

“Online Pizza Ordering Platform”

Submitted in partial fulfilment of the requirements
of the degree of
(Computer Engineering)

By

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CERTIFICATE

This is to certify that the project entitled “**Online Pizza Ordering Platform**” is a bonafide work of **YASH.N. DIWATE (25), ANUSH.N. GAJBHIYE (30), MRITYUNJAY.K. DWIVEDI (28), SAURABH. R. DUBEY(27)** , submitted to the University of Mumbai in partial fulfilment of the requirement for the award of the degree of **Undergraduate in Computer Engineering.**

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**PROJECT REPORT APPROVAL FOR
SECOND YEAR**

This project report entitled **Online Pizza Ordering Platform** by, **YASH.N.DIWATE(25),
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approved for the Undergraduate in Computer Engineering.

Examiners

1 _____
2 _____

Date: _____

Place: _____

DECLARATION

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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ABSTRACT

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CHAPTER 1

OVERVIEW

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OVERVIEW

1.1 Introduction

In an era defined by digital convenience, the food industry has witnessed a profound shift towards online ordering and delivery services. Our project aims to contribute to this trend by developing an intuitive and efficient online pizza delivery platform. This platform will not only offer a wide array of pizza options but also streamline the ordering process, enhance user experience, and ensure timely delivery to customers' doorsteps.

1.2 SIGNIFICANCE:

The significance of our project lies in addressing the evolving needs and preferences of modern consumers. With the hectic pace of life, individuals increasingly rely on online platforms for their daily needs, including food delivery. By focusing on the pizza segment, we tap into a market with widespread appeal and high demand. Moreover, by offering a seamless and user-friendly experience, we aim to differentiate ourselves in a competitive landscape, thereby fostering customer loyalty and satisfaction.

Online pizza delivery platforms provide several benefits, including:

- **Convenience:** Customers can browse through a diverse menu of pizzas, customize their orders, and complete transactions from the comfort of their homes or workplaces.
- **Choice:** Our platform will offer a wide range of pizza options, including various crusts, toppings, and sizes, catering to diverse tastes and preferences.
- **Efficiency:** By leveraging technology, we aim to streamline the ordering process, reduce waiting times, and ensure prompt delivery, enhancing overall efficiency and customer satisfaction.
- **Transparency:** Through features such as order tracking and real-time updates, customers will have full visibility into the status of their orders, promoting transparency and trust.

CHAPTER 2

PROBLEM DEFINATION

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PROBLEM DEFINATION

2.1 PROBLEM STATEMENT

In the realm of online food delivery, particularly in the pizza segment, several challenges and inefficiencies hinder the seamless delivery experience for customers and operators alike. Our project aims to address these challenges by developing a comprehensive online pizza delivery platform.

The primary problem areas we aim to tackle include:

1. **Fragmented Ordering Experience:** Many existing online food delivery platforms offer a fragmented and disjointed ordering experience, with limited menu options, cumbersome navigation, and inconsistent user interfaces. This often leads to user frustration and dissatisfaction.
2. **Inefficient Order Processing:** The manual processing of orders, especially during peak hours, can lead to delays, errors, and misunderstandings. Without an automated system in place, order accuracy and efficiency may suffer, impacting the overall customer experience.
3. **Lack of Customization:** Customers often desire the ability to customize their orders according to their preferences, including crust type, toppings, and portion sizes. However, many platforms offer limited customization options, leading to a lack of choice and personalization.
4. **Payment Security Concerns:** With the rise of online transactions, ensuring the security and integrity of payment information is paramount. Customers may hesitate to provide sensitive financial details if they perceive a risk of data breaches or fraudulent activities.
5. **Delivery Transparency:** Lack of transparency in the delivery process, including estimated delivery times and real-time tracking, can lead to uncertainty and dissatisfaction among customers. Clear communication and visibility into the status of their orders are essential for building trust and confidence.

CHAPTER 3
PROPOSED WORK

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PROPOSED WORK

3.1 CREATION OF CLASSES

The development of the online pizza delivery platform will involve the creation of several classes to manage different aspects of the system. These classes will encapsulate various functionalities and data structures, facilitating modularity, scalability, and maintainability of the codebase. Key classes include:

- **User Management:** Responsible for handling user authentication, registration, and profile management.
- **Order Processing:** Manages the lifecycle of orders, including creation, customization, payment processing, and delivery coordination.
- **Menu Management:** Handles the management of the pizza menu, including adding new items, updating prices, and managing inventory.
- **Delivery Tracking:** Facilitates real-time tracking of delivery orders, enabling customers to monitor the status of their orders from placement to delivery.

Admin Panel

The online pizza delivery platform will feature an admin panel accessible to authorized personnel. The admin panel will provide functionalities such as:

- **Menu Management:** Admins can add, edit, or delete menu items, including pizzas, beverages, and other offerings, to keep the menu up-to-date and reflective of current offerings.
- **User Management:** Admins can manage user accounts, including registration, authentication, and access permissions, to ensure a secure and seamless user experience.
- **Order Management:** Admins can view and manage orders, including order processing, status updates, and delivery coordination, to ensure timely and accurate order fulfillment.
- **Analytics and Reporting:** Admins can generate reports and analyze data on sales, customer behavior, and order trends to gain insights and make informed business decisions.

3.2 Tools Used

To implement the proposed solution, a combination of programming languages, frameworks, and tools will be utilized, including but not limited to:

- **Frontend Development:** HTML, CSS, JavaScript, and Bootstrap for building responsive and interactive user interfaces.
- **Backend Development:** PHP and MySQL for server-side scripting, database management, and server-client communication.
- **Framework:** Utilizing a web development framework such as Laravel or CodeIgniter to expedite development, enhance security, and maintain code organization.

3.3 ALGORITHM

1. **User Places Order:**
 - The user selects desired items from the menu, customizes their order (if applicable), and proceeds to checkout.
2. **Authentication and Authorization:**
 - The system verifies the user's identity through authentication mechanisms.
 - If the user is authenticated and authorized to place orders, the process continues; otherwise, an error message is displayed.
3. **Order Creation:**
 - The system creates a new order object, which includes details such as order ID, customer information, items ordered, total price, and delivery address.
4. **Payment Processing:**
 - The system presents payment options to the user, including cash on delivery.
 - If the user selects cash on delivery, the order is confirmed, and no further action is required.
 - If the user selects online payment, the system securely processes the payment using encryption techniques and validates the transaction.
5. **Order Confirmation:**
 - Once payment is processed successfully, the system confirms the order and sends a confirmation message to the user, including order details and estimated delivery time.
6. **Order Fulfillment:**
 - The system notifies the nearest available delivery driver about the new order.
 - The delivery driver accepts the order and proceeds to the specified delivery address.
7. **Delivery and Tracking:**
 - The delivery driver delivers the order to the customer's address.

- Throughout the delivery process, the system updates the order status in real-time, allowing the user to track the delivery progress.

8. **Order Completion:**

- Upon successful delivery, the system marks the order as completed and updates relevant databases and records.

9. **Feedback and Rating:**

- After delivery, the system prompts the user to provide feedback and rate the service and products.
- User feedback is recorded and used to improve service quality and customer satisfaction.

10. **Admin Notifications:**

- Admins are notified of new orders, order updates, and any issues or exceptions that require attention.

CHAPTER 4
ANALYSIS AND PLANNING

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ANALYSIS AND PLANNING

Market Analysis:

In order to develop a successful online pizza delivery platform, it's crucial to conduct thorough market analysis to understand the dynamics of the industry. Our market research revealed a significant shift towards online food ordering and delivery, driven by factors such as convenience, busy lifestyles, and the growing popularity of digital platforms. The pizza segment, in particular, holds immense potential due to its widespread appeal and versatility. By analyzing consumer preferences, competitor offerings, and emerging trends, we aim to identify key opportunities and position our platform effectively within the market.

Technical Analysis:

Our technical analysis focused on evaluating the infrastructure, tools, and technologies required to build and operate the online pizza delivery platform. Key considerations included server scalability, database management, security protocols, and frontend development frameworks. After careful assessment, we decided to utilize a combination of PHP and MySQL for backend development, along with HTML, CSS, JavaScript, and Bootstrap for frontend development. Additionally, we plan to leverage web development frameworks such as Laravel or CodeIgniter to expedite development and enhance security.

Functional Requirements:

Based on user needs and industry best practices, we defined a set of core functionalities and features for the online pizza delivery platform. These include user registration and authentication, menu browsing, order placement and customization, payment processing, delivery tracking, and admin management. By prioritizing these features, we aim to create a seamless and intuitive user experience that meets the needs of our target audience while supporting our business objectives.

Non-Functional Requirements:

In addition to functional requirements, we identified several non-functional requirements essential for the success of the platform. These include performance, security, usability, reliability, and scalability. To ensure optimal performance and user satisfaction, we will implement rigorous testing procedures, security protocols, and monitoring mechanisms. Furthermore, we will design the platform with scalability in mind to accommodate future growth and increasing user demand.

Project Timeline:

Developing the online pizza delivery platform involves several phases, each with specific tasks and deadlines. Our project timeline outlines key milestones, including planning, design, implementation, testing, deployment, and maintenance. By adhering to this timeline and allocating resources effectively, we aim to deliver the platform within the specified timeframe while maintaining high quality and meeting stakeholder expectations.

Risk Assessment:

While developing the platform, we identified potential risks and challenges that could impact project success. These include technical issues, security breaches, regulatory compliance, and market fluctuations. To mitigate these risks, we developed contingency plans and mitigation strategies, such as regular backups, security audits, and compliance checks. By proactively addressing these risks, we aim to minimize their impact and ensure smooth project execution.

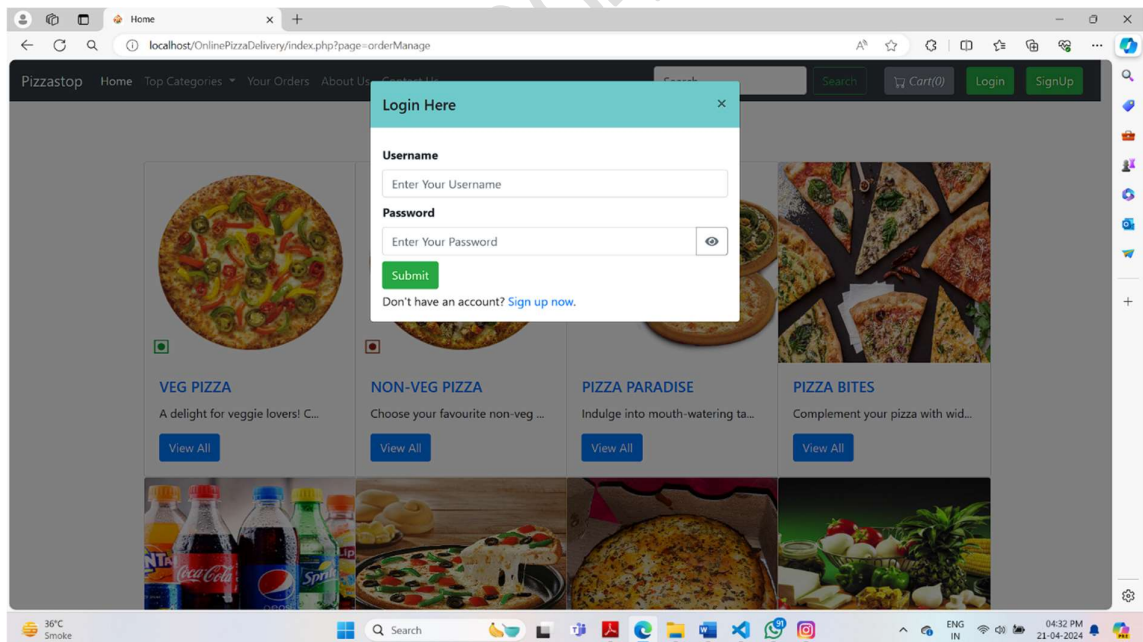
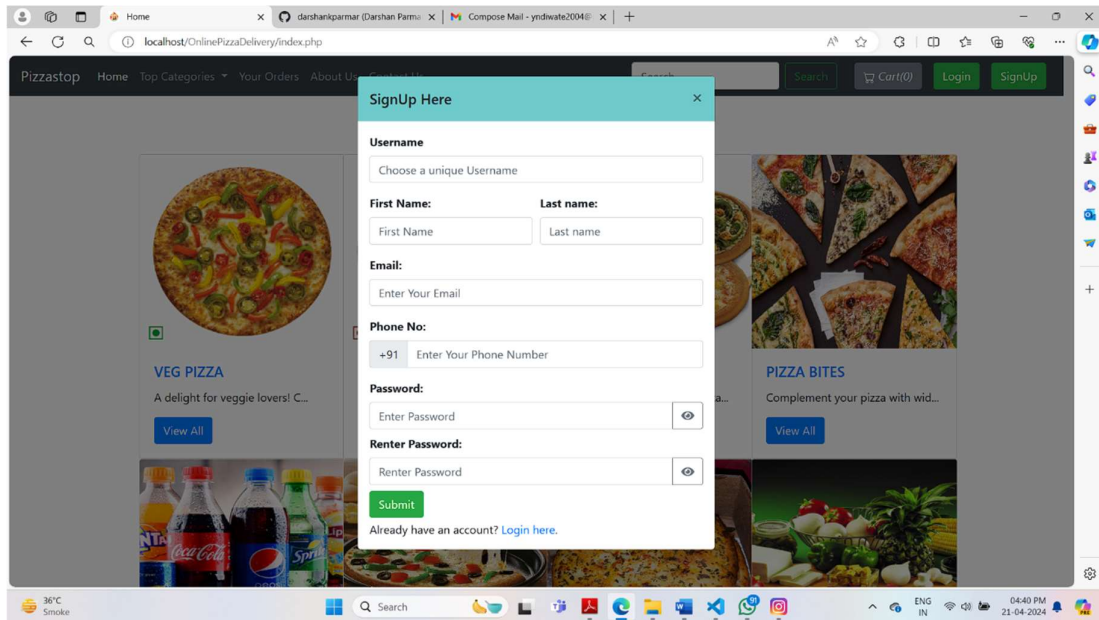
CHAPTER 5

RESULTS

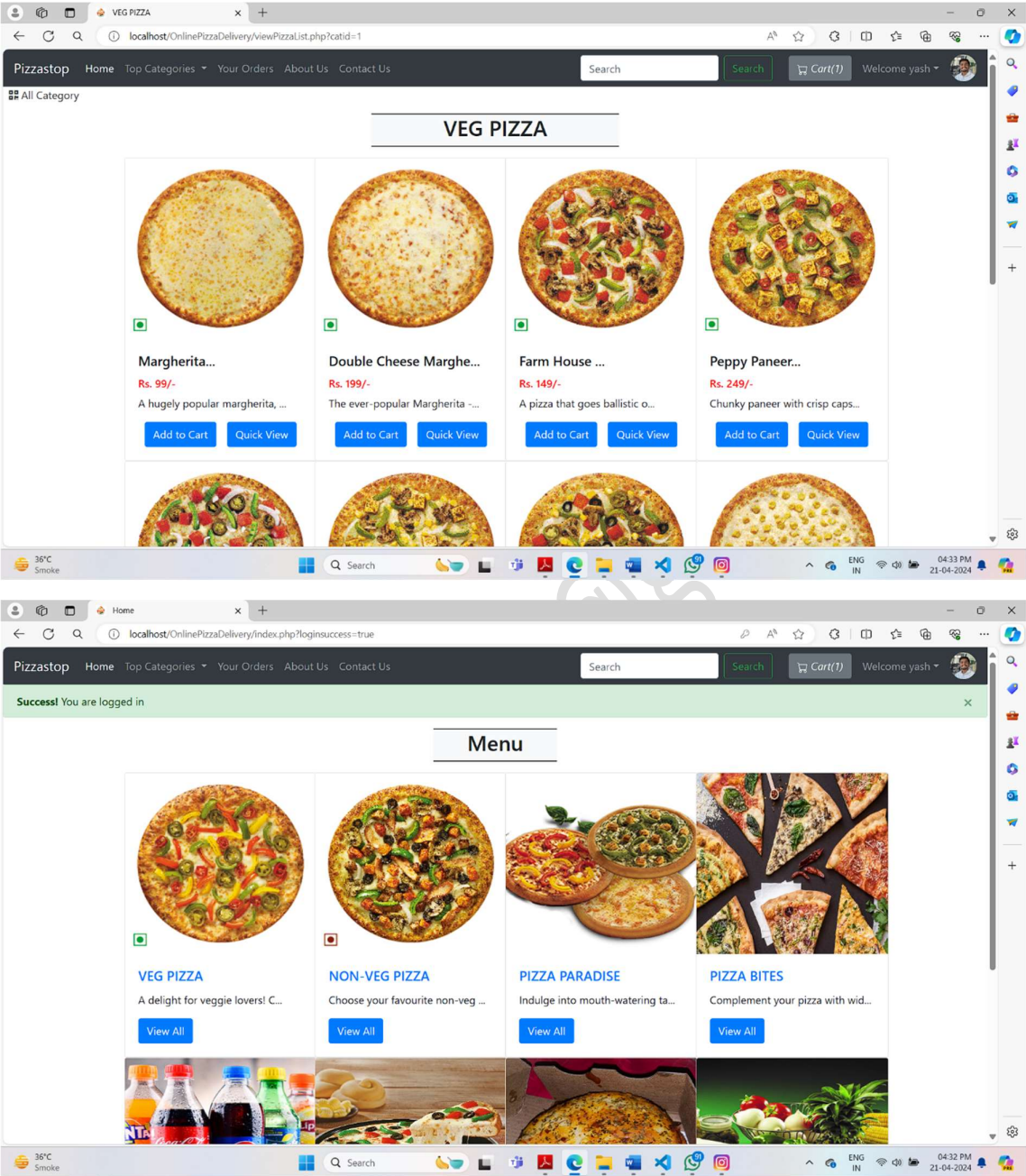
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RESULTS

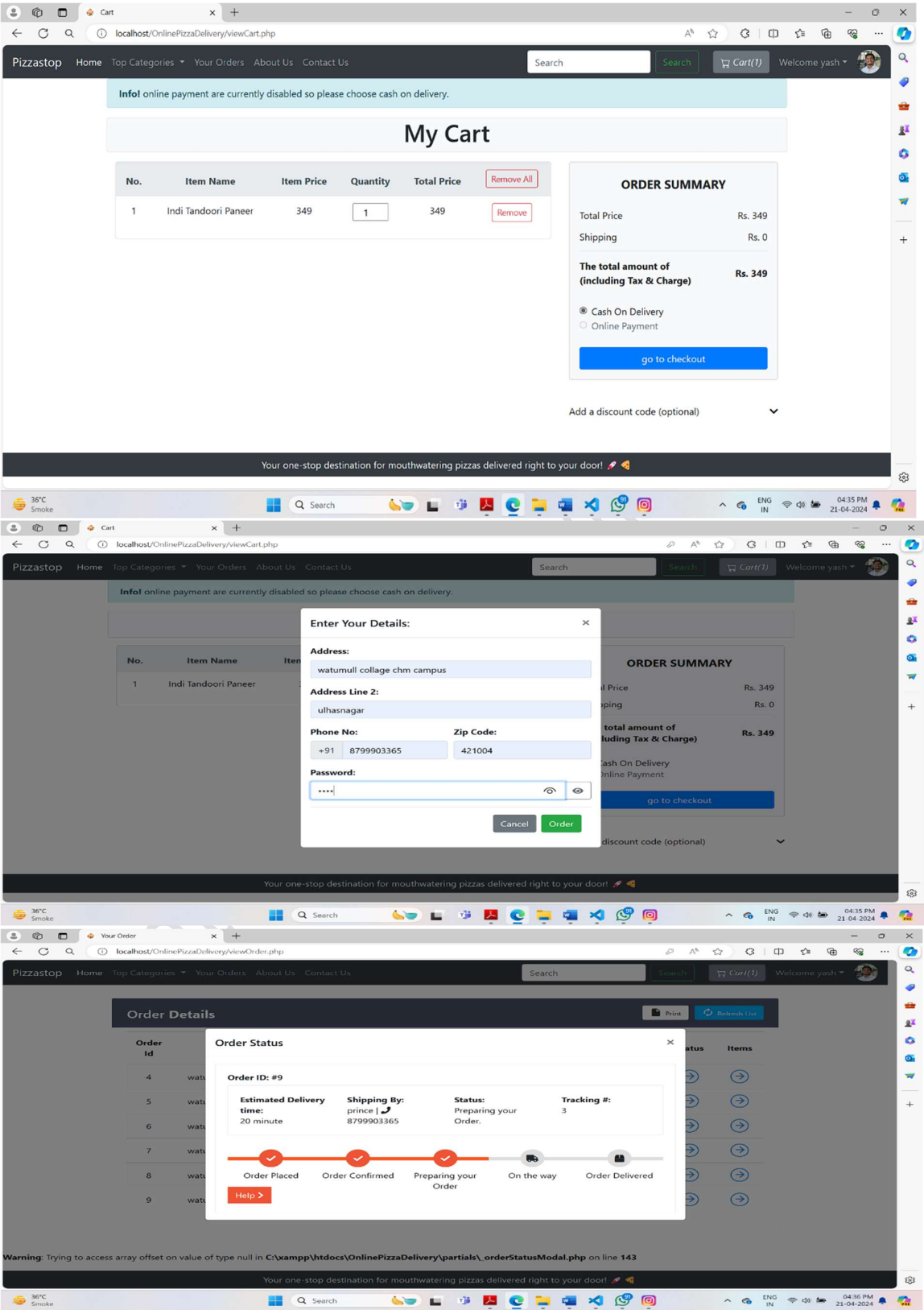
5.1 SNAP SHOTS OF LOGIN



SNAPSHOTS FOR HOME PAGE



SNAPSHOTS FOR DELIVERY



SNAPSHOTS FOR ADMIN PAGE

Create New Category

Category Name:

Category Desc:

Image

Choose File

No file chosen

Please .jpg file upload.

Create

Id	Img	Category Detail	Action
1		<div>Name : VEG PIZZA</div> <div>Description : A delight for veggie lovers! Choose from our wide range of delicious vegetarian pizzas, it's softer and tastier</div>	<div>Edit</div> <div>Delete</div>
2		<div>Name : NON-VEG PIZZA</div> <div>Description : Choose your favourite non-veg pizzas from the FoodStop's Pizza menu. Get fresh non-veg pizza with your choice of crusts & toppings</div>	<div>Edit</div> <div>Delete</div>
3		<div>Name : PIZZA PARADISE</div> <div>Description : Indulge into mouth-watering taste of Pizza paradise range, perfect answer to all your food cravings</div>	<div>Edit</div> <div>Delete</div>
4		<div>Name : PIZZA BITES</div>	<div>Edit</div> <div>Delete</div>

Pizza Delivery

Home

Orders

Category List

Menu

contact Info

Users

Site Settings

Log Out

Order Details

Print

Refresh List

Order Id	User Id	Address	Phone No	Amount	Payment Mode	Order Date	Status	Items
4	2	watumull collage chm...	8799903365	99	Cash on Delivery	2024-03-17 14:50:41	<div></div>	<div></div>
5	2	watumull collage chm...	8799903365	249	Cash on Delivery	2024-03-26 15:15:21	<div></div>	<div></div>
6	2	watumull collage chm...	8799903365	238	Cash on Delivery	2024-04-11 01:49:02	<div></div>	<div></div>
7	2	watumull collage chm...	8799903365	598	Cash on Delivery	2024-04-12 15:33:37	<div></div>	<div></div>
8	2	watumull collage chm...	8799903365	199	Cash on Delivery	2024-04-12 22:25:24	<div></div>	<div></div>
9	2	watumull collage chm...	8799903365	897	Cash on Delivery	2024-04-13 13:03:01	<div></div>	<div></div>

Pizzastop

Home

Top Categories

You are here Admin > Contact Us

Admin Reply

Contact Id	Reply Message	datetime
1	order will be on ur doorstep soon thankyou	2024-03-17 03:07:55
2	pizza is comming	2024-04-13 13:08:24

Contact Us

Email:

yash@gmail.com

Phone No:

+91 7777777777

Order Id:

0

Password:

Enter Password

How May We Help You ?

SUBMIT NOW

HISTORY

PizzaStop, Watumull collage, CHM campus, Uhasnagar 421003

CALL US

8799903365

7058527144

CHAPTER 6
**FUTURE ENHANCEMENT & FUTURE SCOPE OF
PROJECT**

FUTURE ENHANCEMENT & FUTURE SCOPE OF PROJECT

6.1 FUTURE SCOPES

Integration with Online Payment Gateways:

In the future, we envision integrating the online pizza delivery platform with popular online payment gateways, such as PayPal, Stripe, or Square. This will provide customers with additional payment options, enhance transaction security, and streamline the payment process, ultimately improving the overall user experience.

Personalized User Accounts:

To further enhance user engagement and loyalty, we plan to implement personalized user accounts. This feature will allow users to create profiles, save their favorite orders, view order history, and receive personalized recommendations based on their preferences and ordering behavior. By offering a tailored experience, we aim to strengthen customer relationships and encourage repeat business.

Real-Time Order Tracking:

Implementing real-time order tracking functionality will enable customers to track the status and location of their orders in real-time. By providing accurate and up-to-date information on order preparation, dispatch, and delivery, this feature will enhance transparency, reduce anxiety, and improve customer satisfaction. Additionally, it will empower users to plan their schedules more effectively and anticipate the arrival of their orders.

Advanced Analytics and Reporting:

To gain deeper insights into customer behavior, market trends, and operational performance, we plan to implement advanced analytics and reporting capabilities. By analyzing data on sales, customer demographics, order patterns, and feedback, we can identify opportunities for optimization, make data-driven decisions, and refine our marketing strategies. Furthermore, this data can be used to forecast demand, optimize inventory management, and enhance overall business efficiency.

CHAPTER 7
CONCLUSION

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CONCLUSION

In conclusion, the development of the online pizza delivery platform represents a significant achievement and a step forward in leveraging technology to meet the evolving needs and preferences of consumers in the food industry. Throughout the course of this project, we have undertaken extensive research, analysis, and planning to create a robust and user-friendly platform that offers convenience, choice, and reliability to our customers.

Our platform addresses key challenges in the online food delivery market by providing a seamless and intuitive ordering experience, efficient order processing, secure payment options, and transparent delivery tracking. By prioritizing user satisfaction and incorporating feedback-driven improvements, we aim to establish ourselves as a leading provider of online pizza delivery services, trusted by customers across diverse demographics and geographic regions.

Looking ahead, we recognize the importance of continuous innovation and adaptation to remain competitive in a dynamic and rapidly evolving market. We have outlined several future enhancements and opportunities for expansion, including integration with third-party delivery services, multi-language support, dietary customization options, AI-driven personalization, voice ordering capabilities, and AR menu visualization.

As we move forward, we are committed to delivering exceptional value to our customers, partners, and stakeholders, while upholding the highest standards of quality, integrity, and innovation. We believe that by staying true to our vision and embracing new technologies and trends, we can continue to drive growth, create positive experiences, and make a meaningful impact in the online food delivery industry.

In closing, we extend our gratitude to all those who have contributed to the success of this project, including our team members, advisors, partners, and customers. Together, we look forward to shaping the future of online pizza delivery and delivering delicious moments to our customers' doorsteps, one slice at a time.

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