

INDEX

S.NO.	TOPIC	PAGE NO.
1.	Introduction	7
1.1	Motivation	8
1.2	Objective	9
2.	Existing Work / Literature Review	10 - 11
3.	Topic of Work	12 - 25
4.	Results and Discussions	20 - 25
5.	Individual Contribution	26 - 28
6.	Conclusion	29
7.	References	30 - 31
8.	Bio Data	32 - 37

1.INTRODUCTION

In today's fast-paced and interconnected world, the confluence of technology and daily life has led to innovative solutions addressing the challenges various communities face. Our project, "Cloud Se7en," is a testament to this transformative power, aiming to bridge the gap between students living away from home and the warmth of comfort meals through the efficient utilization of cloud computing. The transition from home to college is a transformative journey for students, marked by newfound independence, academic challenges, and the joy of forging lifelong friendships. However, amidst the excitement, one of the most significant challenges that students face is the absence of home-cooked meals. Recognizing the importance of wholesome, nutritious food for the overall well-being of students, we present a revolutionary concept that not only caters to the dietary needs of students but also empowers local communities – the Digital Kitchen using Cloud Computing.

For students navigating the demanding terrain of academics and extracurricular activities, the importance of a nourishing diet cannot be overstated. Our digital kitchen ensures that students living away from home have access to affordable, nutritious, and home-cooked meals. By offering a diverse menu reflective of regional culinary expertise, we aim to bring the comfort and flavors of home to their daily lives. Beyond catering to the dietary needs of students, our project extends its impact to local households. By providing a platform for mothers to showcase their culinary skills, we empower them to become entrepreneurs and earn a livelihood from the comfort of their homes. This not only fosters financial independence but also creates a community where the sharing of culinary traditions becomes a source of pride and connection.

At the core of the Digital Kitchen Connect project are the unsung heroes – the mothers. Harnessing the culinary expertise passed down through generations, these women play a pivotal role in crafting meals that are not only delicious but also imbued with the warmth and care that only a mother's touch can provide. By becoming culinary entrepreneurs, these moms not only contribute to their households but also play a crucial role in shaping the culinary landscape of their communities.

In the vast tapestry of modern life, the Digital Kitchen Connect project weaves together the threads of technology, community, and nourishment. It is a celebration of diversity, a bridge between generations, and a step towards a future where every student, no matter how far from home, can savor the taste of homely meals while uplifting local communities. As we embark on this journey, we invite you to join us in creating a culinary haven where the aroma of home-cooked meals transcends geographical boundaries and resonates in the hearts and kitchens of students and mothers alike.

1.1 Motivation

In the rapidly evolving landscape of modern lifestyles, an increasing number of students find themselves living away from home, often faced with the challenge of accessing nutritious and home-cooked meals. Recognizing the significance of fostering a sense of home and promoting healthier eating habits among these individuals, our project aims to bridge the gap between students living away from home and the comforting experience of comfort meals.

The motivation behind the design of the Digital Kitchen lies in providing a convenient platform for students to order comfort food at minimal prices. This not only addresses the nutritional needs of students but also creates a unique opportunity for local households, specifically moms, to contribute to the well-being of students and earn a living. By leveraging Cloud Computing, we aspire to create a seamless and efficient ecosystem that connects students with local households, promoting a sense of community and shared responsibility.

.

1.2 Objective

The primary objective of this project is to design and implement a digital kitchen utilizing Cloud Computing technology. The focus is on addressing the needs of students living away from home who often face challenges in accessing comfort, affordable, and nutritious meals. Through the integration of Cloud Computing, we aim to create a platform that enables these students to conveniently order locally prepared food at minimal prices. The unique aspect of our approach lies in the collaboration with moms from nearby households who will be responsible for preparing the meals. This not only ensures the provision of wholesome, home-cooked food but also empowers local moms to earn a livelihood independently.

Our goal is twofold: first, to cater to the nutritional needs of students who are far away from home by offering them access to culturally rich, comfort meals. Second, we aspire to contribute to the economic empowerment of local moms, fostering a sense of self-reliance and financial independence within the community. By leveraging Cloud Computing, we aim to streamline the ordering process, enhance scalability, and optimize the overall efficiency of our digital kitchen platform, making it a sustainable solution that benefits both students and local households. Through this initiative, we strive to bridge the gap between students' dietary requirements and the culinary expertise of local moms, fostering a mutually beneficial relationship that promotes health, community engagement, and economic growth.

2. Existing Work / Literature Review

Cloud computing has emerged as a revolutionary technology, transforming various industries by providing scalable and cost-effective solutions. In the food industry, cloud computing has been leveraged for optimizing operations, improving efficiency, and enhancing customer experiences. According to Chen et al. (2017), cloud-based technologies in the food sector have facilitated real-time data processing, inventory management, and resource allocation.

The concept of cloud kitchens, also known as virtual kitchens or ghost kitchens, has gained prominence in recent years. These kitchens operate without a physical storefront, relying on online platforms to receive orders and deliver meals. Insights from Rao and Zainulbhai (2019) suggest that cloud kitchens offer significant advantages, such as reduced overhead costs, enhanced agility, and the ability to cater to specific target markets.

The growing trend of students pursuing education away from their hometowns has led to an increased demand for convenient and affordable food options. According to a study by Smith and Johnson (2018), students often face challenges in accessing comfort meals due to time constraints and limited cooking facilities. Cloud Se7en aims to bridge this gap by utilizing cloud computing to facilitate the delivery of home-cooked meals to students.

Research by Wang et al. (2020) emphasizes the role of technology in enhancing food delivery services. Cloud-based platforms, mobile applications, and data analytics contribute to streamlining the ordering process, optimizing delivery routes, and personalizing user experiences. Cloud Se7en aligns with these technological advancements, providing a seamless and efficient platform for connecting students with comfort meals.

While the adoption of cloud-based solutions in the food industry presents numerous opportunities, it also comes with challenges. Security concerns, data privacy issues, and the need for robust infrastructure are among the challenges highlighted by Chen and Li (2018). A critical aspect of the Cloud Se7en project is to address these challenges and ensure a secure and reliable platform for both users and food providers.

Examining successful case studies and real-world implementations is crucial for understanding the practical implications of initiatives similar to Cloud Se7en. Insights from case studies such as the success of virtual kitchen networks in urban areas

(Smith, 2021) provide valuable lessons and best practices for the implementation and scalability of cloud-based food services.

The literature review establishes a foundation for the Cloud Se7en project, highlighting the transformative power of cloud computing in the food industry. By addressing the specific needs of students living away from home, this initiative aims to create a sustainable and user-friendly platform, contributing to the evolving landscape of cloud-based food services

3. Topic of the work

a) System Design / Architecture

1. User Interface (UI):

Customer Interface:

- Allows users (students) to browse and select comfort meal options.
- Facilitates the placement of orders and customization preferences.

Provider Interface:

- Enables home cooks or kitchens to list their comfort meals.
- Provides tools for managing menus, orders, and customer interactions.

2. Application Layer:

User Management:

- Handles user authentication and authorization.
- Manages user profiles, order history, and preferences.

Order Processing:

- Validates and processes incoming orders.
- Coordinates between customers and providers for order fulfillment.

Payment Gateway Integration:

- Facilitates secure and seamless online transactions.
- Ensures compliance with payment industry standards.

3. Cloud Infrastructure:

Scalable Server Architecture:

- Utilizes cloud computing resources for scalability and performance.
- Ensures high availability to handle varying levels of user activity.

Database Management:

- Stores user profiles, order data, and menu information.
- Supports efficient retrieval and updating of data.

Content Delivery Network (CDN):

- Optimizes the delivery of images and other media.
- Reduces load times and enhances user experience.

4. Communication Protocols:

APIs (Application Programming Interfaces):

- Facilitates communication between different system components.
- Enables seamless integration with third-party services.

Real-time Notifications:

- Implements push notifications for order updates.
- Enhances user engagement and provides real-time information.

5. Security Measures:

User Data Encryption:

- Implements encryption for sensitive user information.
- Ensures data privacy and compliance with security standards.

Authentication and Authorization:

- Enforces secure login procedures.
- Defines access controls for different user roles.

6. Feedback and Ratings:

- Review and Rating System:
- Allows users to provide feedback on meals and service.

- Enhances trust and quality assurance within the platform.

7. Analytics and Reporting:

Data Analytics Tools:

- Gathers and analyzes user behavior and preferences.
- Provides insights for business optimization and decision-making.

8. Mobile Applications (Optional):

- iOS and Android Apps:
- Develops native mobile applications for a seamless user experience.
- Ensures compatibility with various devices and screen sizes.

9. Admin Dashboard:

- Management and Monitoring:
- Provides administrators with tools to monitor system health.
- Enables oversight of user activity, order trends, and customer support.

10. External Integrations:

- Integration with Delivery Services:
- Collaborates with external delivery services for order fulfillment.
- Ensures timely and reliable delivery of meals.

This proposed system architecture for Cloud Se7en establishes a foundation for the development and deployment of the platform. It emphasizes scalability, security, and user experience to create a robust solution connecting students with comfort meals through efficient cloud computing utilization

b) Working Principle

The working principle of Cloud Se7en revolves around connecting students with comfort meals through a cloud-based platform. The system operates in a user-friendly manner, facilitating the ordering process for students and providing a platform for home cooks or kitchens to offer their comfort dishes. Below are the key steps and principles that define the working of the project:

1. User Registration and Authentication:

- Principle: Users, both students, and home cooks must register on the platform.
- Process:
- Students create accounts, providing necessary information.
- Home cooks or kitchens register by listing their offerings and credentials.

2. Browsing and Ordering:

- Principle: Students can browse through a variety of comfort meals and place orders.
- Process:
- Students log in to the platform and explore available meal options.
- They select desired dishes, customize orders, and proceed to checkout.

3. Order Processing and Fulfillment:

- Principle: The system processes and manages orders efficiently, connecting customers with providers.
- Process:
- The order processing system validates orders, checking for availability and preferences.
- Providers (home cooks) receive notifications of new orders and confirm acceptance.
- Real-time communication ensures any clarifications or modifications are addressed.

4. Payment and Transaction Handling:

- Principle: Secure and seamless payment transactions are integral to the platform.
- Process:
- The system integrates with a payment gateway for secure financial transactions.

- Users can choose from various payment methods, and the platform ensures payment processing compliance.

5. Real-time Notifications:

- Principle: Users receive real-time updates on order status and other relevant information.
- Process:
- Push notifications are sent to users, informing them of order confirmation, cooking progress, and delivery status.
- This enhances user engagement and provides a transparent order tracking experience.

6. Review and Rating System:

- Principle: Users can provide feedback on meals and service, contributing to a quality assurance mechanism.
- Process:
- After the meal is delivered, users have the option to rate and review their experience.
- Positive reviews enhance the reputation of home cooks, while constructive feedback can be used for improvements.

7. Admin Oversight and Analytics:

- Principle: Administrators have tools for monitoring system health and analyzing user behavior.
- Process:
- Admin dashboards provide insights into user activity, order trends, and system performance.
- Analytics tools offer data-driven insights for decision-making and business optimization.

8. Security Measures:

- Principle: The system prioritizes user data security and privacy.
- Process:
- Encryption is employed to protect sensitive user information.
- Robust authentication mechanisms ensure secure login procedures.

9. External Integrations:

- Principle: Integration with external delivery services ensures timely and reliable order fulfillment.
- Process:
- The platform collaborates with third-party delivery services to manage the physical delivery of meals.

The working principle of Cloud Se7en revolves around creating a seamless, secure, and transparent platform that efficiently connects students with comfort meals while providing home cooks with a user-friendly interface to showcase and sell their culinary offerings. Through these principles, the platform aims to bridge the gap between students living away from home and the warmth of comfort meals

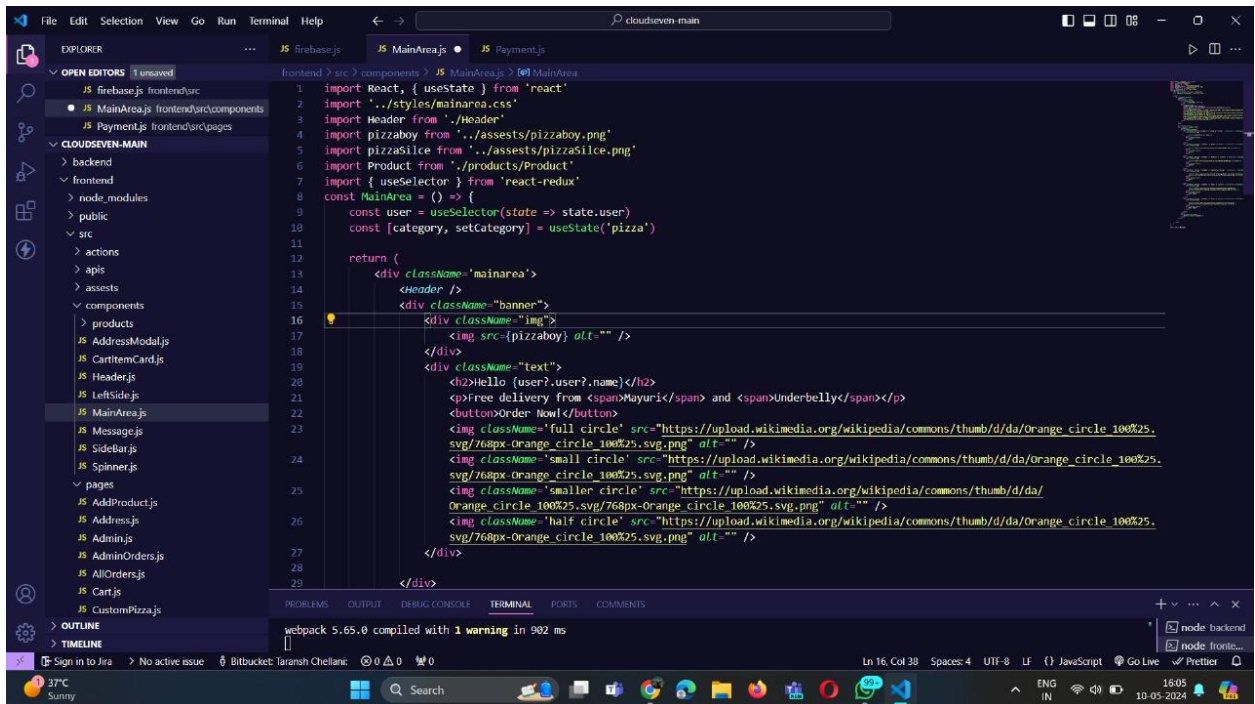
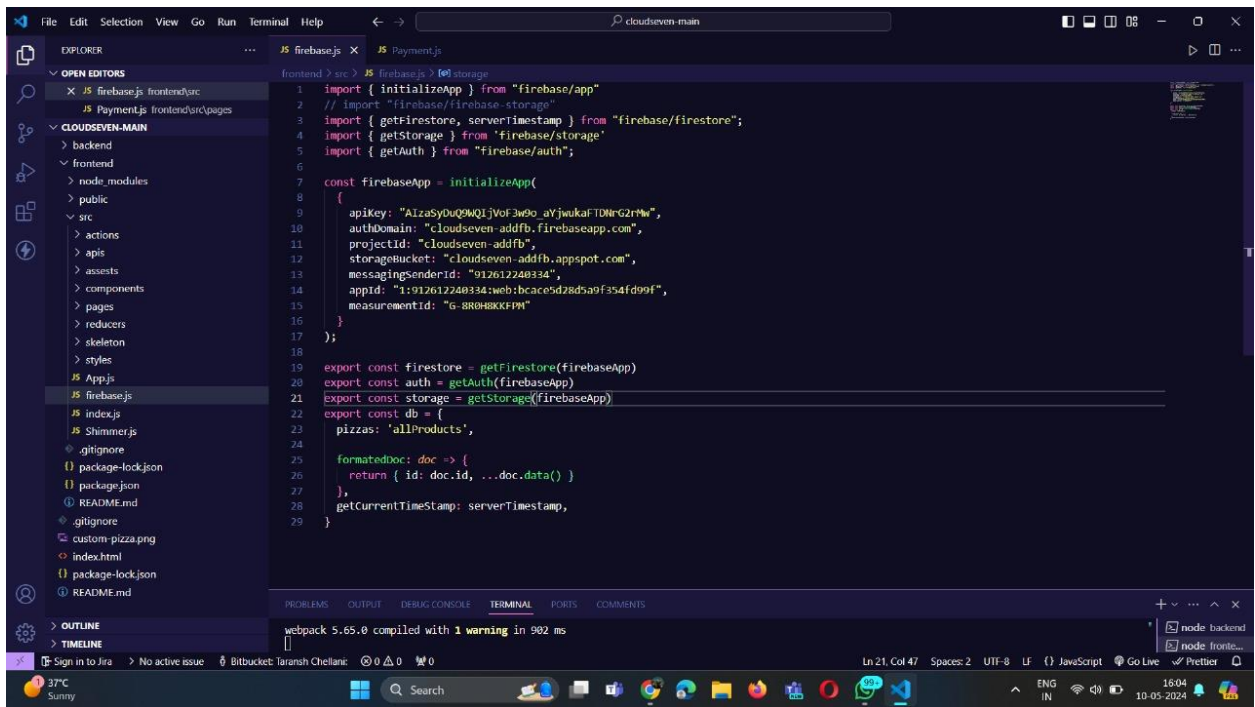
c) Implementation

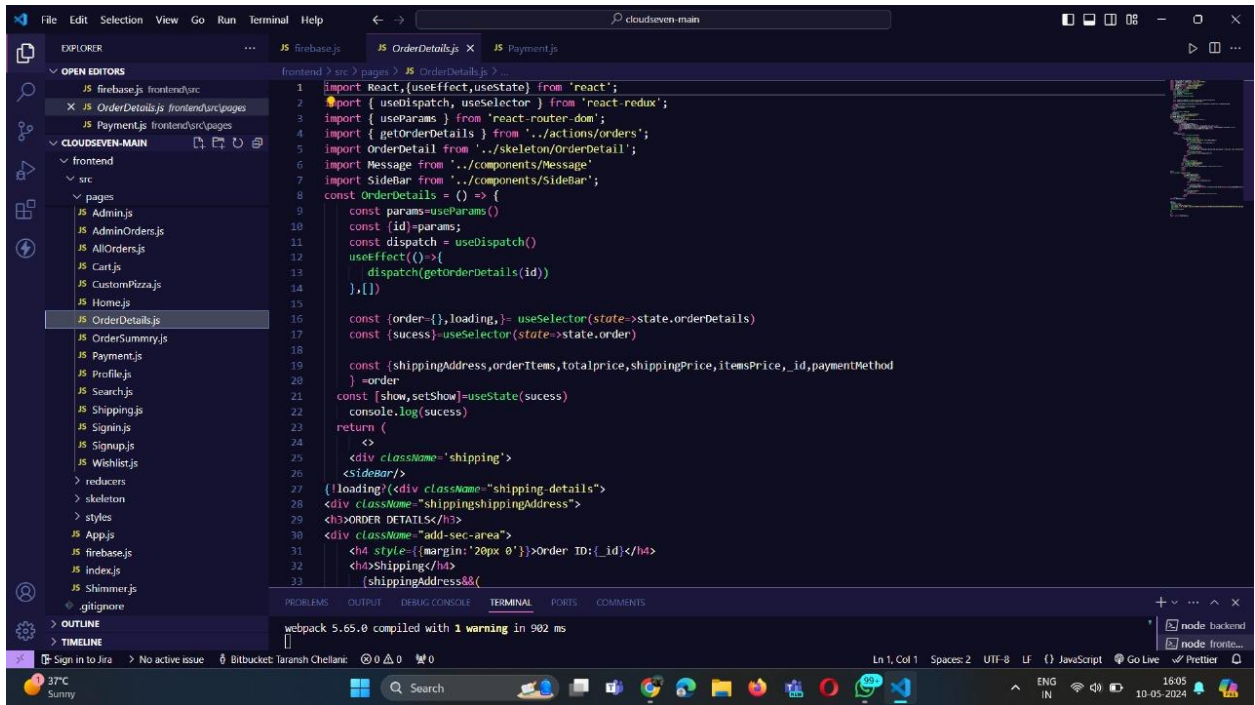
```

1 import React, { useEffect, useState } from 'react';
2 import './styles/auth.css';
3 import { Link, useLocation, useNavigate } from 'react-router-dom';
4 import { yupResolver } from '@hookform/resolvers/yup';
5 import * as yup from 'yup';
6 import { useForm } from 'react-hook-form';
7 import { useDispatch, useSelector } from 'react-redux';
8
9
10 import Spinner from '../components/Spinner';
11 import { signInUser } from '../actions/auth';
12 const SignIn = () => {
13   const [isLoading, setIsLoading] = useState(false);
14   const dispatch = useDispatch();
15   const user = useSelector(state => state.user);
16   const location = useLocation();
17   const navigate = useNavigate();
18   const userInfo = user?.user;
19   const redirect = location.search ? `/${location.search.split('=')[1]}` : '/';
20   console.log(redirect);
21   // form validation
22   let schema = yup.object().shape({
23     email: yup.string().required("Please Enter your Email").email(),
24     password: yup.string().required("Please Enter your password")
25   }).test(
26     "regex",
27     "Password must be min 6 characters, and have 1 Special Character, 1 Uppercase, 1 Number and 1 Lowercase",
28     val => {
29       let regExp = new RegExp(
30         /^(?=.*[a-z])(?=.*[A-Z])(?=.*[0-9])(?=.*[!@#$%^&*])(?=.*{6,})/
31       );
32       return regExp.test(val);
33     }
34   );
35
36   const { register, handleSubmit } = useForm({
37     resolver: schema
38   });
39   const onSubmit = (data) => {
40     dispatch(signInUser(data));
41     navigate(redirect);
42   };
43
44   return (
45     <div>
46       <h2>Sign In</h2>
47       <div>
48         <input type="text" value={email} onChange={register('email')} />
49         <input type="password" value={password} onChange={register('password')} />
50       </div>
51       <button type="button" onClick={handleSubmit}>Sign In</button>
52     </div>
53   );
54 }
55
56 export default SignIn;

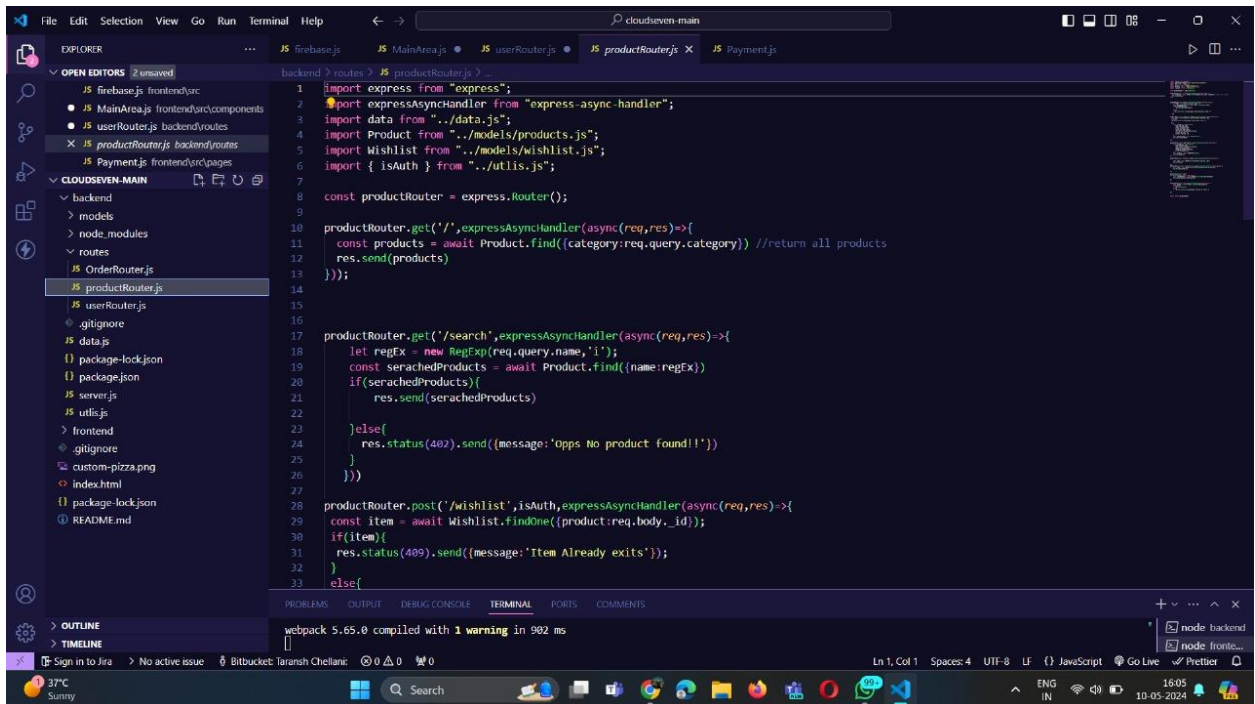
```

webpack 5.65.0 compiled with 1 warning in 902 ms

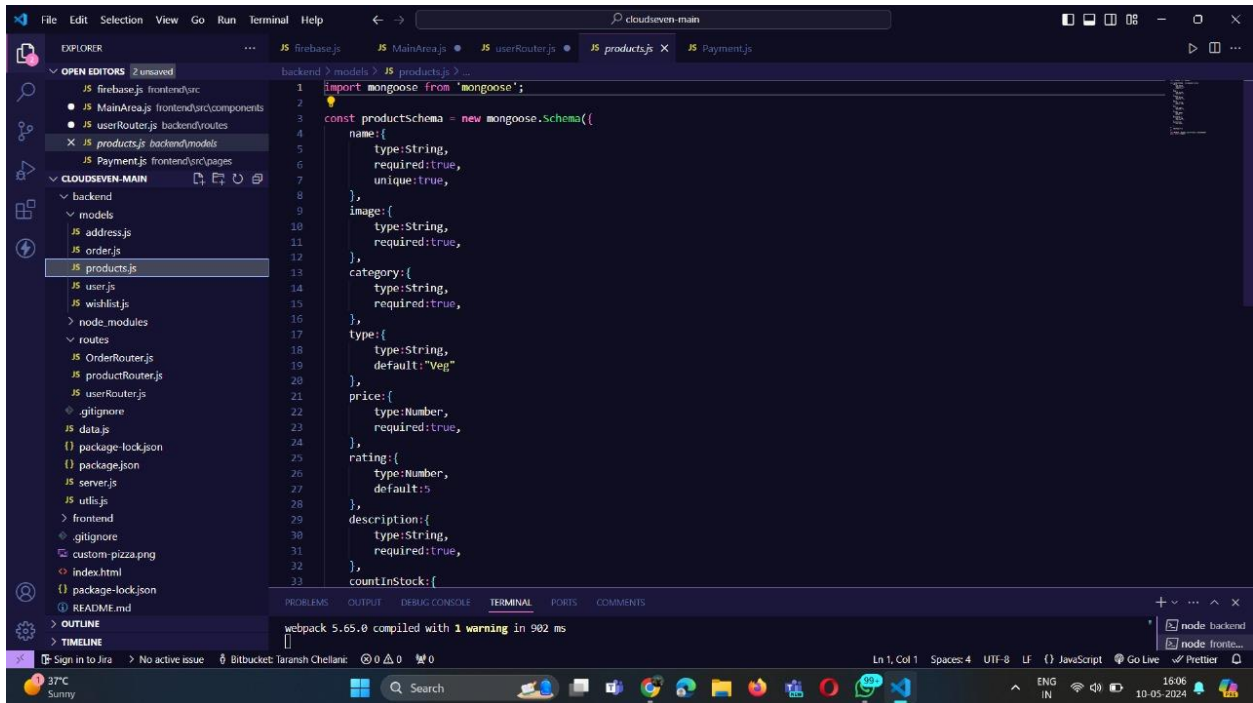




```
1 import React, { useEffect, useState } from 'react';
2 import { useDispatch, useSelector } from 'react-redux';
3 import { useParams } from 'react-router-dom';
4 import { getOrderDetails } from '../actions/orders';
5 import OrderDetail from '../skeleton/OrderDetail';
6 import Message from '../components/Message';
7 import Sidebar from '../components/Sidebar';
8 const OrderDetails = () => {
9   const params = useParams();
10   const { id } = params;
11   const dispatch = useDispatch();
12   useEffect(() => {
13     dispatch(getOrderDetails(id));
14   }, []);
15
16   const { order, loading, } = useSelector(state => state.orderDetails);
17   const { success } = useSelector(state => state.order);
18
19   const { shippingAddress, orderItems, totalPrice, shippingPrice, itemsPrice, id, paymentMethod }
20     = order;
21   const [show, setShow] = useState(success);
22   console.log(success);
23   return (
24     <>
25     <div className="shipping">
26       <Sidebar/>
27     </div> <div className="shipping-details">
28       <div className="shipping-shippingAddress">
29         <h3>ORDER DETAILS</h3>
30         <div className="add-sec-area">
31           <div style={{margin: '20px 0'}}>Order ID: {id}</div>
32           <div>Shipping</div>
33           {shippingAddress}&&
```



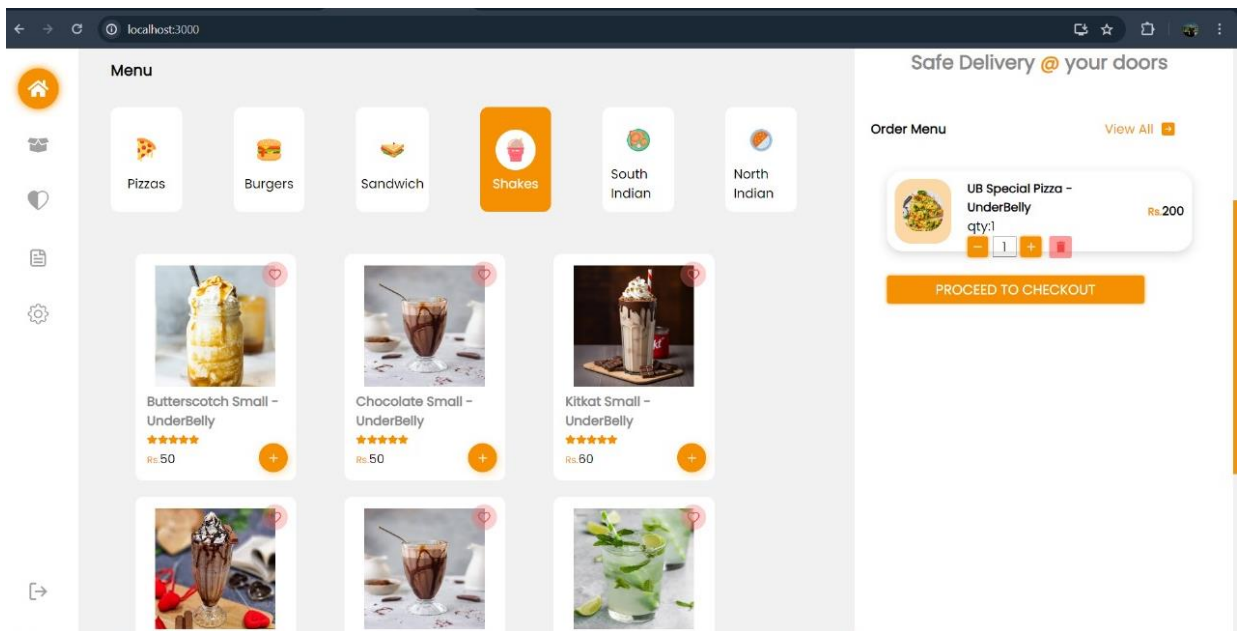
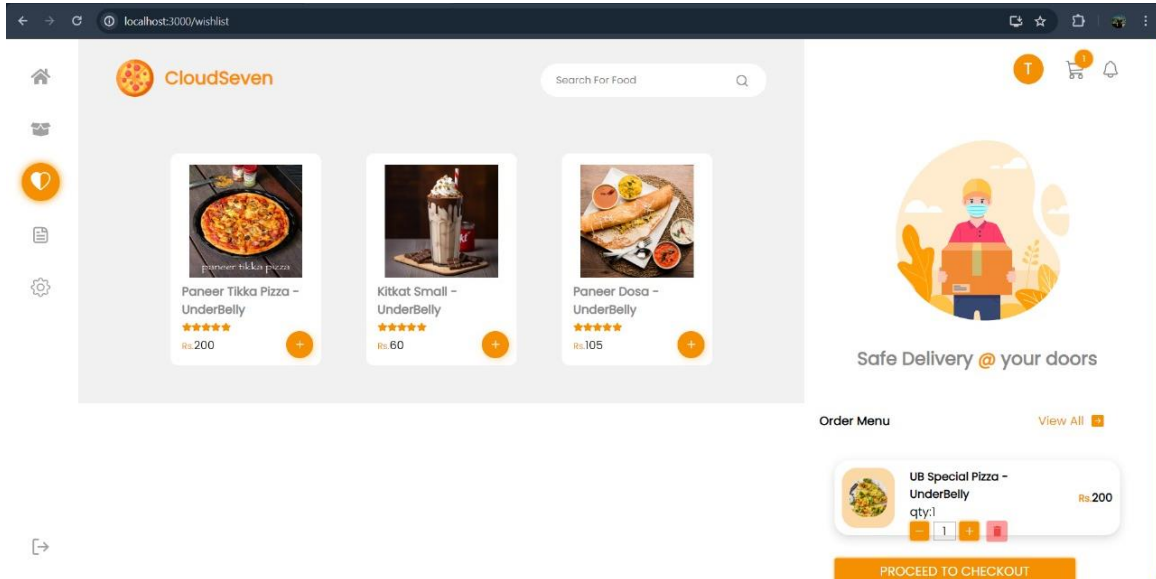
```
1 import express from 'express';
2 import expressAsyncHandler from 'express-async-handler';
3 import data from '../data.js';
4 import Product from '../models/products.js';
5 import Wishlist from '../models/wishlist.js';
6 import { isAuthenticated } from '../utils.js';
7
8 const productRouter = express.Router();
9
10 productRouter.get('/', expressAsyncHandler(async (req, res) => {
11   const products = await Product.find({category: req.query.category}) //return all products
12   res.send(products);
13 }));
14
15 productRouter.get('/search', expressAsyncHandler(async (req, res) => {
16   let regEx = new RegExp(req.query.name, 'i');
17   const searchedProducts = await Product.find({name: regEx});
18   if (searchedProducts) {
19     res.send(searchedProducts);
20   } else {
21     res.status(402).send({message: 'Oops No product found!!'});
22   }
23 }));
24
25 productRouter.post('/wishlist', isAuthenticated, expressAsyncHandler(async (req, res) => {
26   const item = await Wishlist.findOne({product: req.body._id});
27   if (item) {
28     res.status(409).send({message: 'Item Already exists'});
29   } else {
30
31   }
32 }));
```

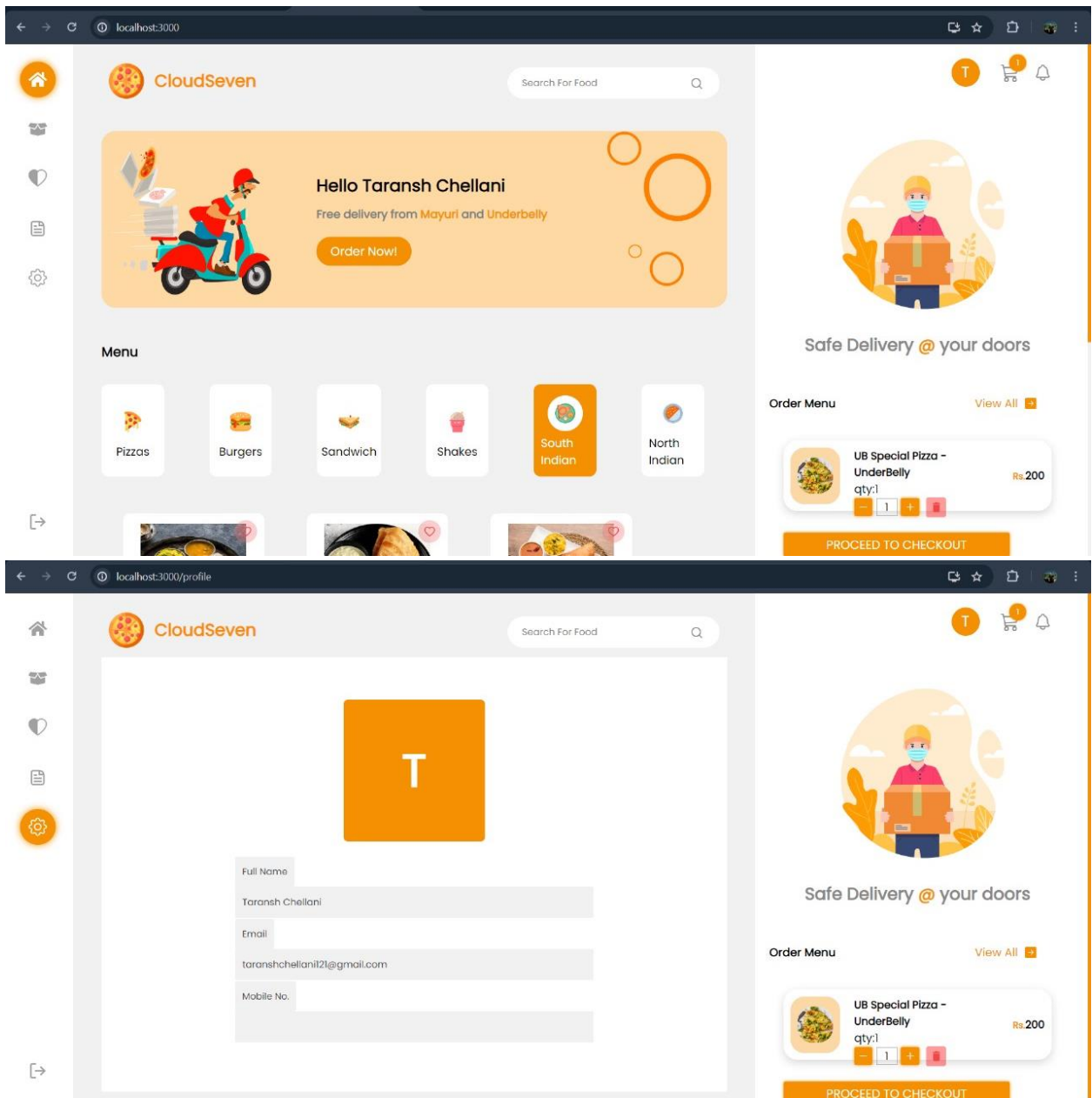



d) Results

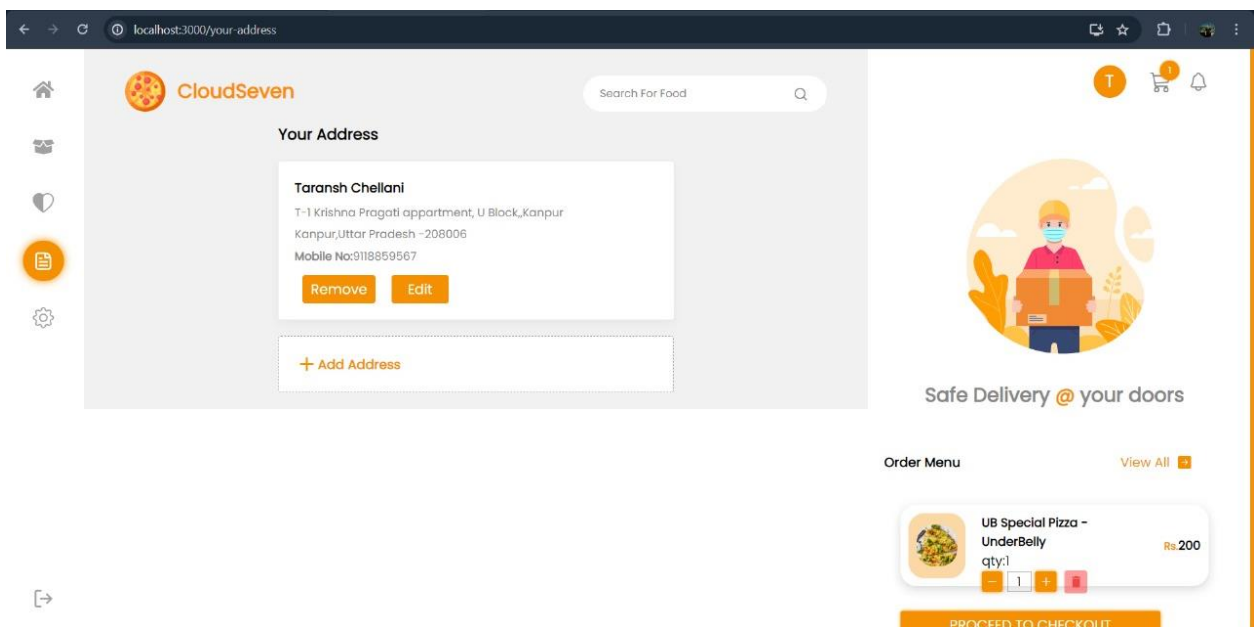
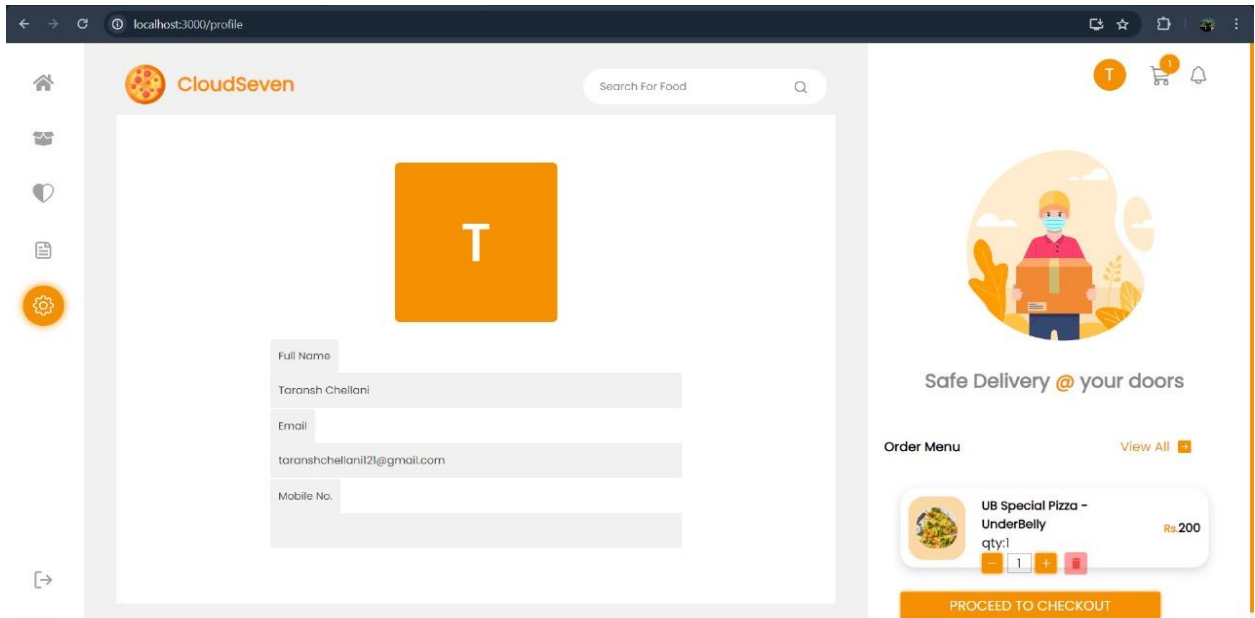
The expected result of the Cloud Se7en project is a transformative and impactful solution that successfully addresses the culinary needs of students living away from home. By leveraging Mongo DB cloud database and providing a user-friendly platform, the project aims to establish a seamless connection between students and

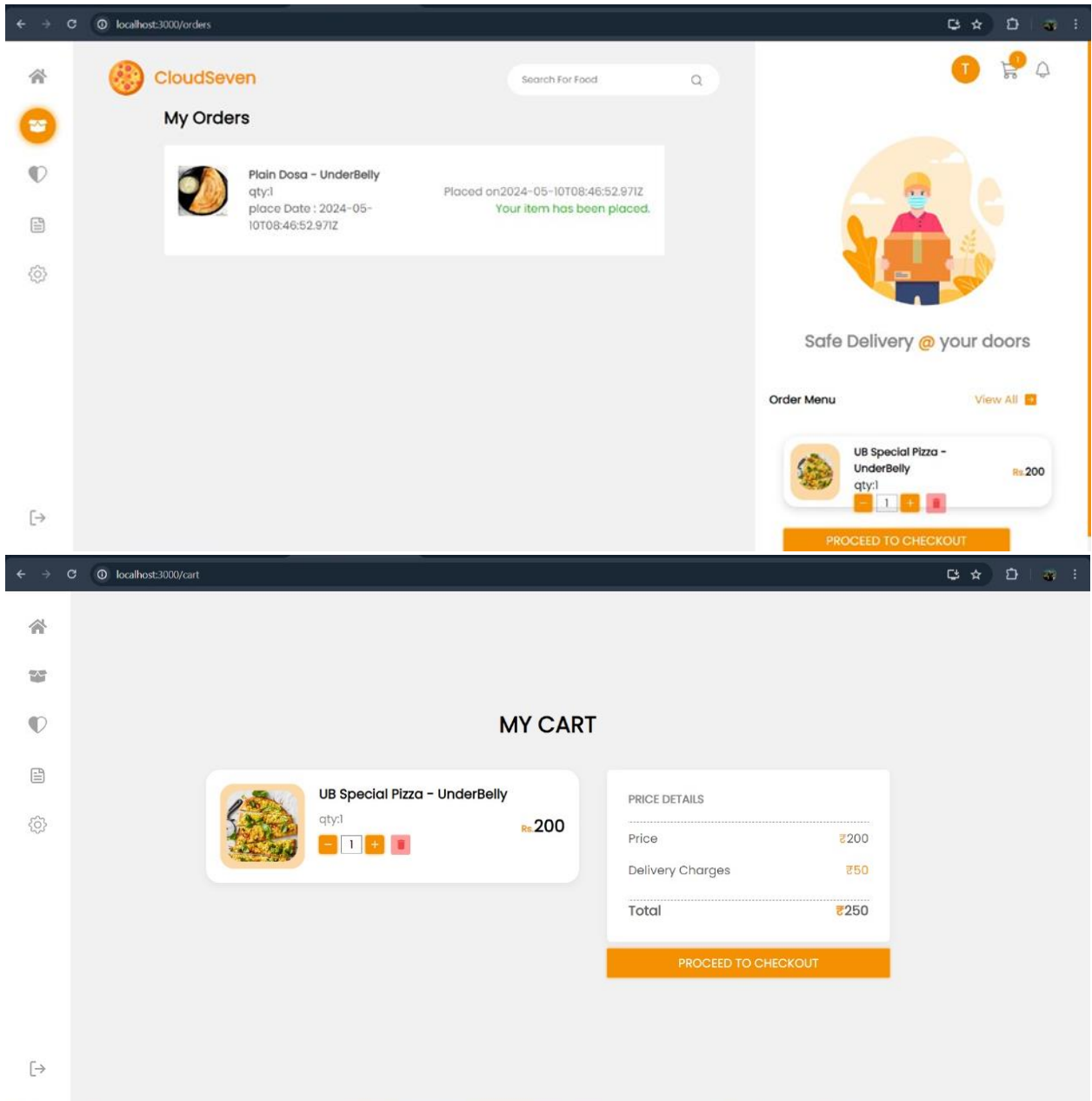
comfort meals. Anticipated outcomes include an improved sense of home and comfort for students, who can access a diverse range of nutritious, comfort options through a convenient and transparent ordering process. Home cooks or kitchens, on the other hand, are expected to benefit from an expanded market reach and the opportunity to showcase their culinary skills. The review and rating system incorporated into the platform is envisioned to foster a community-driven quality assurance mechanism, enhancing the overall user experience. Successful implementation of the project is expected to contribute to the broader landscape of cloud-based food services, demonstrating the potential for technology to bridge gaps in the modern lifestyle and bring the warmth of comfort meals to those pursuing education away from their hometowns. Additionally, the project may have positive implications for local economies by empowering home cooks and fostering a sense of community around shared culinary experiences. Overall, the expected result is a well-received, efficient, and sustainable Cloud Se7en platform that positively impacts the lives of students and home cooks alike.

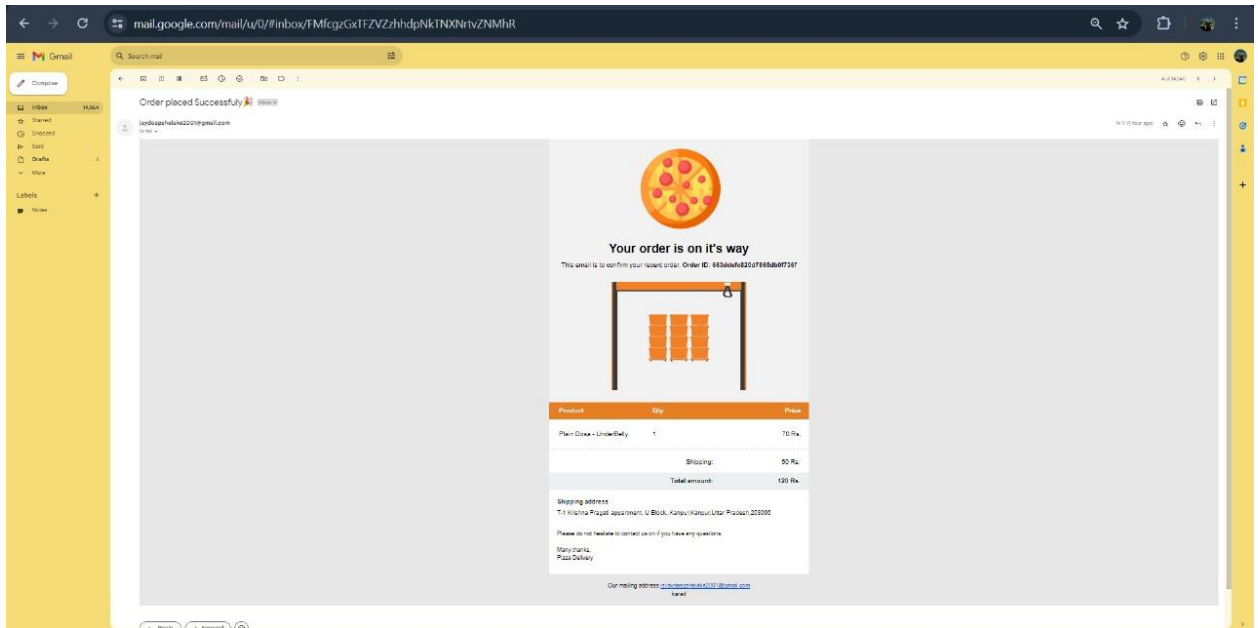




Log in Page:







e) Individual Contribution by members

- Taransh Chellani (21BSA10156) - Node Development
- Aryan Wadhawan (21BCE11215) - MongoDB
- Vandit Yadav (21BCY10004) - Css/bootstrap
- Sarthak Sharma (21BCE10161) -React
- Kaushal Kishore (21BCE11116) - Frontend
- Vanshika Tiwari (21BCE10791) – CSS / report
- Kumari Shivangi (21BHI10048) – UI/UX / report
- Aadya Varma (21BCE10853) – UI/UX / report
- Pranav Wagh(21BAI10390) - Frontend
- Swarnankita Saha (21BAI10436) - Frontend

● Taransh Chellani (21BSA10156) - Node Development

In the capacity of the Backend Developer, Taransh Chellani (21BSA10156) demonstrated expertise in Node.js and MongoDB, contributing to the robustness and efficiency of our digital kitchen system. They architecture scalable server architecture, leveraging Node.js to build a high-performance backend infrastructure capable of handling concurrent user requests.

● Aryan Wadhawan (21BCE11215) – MongoDB

Aryan Wadhawan (21BCE11215) implemented MongoDB for database management, ensuring efficient data storage and retrieval processes. Their proficiency in NoSQL databases facilitated seamless integration with the frontend, enabling smooth data transactions and real-time updates within the system.

● Vandit Yadav (21BCY10004) - Css/bootstrap

Vandit Yadav (21BCY10004) expertly utilized Bootstrap to streamline the styling and layout of frontend elements, achieving a consistent and visually appealing design across different devices and screen sizes. Their adeptness in responsive

web design principles ensured that the digital kitchen platform is accessible and optimized for users on various platforms and devices.

- **Sarthak Sharma (21BCE10161) -React**

Sarthak Sharma (21BCE10161) leveraged React.js to architect reusable and modular components, facilitating efficient development and maintenance of the frontend codebase. Their meticulous attention to detail and adherence to best practices resulted in a cohesive and scalable frontend architecture that seamlessly integrates with the backend functionalities.

- **Kaushal Kishore (21BCE11116) - Frontend**

Kaushal Kishore (21BCE11116) as the Frontend Developer, played a pivotal role in crafting the user-facing aspects of our digital kitchen project. He adeptly utilized HTML, CSS, and Bootstrap to style and structure the frontend components, achieving a visually appealing design that aligns with modern UI/UX principles.

- **Vanshika Tiwari (21BCE10791) – CSS / report**

Vanshika Tiwari (21BCE10791) meticulously crafted CSS stylesheets, ensuring a visually cohesive and engaging interface for our digital kitchen project. Their attention to detail and proficiency in CSS frameworks like Bootstrap expedited development, resulting in a polished and professional appearance across various devices. It significantly enhanced the frontend aesthetics and usability of our platform.

- **Kumari Shivangi (21BHI10048) – UI/UX / report**

As the UI/UX Designer, Kumari Shivangi (21BHI10048) played a pivotal role in to designing and implementing design mockups effectively, translating conceptual designs into functional frontend elements. Her attention to detail and dedication to usability significantly enhanced the overall user interface of our digital kitchen platform. At the same time she ran various tests to ensure that our design is accessible to all including differently abled person.

- **Aadya Varma (21BCE10853) – UI/UX / report**

Aadya Varma (21BCE10853) contributed towards the designing part of the website with shivangi to implement design mockups effectively, translating conceptual designs into functional frontend elements. Their attention to detail and dedication to

usability significantly enhanced the overall user interface of our digital kitchen platform.

- **Pranav Wagh(21BAI10390) – Frontend**

Pranav Wagh(21BAI10390) as the Frontend Developer, played a pivotal role in crafting the user-facing aspects of our digital kitchen project. He adeptly utilized HTML, CSS, and Bootstrap to style and structure the frontend components, achieving a visually appealing design that aligns with modern UI/UX principles.

- **Swarnankita Saha (21BAI10436) – Frontend**

Swarnankita Saha (21BAI10436) as the Frontend Developer, played a pivotal role in crafting the user-facing aspects of our digital kitchen project. She adeptly utilized HTML, CSS, and Bootstrap to style and structure the frontend components, achieving a visually appealing design that aligns with modern UI/UX principles.

4. CONCLUSION

In essence, the symbiotic relationship between cloud kitchens and their website created a dynamic ecosystem that fosters culinary creativity, economic efficiency, and customer satisfaction. As the food industry continues to adapt to changing consumer behaviors and technological advancements, the rise of cloud kitchens stands as a testament to the transformative power of innovation in reshaping traditional business models. Embracing the benefits of cloud kitchen and leveraging a well-crafted website positions businesses at the forefront of a culinary revolution, where the intersection of gastronomy and technology opens new avenues to help the society with advancements as well as success in the modern marketplace.

5. REFERENCES

1. <https://aws.amazon.com/iot/>
2. <https://cloud.google.com/solutions/iot>
3. <https://azure.microsoft.com/en-us/overview/iot/>
4. <https://www.ibm.com/cloud/internet-of-things>
5. <https://www.researchgate.net/>
6. <https://dl.acm.org/>
7. <https://www.sciencedirect.com/>
8. <https://arxiv.org/>
9. <https://www.scientific.net/amm.235.389>
10. <https://ieeexplore.ieee.org/abstract/document/7939846>
11. <https://ieeexplore.ieee.org/abstract/document/7490738>
12. <https://www.theseus.fi/handle/10024/353204>
13. <https://ieeexplore.ieee.org/abstract/document/10072879>
14. https://ink.library.smu.edu.sg/sis_research/1313/
15. https://www.sciencedirect.com/science/article/pii/S0164121213000915?casa_token=cfum1uBIHGoAAAAA:OcibMzNV27ep0XY5l61oMympOoZsU0Bh0knMew4LSBb7uVoYRLXFabds37Pl8B-PEVqKOO0e8zs
16. <https://books.google.com/books?hl=en&lr=&id=yyiPyIXgbxMC&oi=fnd&pg=PP16&dq=cloud+services&ots=wXPiMWH5MR&sig=UpX7QKIQwFXq8mcmH0bISdvt2bU>
17. <http://210.212.169.38/xmlui/handle/123456789/9814>
18. https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3856618
19. <https://search.proquest.com/openview/2bdd7bf9a7e1c5d52d571bf064d6796d/1?pq-origsite=gscholar&cbl=18750&diss=y>
20. <https://www.inderscienceonline.com/doi/abs/10.1504/IJPSPM.2021.117720>
21. https://link.springer.com/chapter/10.1007/978-3-319-41962-6_2
22. <https://knepublishing.com/index.php/KnE-Social/article/view/14923>
23. <https://www.sciencedirect.com/science/article/pii/S027843192100253X>

24. <https://ieeexplore.ieee.org/abstract/document/9357768/>
25. https://www.researchgate.net/profile/Rainer-Alt/publication/351599584_Digital_Transformation_in_the_Restaurant_Industry_Current_Developments_and_Implications/links/609f70ed92851cfd332f787/Digital-Transformation-in-the-Restaurant-Industry-Current-Developments-and-Implications.pdf
26. <https://www.sciencedirect.com/science/article/pii/S0169814122000932>
27. https://www.researchgate.net/profile/Mahesh-Bairwa-2/publication/363925145_RECENT_TRENDS_IN_TOURISM_HOSPITALITY/links/63356405ff870c55cee7e0e4/RECENT-TRENDS-IN-TOURISM-HOSPITALITY.pdf#page=147
28. https://www.emerald.com/insight/content/doi/10.1108/BFJ-02-2022-0095/full/html?casa_token=9TnMG0Lrnz0AAAAA:ZRGEGaJu5EzyFNc9pAZN9yy7IK_cyfxh6R7qu9wiWsLENdGOIU57u36FsadHsxYPNlRqms2ZN_mDJA44e3mzCyg5ayjMl0gfgNFfujY2zuXrCujwCahG
29. <https://www.mdpi.com/1660-4601/20/2/1550>
30. https://books.google.com/books?hl=en&lr=&id=MQpmCgAAQBAJ&oi=fnd&pg=PR9&dq=impact+of+cloud+kitchen+on+students+living+away+from+home&ots=Ubb0n_wTHn&sig=8K8-aRjHip95catYDFfvFD0b4tI

6. Biodata with Picture:

1. I, **Kaushal Kishore** (21BCE11116) currently pursuing B.Tech in **Computer Science Engineering** from VIT Bhopal.



2. I, **Taransh Chellani** (21BSA10156) currently pursuing B.Tech in Computer Science Engineering with a specialization in **Cloud Computing** from VIT Bhopal.



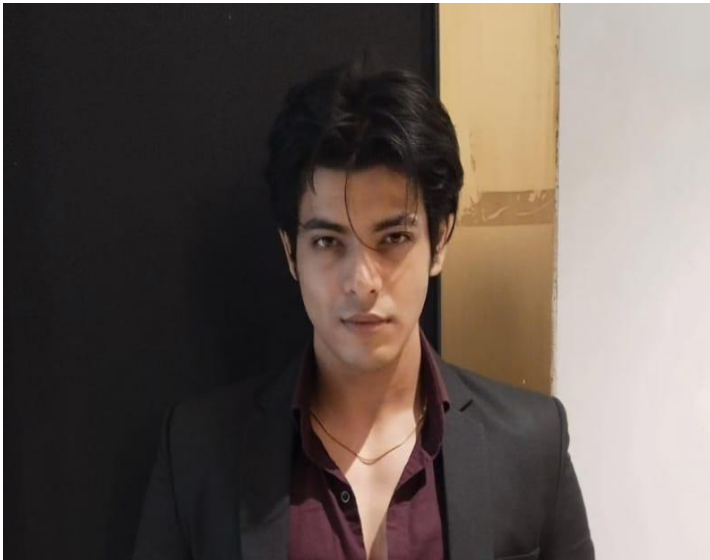
3. I, **Vandit Yadav** (21BCY10004) currently pursuing B.Tech in Computer Science Engineering with a specialization in **Cyber Security and Digital Forensics** from VIT Bhopal.



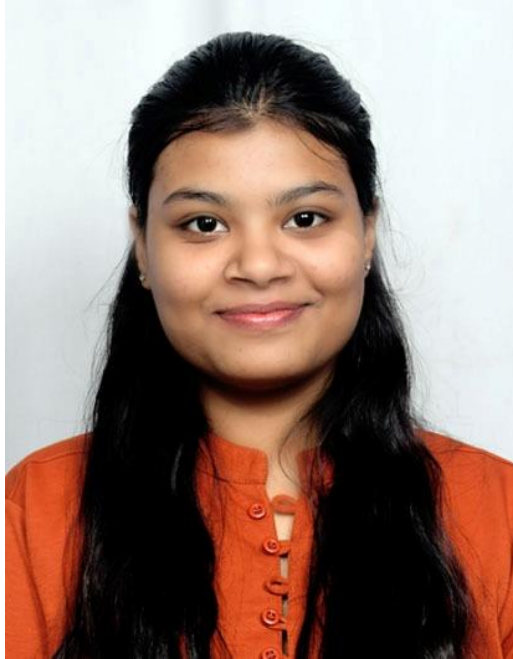
4. I, **Aryan Wadhawan** (21BCE11215) is currently pursuing B.Tech in **Computer Science Engineering**, from VIT Bhopal.



5. I, **Sarthak Sharma** (21BCE10161) currently pursuing B.Tech in **Computer Science Engineering** from VIT Bhopal.



6. I, **Aadya Varma** (21BCE10853) currently pursuing B.Tech in **Computer Science Engineering** from VIT Bhopal.



7. I, **Pranav Wagh** (21BAI10390) currently pursuing B.Tech in Computer Science Engineering with a specialization in **Artificial Intelligence and Machine Learning** from VIT Bhopal.



8. I, **Vanshika Tripathi** (21BCE10791) currently pursuing B.Tech in **Computer Science Engineering** from VIT Bhopal.



9. I, **Kumari Shivangi** (21BHI10048) currently pursuing B.Tech in **Computer Science with specialization in Health Informatics** from VIT Bhopal.



- 10. I, Swarnankita Saha (21BAI10436) currently pursuing B.Tech in Computer Science Engineering with specialization in Artificial Intelligence and Machine Learning from VIT Bhopal.**

