestones and deadlines, assessing the quality of the application, and gathering feedback from users. Based on this evaluation, the project team can make any necessary adjustments and modifications to ensure that the final product meets the project goals and user needs.

Chapter: 2

System Design

Design





Chapter: 3

Hardware and Software Requirements

Hardware Requirement

- Processor : Minimum Dual Core
- Operating System : Windows
- Ram : Minimum 4GB
- Hardware device : Mobile or Computer
- Storage : Minimum 512GB
- Display : Any Display

Software Requirement

- Front-end Technologies : HTML, CSS, Bootstrap
- Language Used : JavaScript
- Back-End : Firebase Authentication
- Database : Realtime Database
- IDE Used: : Vs code
- Web Browser : Chrome, Firebox, Microsoft Edge

Chapter: 4

Implementing Tools for the Project

Tools

- HTML
- CSS
- Bootstrap
- JavaScript
- Firebase Authentication

HTML

HTML stands for **Hyper Text Markup Language**, which is the most widely used languageon Web to develop web pages. **HTML** was created by Berners-Lee in late 1991 but "HTML2.0" was the first standard HTML specification which was published in 1995. HTML 4.01 was a major version of HTML and it was published in late 1999. Though HTML 4.01 versionis widely used but currently we are having HTML-5 version which is an extension to HTML4.01, and this version was published in 2012.

It is used for:

- Web development (server-side),
- Software development.

Here are some of the most common uses for HTML:

Web pages development - HTML is used to create pages which are rendered over the web. Almost every page of web is having html tags in it to render its details in browser.

Internet Navigation - HTML provides tags which are used to navigate from one page to anotherand is heavily used in internet navigation.

CSS

CSS is used to control the style of a web document in a simple and easy way.

CSS is the acronym for **"Cascading Style Sheet"**. This tutorial covers both the versions CSS1,CSS2 and CSS3, and gives a complete understanding of CSS, starting from its basicsto advanced concepts.

Applications of CSS

- **CSS saves time** - You can write CSS once and then reuse same sheet in multiple HTML pages.You can define a style for each HTML element and apply it to as many Web pages as you want.

- **Pages load faster** - If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all the occurrences of that tag. So less codemeans faster download times.

- **Easy maintenance** - To make a global change, simply change the style, and all elements in all theweb pages will be updated automatically.

- **Superior styles to HTML** - CSS has a much wider array of attributes than HTML, so you can give a far better look to your HTML page in comparison to HTML attributes.

- **Multiple Device Compatibility** - Style sheets allow content to be optimized for more than one type of device. By using the same HTML document, different versions of a website can be presented for handheld devices such as PDAs and cell phones or for printing.

- **Global web standards** - Now HTML attributes are being deprecated and it is being recommended to use CSS. So its a good idea to start using CSS in all the HTML pages to make them compatibleto future browsers.

Bootstrap

Bootstrap 5 is evolving with each release to better utilize CSS variables for global theme styles, individual components, and even utilities. We provide dozens of variables for colors, font styles, and more at a :root level for use anywhere. On components and utilities, CSS variables are scoped to the relevant class and can easily be modified.

Applications of Bootstrap:-

1. **Rapid Prototyping** - Bootstrap allows developers to quickly create wireframes and prototypes for web projects, which can save time and help to identify design issues early in the development process.

2. **Responsive Web Design-** Bootstrap's grid system makes it easy to create responsive web designs that adjust to different screen sizes and devices, without requiring additional coding or media queries.

3. **Cross-Browser Compatibility-** Bootstrap is designed to be compatible with all modern web browsers, ensuring that websites built using Bootstrap will look and function consistently across different devices and platforms.

4. **Customizable Design-** Bootstrap offers a range of customization options, such as customizable themes, styles, and components, which enable developers to create unique and visually appealing websites that match their brand or project requirements.

5. **Community Support-** Bootstrap has a large and active community of developers, which provides access to a wide range of resources, such as documentation, forums, and tutorials, making it easier for developers to learn and use the framework effectively.

6. **Integration with Other Technologies-** Bootstrap can be integrated with other web development technologies, such as JavaScript frameworks and content management systems, enabling developers to extend its functionality and create more complex web applications.

JavaScript

JavaScript is a lightweight, interpreted **programming** language. It is designed for creating network-centric applications. It is complimentary to and integrated with Java. **JavaScript** is veryeasy to implement because it is integrated with HTML. It is open and cross-platform.

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JavaScript is the most popular **programming language** in the world and that makes it a programmer's great choice. Once you learnt Javascript, it helps you developing great frontend as well as back-end softwares using different Javascript based frameworks like jQuery, Node.JS etc.

Applications of Javascript Programming:-

- **Client side validation** - This is really important to verify any user input before submitting it to the server and JavaScript plays an important role in validating those inputs at front-end itself.

- **Manipulating HTML Pages** - JavaScript helps in manipulating HTML page on the fly. This helps in adding and deleting any HTML tag very easily using javascript and modify your HTML to change its look and feel based on different devices and requirements.

- **User Notifications** - You can use JavaScript to raise dynamic pop-ups on the webpages to givedifferent types of notifications to your website visitors.

- **Back-end Data Loading** - JavaScript provides Ajax library which helps in loading

back-end data while you are doing some other processing. This really gives an amazing experience to your website visitors.

- **Presentations** - JavaScript also provides the facility of creating presentations which gives website look and feel. JavaScript provides libraries to build a web-based slide presentations.

- **Server Applications** - Node JS is built on Chrome's JavaScript runtime for building fast and scalable network applications. This is an event based library which helps in developing very sophisticated server applications including Web Servers.

Firebase

Firebase is a popular mobile and web application development platform that provides a range of backend services and tools for building and deploying high-quality applications quickly and easily.

Applications of Firebase: -

1. **Real-time Database-** Firebase's real-time database enables developers to store and sync data in real-time across multiple devices, making it ideal for

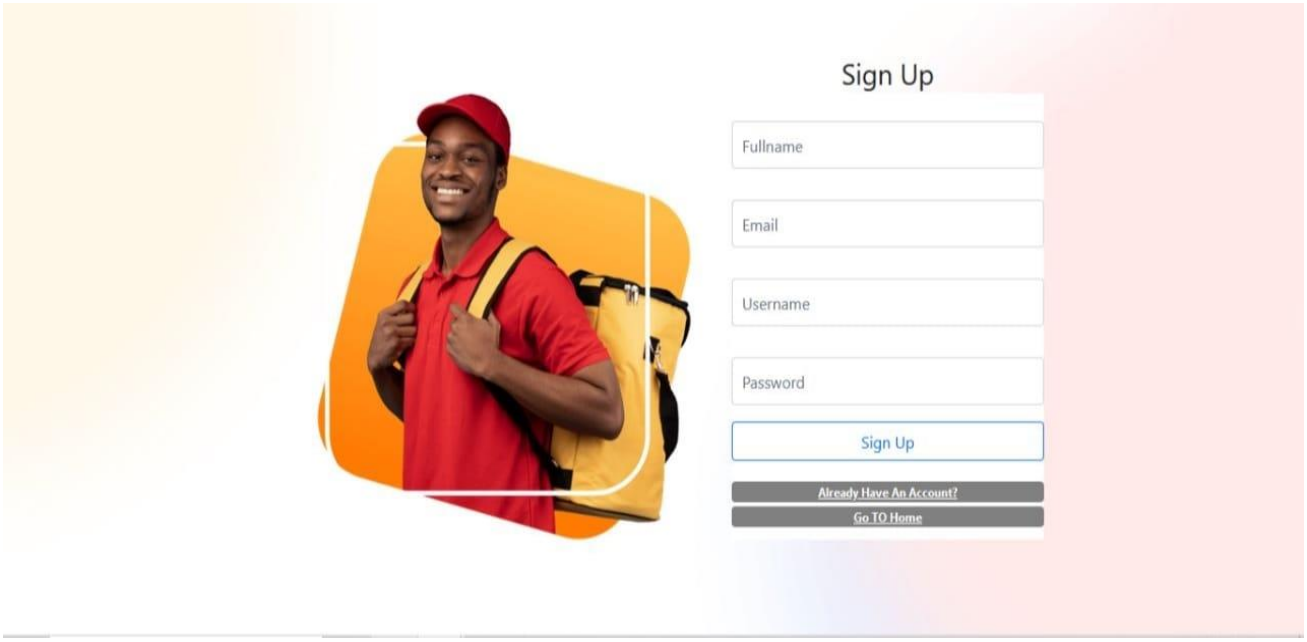
applications that require real-time updates or collaboration, such as chat applications or collaborative tools.

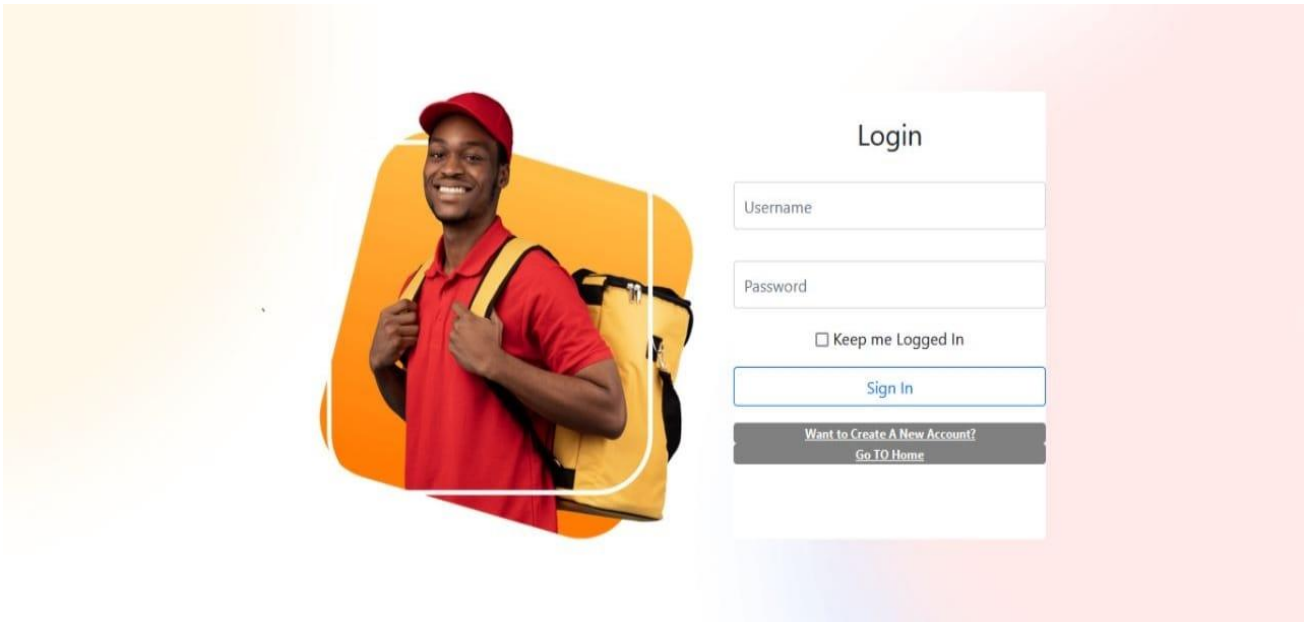
2. **Authentication-** Firebase's authentication service provides a simple and secure way for developers to authenticate users, allowing them to create custom login systems or integrate with popular social media platforms such as Google, Facebook, and Twitter.

3. **Cloud Messaging-** Firebase's cloud messaging service provides a reliable and scalable way for developers to send notifications and messages to users across multiple devices and platforms.
4. **Hosting-** Firebase provides a simple and scalable hosting service that enables developers to host and deploy web applications quickly and easily, with features such as automatic SSL encryption and content delivery network (CDN) support.
5. **Analytics-** Firebase's analytics service provides developers with insights into how users interact with their applications, including user engagement, retention, and conversion rates, allowing them to make data-driven decisions to improve the user experience.
6. **Machine Learning-** Firebase also offers a range of machine learning services, such as natural language processing and image recognition, enabling developers to build intelligent and personalized applications quickly and easily.

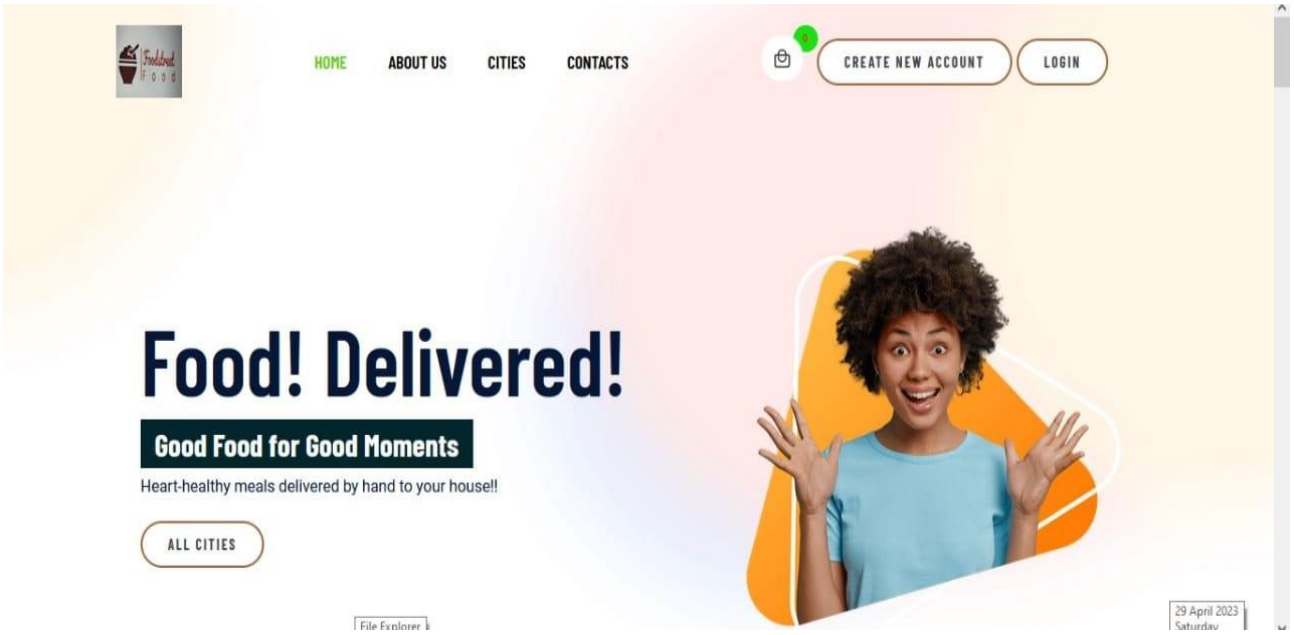
Chapter: 5
Project View Model

Sign Up/Login Page

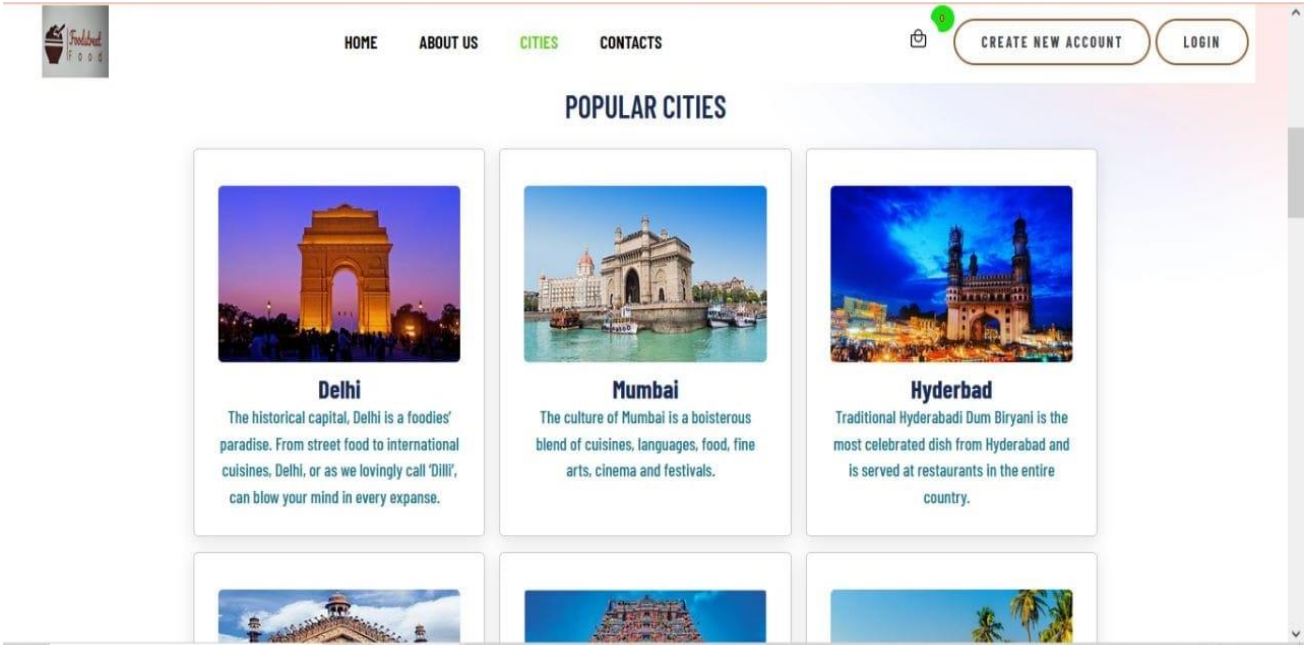




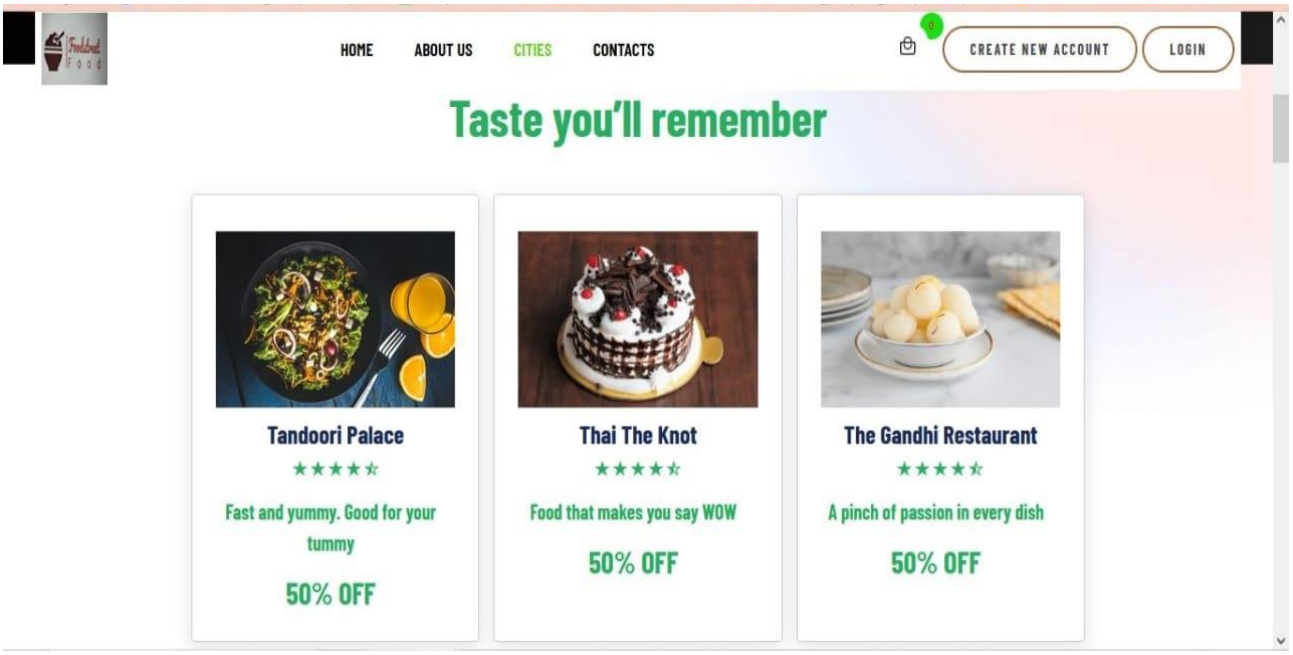
Home Page



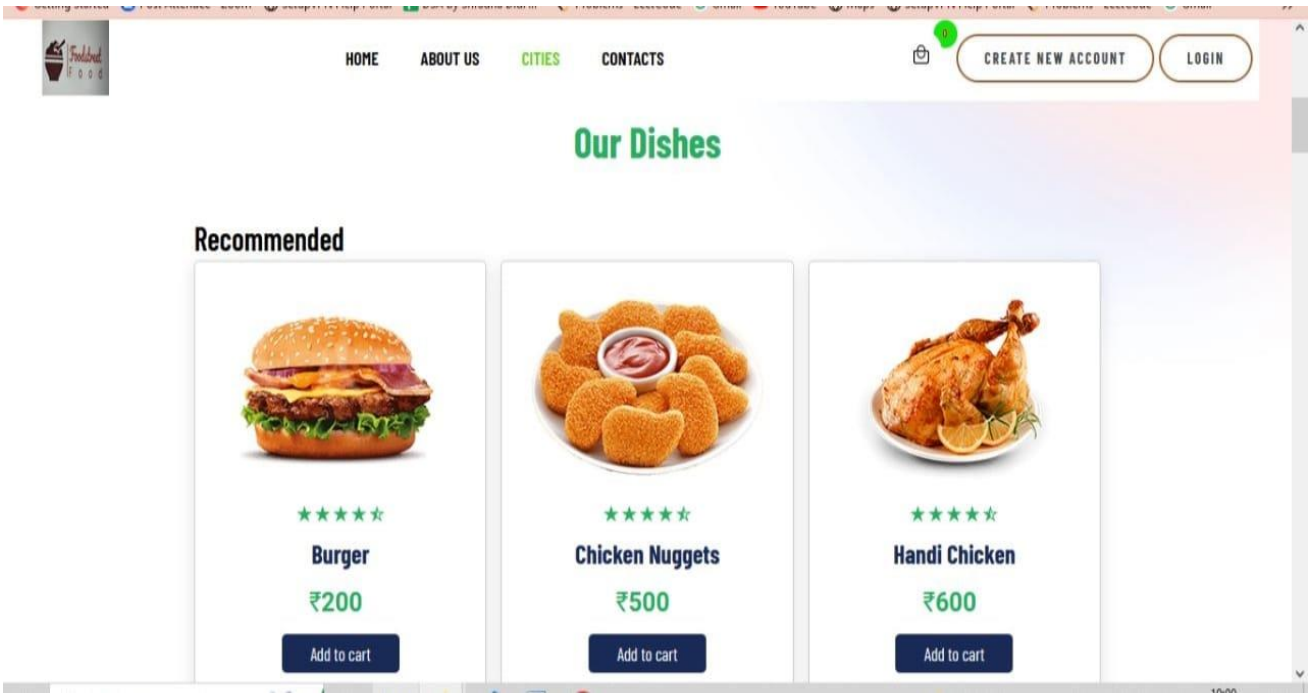
Cities



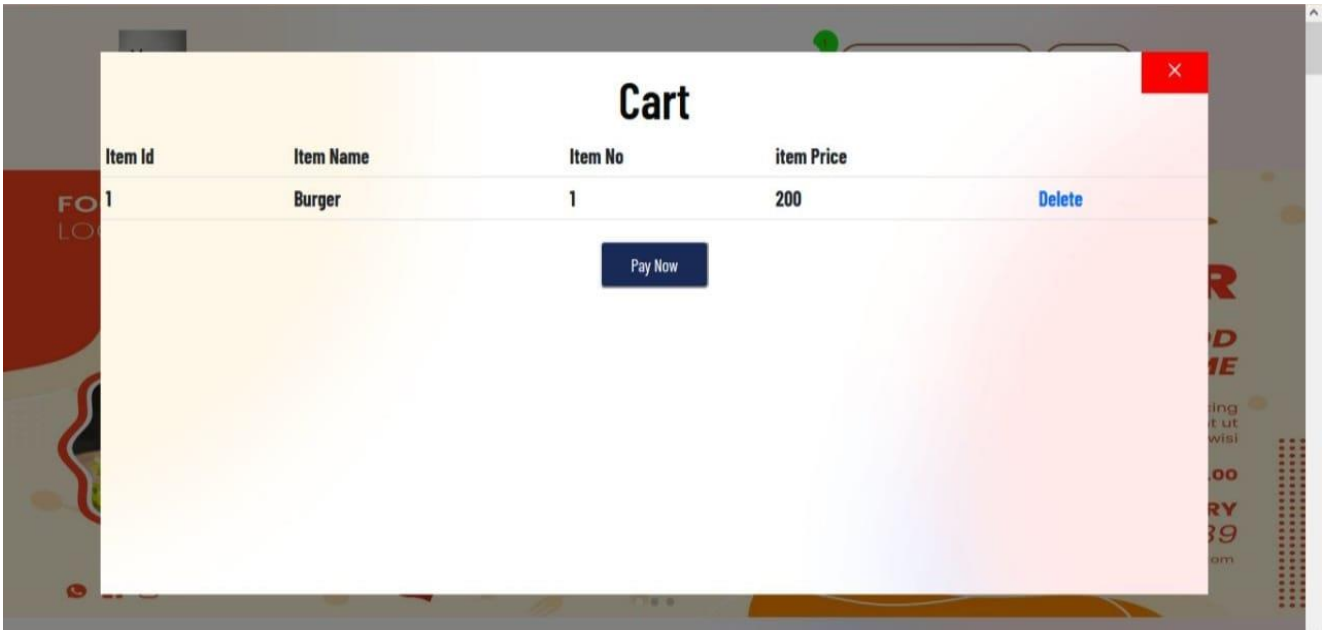
Restaurants



Our Dishes



Cart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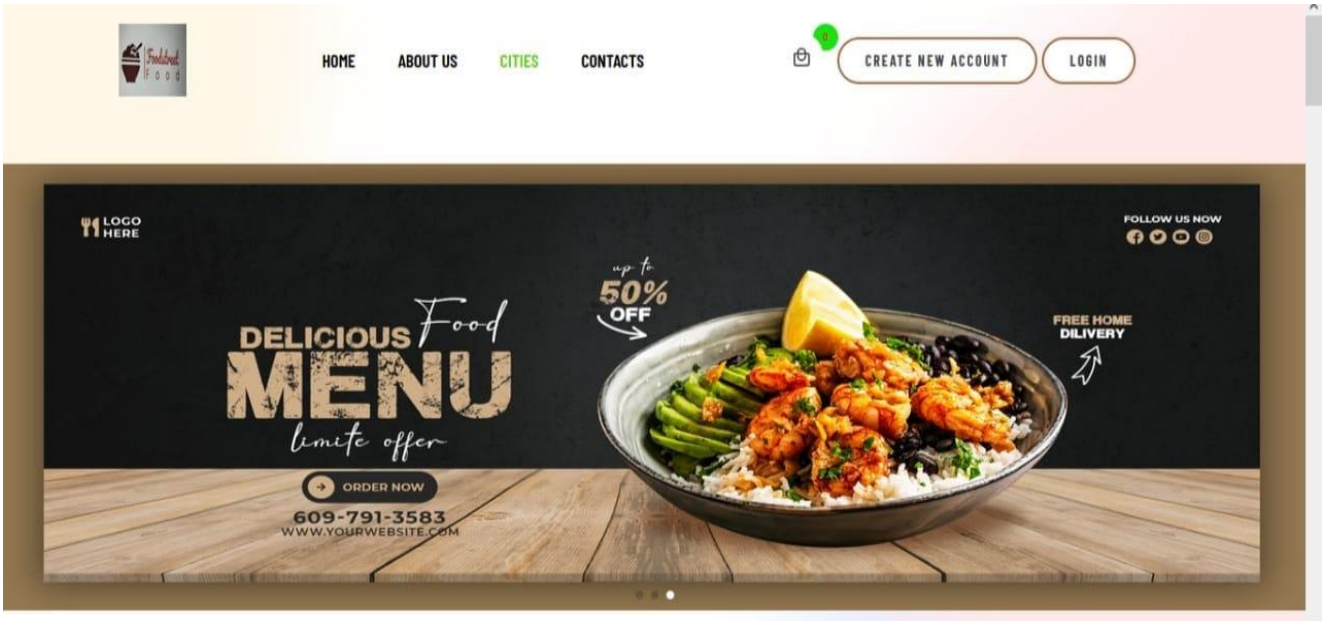
Pay Now


HOME
ABOUT US
CITIES
CONTACTS
CREATE NEW ACCOUNT
LOGIN
LOGO HERE
FOLLOW US NOW
DELICIOUS Food
MENU
limite offer
up to 50% OFF
FREE HOME DILIVERY
ORDER NOW
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Chapter: 6

Software Testing

Software testing is the process of evaluating a software program with the aim of finding out whether it meets the specified requirements set out at the planning stage. In other words, software testing ensures that your software does what you want it to do and doesn't do anything you don't want it to do.

Why is software testing needed?

Ultimately, the purpose of software testing is to help ensure that a software product operates in line with both business, technical and user requirements. Specifically, its objectives include:

Verifying that the software conforms to the technical specifications set out at the planning stage. This usually involves checking documents, code and designs to ensure the software has been built in line with requirements.

Validating that the software program meets user requirements and has the potential to achieve the desired results for the business.

Finding and preventing defects that may cause the software to crash or fail when going live or that may impede the functionality or reliability of the application.

Gathering information about the software, including any defects or bugs it has. This data can be used to prevent and fix future issues and to give stakeholders more insight into the software and its developmentand performance.

Ensuring compatibility with different operating systems and device types.

Ensuring optimal user experience through rigorous checks to find out how easy the software is to use andwhether it delivers an enjoyable experience.

Testing Strategy

There are types of testing that we implement. They are as follows:

While deciding on the focus of testing activities, study project priorities. For example, for an online system,pay more attention to response time. Spend more time on the features used frequently. Decide on the effort required for testing based on the usage of the system. If the system is to be used by many users, evaluate the impact on users due to a system failure before deciding on the effort.

This creates two problems

- Time delay between the cause and appearance of the problem.
- The effect of the system errors on files and records within the system.
-

The purpose of the system testing is to consider all the likely variations to which it will be suggested and push the systems to limits. The testing process focuses on the logical intervals of the software ensuring that all statements have been tested and on functional interval is conducting tests to uncover

errors and ensure that defined input will produce actual results that agree with the required results. Program level testing, modules level testing integrated and carried out.

There are two major types of testing they are:

- White Box Testing
- Black Box Testing

White Box Testing

White box sometimes called "Glass box testing" is a test case design that uses the control structure of the procedural design to drive test case. Using white box testing methods, the following tests were made on the system

a) All independent paths within a module have been exercised once. In our system, ensuring that case was selected and executed checked all case structures. The bugs that were prevailing in some part of the code where fixed

b) All logical decisions were checked for the truth and falsity of the values.

Black Box Testing

Black box testing focuses on the functional requirements of the software. This black box testing enables the software engineer to derive a set of input conditions that will fully exercise all functional requirements for a program. Black box testing is not an alternative to white box testing rather it is complementary approach that is likely to uncover a different class of errors that white box methods like.

- Interface errors.
- Performance in data structure.
- Performance errors.
- Initializing and termination errors.

Chapter: 7

Conclusion

Conclusion

In conclusion the “food street website” provides a comprehensive guide to the food scene in a particular area or city. It offers a platform for food enthusiasts to discover new and exciting food experiences, read reviews from other users, and plan their culinary adventures. The website can also be helpful for local businesses to showcase their menus, specials, and promotions. Overall, a well-designed and informative food street website can be an excellent resource for foodies and visitors alike, helping them to explore the diverse and exciting food culture of a city or region.

A food street website typically offers a directory of restaurants, food vendors, and street food stalls in a particular area, along with their menus, hours of operation, and contact information. Users can search for restaurants by cuisine type, price range, and location. The website may also feature blog posts, articles, and reviews about the food scene in the area, providing valuable insights and recommendations to users.

In addition to helping users discover new and exciting food experiences, a food street website can be beneficial for local businesses. It can provide them with a platform to showcase their menus, specials, and promotions, helping them to attract more customers and increase their visibility in the community.

Overall, a food street website is a great resource for food enthusiasts and visitors to explore the culinary culture of a city or region. It helps them discover new food experiences, learn about local businesses, and connect with the food community in the area.