



RSET
RAJAGIRI SCHOOL OF
ENGINEERING & TECHNOLOGY
(AUTONOMOUS)

Mini Project Report On

CamBuzz: Where College Life Meets Convenience

*Submitted in partial fulfillment of the requirements for the
award of the degree of*

Bachelor of Technology

in

Computer Science & Business Systems

By

Rehan Renju Alunkal (U2109056)

Under the guidance of

Ms. Ancy C. A.

Department of Information Technology

Rajagiri School of Engineering & Technology (Autonomous)
(Parent University: APJ Abdul Kalam Technological University)

Rajagiri Valley, Kakkanad, Kochi, 682039

January 2024

CERTIFICATE

*This is to certify that the project report entitled "**CamBuzz: Where College Life Meets Convenience**" is a bonafide record of the work done by **Rehan Renju Alunkal (U2109056)**, submitted to the Rajagiri School of Engineering & Technology (RSET) (Autonomous) in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology (B. Tech.) in Computer Science & Business Systems during the academic year 2021-2025.*

Ms. Ancy C. A.

Project Guide

Associate Professor

Department of IT

RSET

Mr. Ajith Jacob

Project Coordinator

Assistant Professor

Department of IT

RSET

Dr. Neeba E. A.

Head of the Department

Associate Professor

Department of IT

RSET

ACKNOWLEDGMENT

I wish to express my sincere gratitude towards **Prof. (Dr.) P. S. Sreejith**, Principal of RSET, and **Dr. Neeba E. A.**, Head of the Department of Information Technology for providing us with the opportunity to undertake the project, "CamBuzz: Where College Life Meets Convenience".

I am highly indebted to our project coordinator, **Mr. Ajith Jacob**, Assistant Professor, Department of IT, for his valuable support.

It is indeed our pleasure and a moment of satisfaction for myself to express our sincere gratitude to our project guide **Ms. Ancy C. A.** for her patience and all the priceless advice and wisdom she has shared with us.

Finally, I express my appreciation to my teachers and friends whose encouragement and assistance provided me with the inspiration and momentum to bring CamBuzz to fruition. Thank you to everyone who has been a part of my journey, making CamBuzz a reality.

Rehan Renju Alunkal

Abstract

CamBuzz: Where College Life Meets Convenience is a purposeful web application meticulously designed to address the diverse needs of college students. With a primary focus on three key functionalities, the platform aims to simplify and enhance student life. In the realm of transportation, the Car Pooling feature provides a collaborative platform for students to book and offer rides. This not only eases the logistical challenges of commuting but also fosters an efficient and community-driven approach to transportation.

The Food Spot Recommendation feature allows students to explore and review local eateries, contributing to a comprehensive guide for dining options. By sharing personal experiences, ratings, and recommendations, students create a community-driven resource tailored to their culinary preferences. Central to the platform is the Event Hub, serving as a centralized platform that offers a comprehensive view of upcoming events around campus. External organizations are also welcome to share their events, creating a vibrant and inclusive space for community engagement.

These three functionalities collectively create a holistic and student-centric solution, promoting convenience, connectivity, and community engagement within the college environment. CamBuzz endeavors to streamline the daily experiences of students, making college life more enjoyable and fostering a sense of community.

Contents

Acknowledgment	i
Abstract	ii
List of Abbreviations	v
List of Figures	vi
1 Introduction	1
1.1 Background	1
1.2 Problem Definition	2
1.3 Scope and Motivation	2
1.4 Objectives	3
1.5 Challenges	3
1.6 Assumptions	3
1.7 Industrial Relevance	4
1.8 Organization of the Report	4
2 Literature Review	6
3 System Architecture	10
4 Requirements	13
4.1 Hardware Requirements	13
4.2 Software Requirements	13
4.2.1 Technological Tools	14
5 Design and Modeling	15
5.1 Data Flow Diagram	15
5.1.1 Level 0 DFD	15

5.1.2	Level 1 DFD	17
5.2	ER Diagram	20
5.3	Sequence Diagram	21
5.4	Class Diagram	22
5.5	Use Case Diagram	24
6	Results and Discussions	26
7	Conclusions & Future Scope	57
References		59
Appendix I: Presentation		60
Appendix II: Vision, Mission, Programme Outcomes and Course Outcomes		98

List of Abbreviations

UI: User Interface

UX: User Experience

HTML: Hypertext Markup Language

CSS: Cascading Style Sheets

JS: JavaScript

SQL: Structured Query Language

ER Diagram: Entity-Relationship Diagram

DFD: Data Flow Diagram

UML: Unified Modeling Language

API: Application Programming Interface

QR Code: Quick Response Code

IEDC: Innovation and Entrepreneurship Development Centre

List of Figures

3.1	Block Diagram	10
5.1	Level 0 DFD	16
5.2	Level 1.1 DFD	18
5.3	Level 1.2 DFD	19
5.4	Level 1.3 DFD	20
5.5	ER Diagram	21
5.6	Sequence Diagram	22
5.7	Class Diagram	23
5.8	Use Case Diagram	25

Chapter 1

Introduction

In the dynamic landscape of college life, where connectivity and convenience are paramount, CamBuzz emerges as a transformative web application tailored to meet the diverse needs of students. Encompassing three core functionalities—Car Pooling, Food Spot Recommendation, and Event Hub—CamBuzz serves as the nexus where College Life Meets Convenience.

1.1 Background

In the realm of college life, daily challenges in transportation, dining, and event discovery often disrupt the student experience. CamBuzz steps in as a straightforward web application designed to simplify these aspects. The project recognizes the need for a centralized solution, acknowledging the dynamic nature of student routines.

Inspired by the evolving landscape of student life, CamBuzz integrates three core functionalities: Car Pooling, Food Spot Recommendation, and Event Hub. This simple yet impactful approach aims to reshape how students navigate their college journey, providing a streamlined platform for essential tasks.

By leveraging modern web technologies, CamBuzz envisions a future where students effortlessly access transportation, discover local gems, and stay updated on events. The project's simplicity is intentional, focusing on quality interactions and a user-centric design to enhance the overall college experience.

CamBuzz emerges as a response to contemporary challenges, offering a reliable and intuitive solution that aligns with the evolving needs of the college community. In essence, it is a thoughtful initiative where College Life Meets Convenience.

1.2 Problem Definition

CamBuzz seeks to address the challenges students face in navigating various fragmented platforms for transportation, dining, and event information within the college ecosystem. The current landscape lacks a centralized solution, leading to inefficiencies and missed opportunities for a seamless student experience. By providing a unified platform, CamBuzz aims to streamline transportation, dining recommendations, and event discovery, filling a crucial gap in the college community's daily life and enhancing overall convenience and connectivity.

1.3 Scope and Motivation

CamBuzz envisions creating a straightforward and user-friendly web application tailored for college students, aiming to simplify their daily experiences. The project's scope revolves around developing a cohesive platform that addresses common challenges in college life, promoting convenience and connectivity. CamBuzz strives to offer a unified solution, streamlining essential aspects without overwhelming complexities. Motivated by the desire to enhance the overall college experience, the project seeks to fill existing gaps in student life, providing a reliable and intuitive tool where College Life Meets Convenience.

CamBuzz isn't just a project for myself; it's a reflection of our personal journey through college life. As students ourselves, we've experienced the challenges of coordinating rides, exploring local dining options, and staying in the loop about campus events. These daily struggles inspired myself to create something meaningful—a solution that simplifies these aspects for every student. Our motivation stems from a deep understanding of the unique dynamics of college life and a genuine desire to enhance it. CamBuzz is more than a web application; it's our contribution to making college days smoother, more connected, and truly enjoyable. I am driven by the shared experiences of our college community, and it's this personal connection that fuels our passion to create a tool that resonates with students, offering a seamless blend of convenience and community.

1.4 Objectives

- Integrated College Life Platform: Combine Car Pooling, Food Spot Recommendation, and Event Hub for a unified solution, simplifying daily college life.
- Scalability and Adaptability: Build CamBuzz to be scalable, accommodating potential future features and an expanding user base while ensuring relevance and efficiency.
- Comprehensive Information: Provide students with comprehensive details, such as ride information, dining spot reviews, and upcoming events, enhancing their understanding and decision-making.
- Efficient Processes: Streamline the user experience, making it easy for students to coordinate rides, explore dining options, and stay updated on campus events.
- Student Experience: Strive to enhance the overall student experience by addressing specific challenges and simplifying essential aspects of college life.

1.5 Challenges

CamBuzz users may face challenges in getting used to the platform's interface and functionalities, and connectivity issues might affect real-time coordination of rides and event updates, especially in areas with weak internet signals. Adapting to a new system, understanding its benefits, and addressing privacy concerns could pose difficulties. Additionally, creating a positive and inclusive environment while balancing individual preferences may be challenging, requiring ongoing efforts to enhance the overall user experience. Managing diverse user feedback and adapting to changing campus dynamics will be crucial for the platform's success.

1.6 Assumptions

I assume that users will provide accurate information during ride booking and event coordination to maintain data reliability. A stable internet connection is anticipated for seamless real-time interactions with the system. As the platform involves direct transactions between users for rides or events, we assume users will engage in fair and secure

exchanges without the need for intermediaries like banks. Additional assumptions include system compatibility across various devices, adherence to data privacy regulations, and positive user adoption of the new features and functionalities. These foundational assumptions guide the trajectory of our project, allowing for flexibility to adjust based on real-world feedback and evolving requirements.

1.7 Industrial Relevance

CamBuzz's profound relevance stems from its tailored approach to addressing key challenges within the college environment. The Car Pooling functionality not only streamlines transportation coordination but also fosters a sustainable and cost-effective commuting solution for students without personal vehicles. This not only enhances convenience but also aligns with growing trends in sustainable mobility, making CamBuzz an impactful contributor to campus transportation dynamics.

Moreover, the Food Spot Recommendation and Event Hub functionalities directly cater to students' lifestyle needs. By providing curated dining options and real-time event updates, CamBuzz becomes an indispensable tool for enhancing students' daily lives. This not only positively influences their well-being but also contributes to local businesses and fosters a vibrant campus culture. As a holistic solution, CamBuzz sets a new standard for collaborative platforms within educational institutions, offering valuable insights for industries seeking to enhance connectivity, convenience, and community engagement in the broader sharing economy.

1.8 Organization of the Report

The report on CamBuzz is structured into 8 chapters and 2 appendices, providing a comprehensive exploration of the project's development and outcomes.

Chapter 1 serves as a foundational introduction, covering the background, scope, motivation, objectives, challenges, assumptions, and industrial relevance of CamBuzz. This chapter provides a holistic primer for readers, setting the stage for the subsequent detailed exploration.

Chapter 2 delves into the literature review, contextualizing the development and outlining the methodology. Critical analyses of existing systems and technologies are pre-

sented to highlight the advantages and disadvantages addressed by CamBuzz.

Chapter 3, the core of the report, discusses the system architecture in detail. It elucidates the various components and modules, explaining their interrelationships and justifying the chosen architecture in alignment with project goals and requirements.

Chapter 4 outlines the software and hardware requirements meticulously, specifying the necessary components and software stack. The chosen configurations are justified based on fulfilling the project's specific needs.

Chapter 5 offers a comprehensive overview of the design process, detailing and justifying the employed design and modeling techniques, including Data Flow Diagrams, Entity-Relationship Diagrams, and various UML diagrams.

Chapter 6 presents the results of the project, critically examining outcomes against anticipated results and discussing strengths and areas for improvement, providing insights for future endeavors.

Chapter 7 summarizes key findings, outlining implications for the organization, and concludes with recommendations for future work, providing a comprehensive closure to the report.

The References chapter lists all sources cited throughout the report, ensuring proper acknowledgment of external contributions.

Appendix I includes presentation slides used during project discussions, offering visual support to the textual content.

Appendix II provides an overview of the institution's and department's vision and mission, along with details on course outcomes and program outcomes, offering additional context for the project.

In summary, this chapter provides a roadmap for readers to delve into the CamBuzz project, introducing its background, objectives, challenges, and industrial relevance. Serving as a guide, it sets the stage for an in-depth exploration of the project's architecture, requirements, design, and outcomes. The report aims to offer a concise and comprehensive understanding of CamBuzz and its impact within the college community.

Chapter 2

Literature Review

This chapter explores existing knowledge relevant to CamBuzz, a multifunctional platform integrating carpooling, food spot recommendations, and an event hub. Drawing insights from a variety of publications and studies, this literature review aims to establish a solid foundation for CamBuzz, considering technologies, user expectations, and industry trends specific to carpooling, food recommendations, and event management.

[1]Y. Gao, W. Yu, P. Chao, R. Zhang, A. Zhou, and X. Yang, “A Restaurant Recommendation System by Analyzing Ratings and Aspects in Reviews,” Lecture Notes in Computer Science, Jan. 01, 2015. <https://doi.org/10.1007/978-3-319-18123-3-33>

The restaurant recommendation system presented in this paper focuses on predicting user preferences by analyzing reviews and ratings. Leveraging latent factors discovered through topic modeling of review texts, the system aims to offer personalized restaurant recommendations. With the proliferation of customer reviews and the popularity of platforms like Yelp and Dianping, the system explores the correlation between hidden aspects in reviews and numeric ratings to enhance the accuracy of recommendations.

Features:

The system incorporates a Profile Generator that maps users and restaurants to a common latent space discovered from review texts using Latent Dirichlet Allocation (LDA). It then constructs profiles for users and restaurants based on these aspects, creating a foundation for personalized recommendations. The Rating Predictor utilizes regression models, including linear and logistic regression, to predict user ratings for restaurants, considering the discovered latent factors. The interface provides users with representative

reviews and recommended restaurants.

Advantages:

Personalization: The system offers personalized recommendations by considering hidden aspects in reviews, providing users with suggestions tailored to their preferences. Efficient Browsing: Users can efficiently access representative restaurant reviews, fostering a more informed decision-making process. Leverages Review Text: By extracting latent factors from review text, the system taps into valuable information within user opinions, contributing to more accurate predictions.

Disadvantages:

Dependency on Review Quality: The system's effectiveness heavily relies on the quality and quantity of available reviews. Limited or biased reviews may impact the accuracy of recommendations. Sensitivity to Topic Modeling Parameters: The performance may be influenced by the choice of parameters in topic modeling techniques like LDA, requiring careful tuning for optimal results. Cold Start Challenge: New users or restaurants with limited review data pose a challenge, as the system relies on historical reviews to create user and restaurant profiles.

[1]L. Mitropoulos, A. Kortsari, and G. Aifadopoulou, “A systematic literature review of ride-sharing platforms, user factors and barriers,” European Transport Research Review, Dec. 01, 2021. <https://doi.org/10.1186/s12544-021-00522-1>

The systematic literature review navigates the realm of ride-sharing, an evolving on-demand transportation service with the core objective of promoting sustainable mobility and optimizing vehicle utilization. By comprehensively analyzing existing studies worldwide, the paper aims to unveil pivotal aspects of ride-sharing, including the diverse landscape of online platforms, user-centric factors influencing participation, and the complex array of barriers that can impede the successful integration of ride-sharing services.

Features:

Ride-sharing platforms are characterized by diverse features aimed at enhancing user experiences and operational efficiency. These encompass intuitive mobile applications facilitating seamless ride booking, real-time tracking, and cashless transactions. Dynamic pricing models, smart route optimization, and user feedback mechanisms contribute to the adaptability and effectiveness of ride-sharing systems.

Advantages:

Ride-sharing offers a multitude of advantages, ranging from environmental sustainability and reduced traffic congestion to cost-effective and convenient transportation alternatives. By maximizing vehicle occupancy, ride-sharing contributes to lowering individual carbon footprints, fostering community-driven transportation solutions, and providing accessible mobility options in diverse urban landscapes.

Disadvantages:

Despite its merits, ride-sharing encounters challenges, such as issues related to passenger safety, privacy concerns, and fluctuations in service quality. Additionally, the dependence on technology and potential disruptions to traditional transportation industries may pose socio-economic challenges. Striking a balance between innovation and addressing these drawbacks remains crucial for the sustained success of ride-sharing initiatives.

The literature review explores the landscape of restaurant recommendation systems, focusing on the paper titled ”A Restaurant Recommendation System by Analyzing Ratings and Aspects in Reviews.” Authored by Yifan Gao, Wenzhe Yu, Pingfu Chao, Rong Zhang, Aoying Zhou, and Xiaoyan Yang, the paper introduces a restaurant recommender system that analyzes ratings and aspects in reviews. The work emphasizes the correlation between hidden aspects in reviews and numeric ratings to enhance user-item preferences prediction. The system incorporates topic modeling to discover hidden aspects, creates user and restaurant profiles, and employs regression models for relationship detection. Key components include the profile generator and rating predictor. The literature review highlights the significance of user reviews, the application of Latent Dirichlet Allocation (LDA) for topic modeling, and the effectiveness of the proposed system in predicting user preferences. The paper contributes valuable insights to recommender system research, showcasing the advantages of its methodology through experiments and discussing potential implications for future work.

Chapter 3

System Architecture

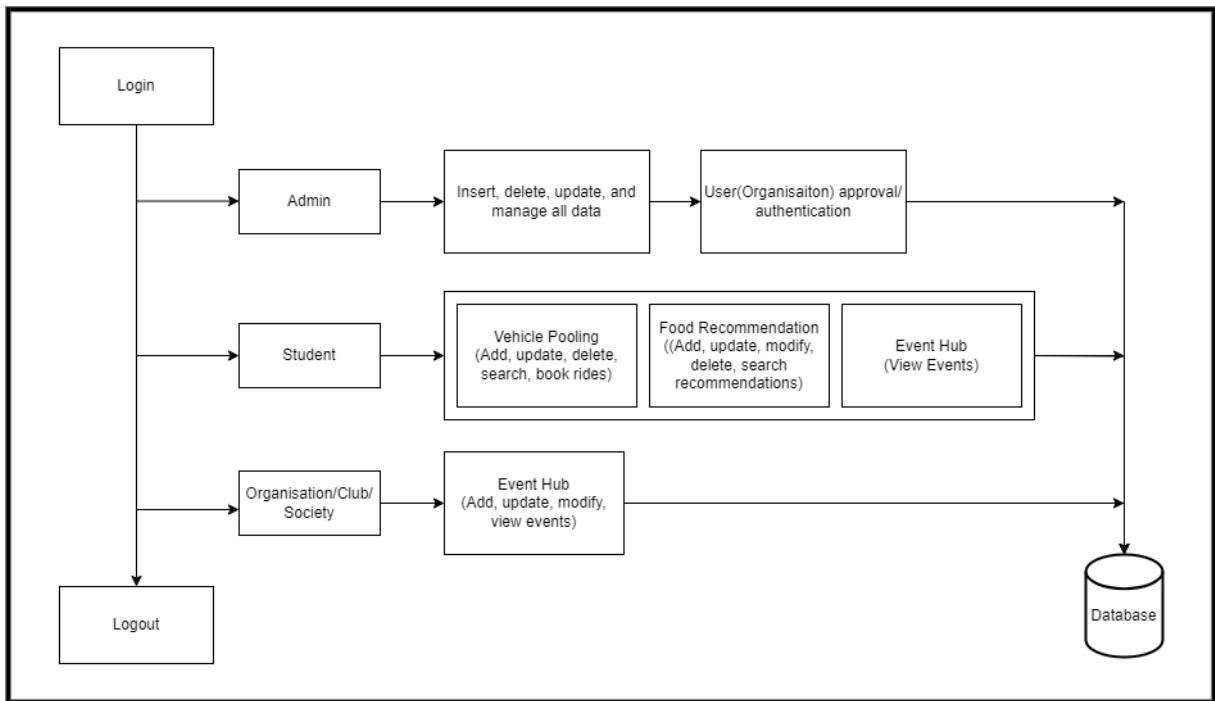


Figure 3.1: Block Diagram

The system architecture of CamBuzz serves as the backbone that delineates the organization, interactions, and workflow of the entire platform. This chapter provides a comprehensive exploration of how the system is structured, elucidating the relationships among its crucial components and outlining the functionalities tailored for both admin and user roles. With a user-centric approach, the architecture is meticulously designed to guarantee a seamless and efficient process, encompassing every facet from user login to database updates. This user-focused design ensures a smooth user experience at every juncture of CamBuzz's operation, embodying a commitment to simplicity and effectiveness in the realm of student lifestyle management.

System Architecture Detailed Explanation:

In Figure 3.1, the comprehensive CamBuzz system architecture is unveiled, delineating the intricate framework orchestrating the dynamics of the student lifestyle management platform. This architecture revolves around three pivotal user roles: the admin, responsible for administrative functions, students engaging in daily activities, and organizations/clubs actively contributing to the student community.

The system initiation is rooted in user interactions, directing users—admins, students, or organizations/clubs—to the login block. Post-initiation, a crucial aspect is the identification of the user role, whether admin, student, or organization/club, following a successful login attempt. Robust security measures are integrated, redirecting users to the login block for retrial in cases of login failure, ensuring a stringent and secure authentication process.

Admin Role:

Within CamBuzz, the admin role is paramount, wielding the authority to insert, delete, update, and manage all data integral to the system. Handling tasks ranging from data manipulation to system approvals and authentication, the admin plays a pivotal role in ensuring the integrity and accuracy of information. With the power to manage and authenticate user actions, the admin acts as the linchpin, overseeing a seamless and secure operational environment.

Student Role:

In the realm of CamBuzz, students wield the power to navigate and engage with key features tailored to their needs. With a focus on collaborative mobility, students can seamlessly add, update, delete, search, and book rides through the carpooling feature. Delving into gastronomic explorations, the food recommendation functionality empowers students to add, update, modify, delete, and search recommendations, fostering a community-driven culinary experience. Additionally, the Event Hub beckons, allowing students to effortlessly view and participate in a spectrum of events, enriching their collegiate journey.

Organization Role:

Within the CamBuzz platform plays a pivotal role in enhancing the collaborative and dynamic nature of the Event Hub. With a primary focus on event management, organizations and clubs hold the ability to add, update, modify, and view events. This exclusive set of functionalities allows them to seamlessly contribute to the platform's event calendar, ensuring a vibrant and engaging array of activities. By providing organizations and clubs with the capability to interact specifically with the event-related features, CamBuzz promotes a well-organized and diverse event ecosystem, fostering community engagement and inclusivity within the platform.

A notable feature is the dynamic update of the database to reflect each customer interaction, ensuring that the information presented remains accurate and up-to-date in real-time. The overarching architecture prioritizes both user satisfaction and data integrity, ensuring that the entire user experience is not only efficient but also intuitive.

In summary, the system architecture chapter provides a comprehensive overview of the intricate framework governing the CamBuzz platform. Centered around three user roles—admin, student, and organization/club—the architecture ensures a seamless and efficient experience. The detailed block diagram illustrates the initiation of the system, emphasizing the secure login process and user role identification. For the admin, pivotal tasks involve data management, approval, and authentication, executed through a sophisticated dashboard. Students engage in carpooling, food recommendation, and event hub activities, with the architecture facilitating dynamic database updates in real-time. Additionally, organizations/clubs contribute to the vibrant event ecosystem by adding, updating, modifying, and viewing events. The modular and user-friendly design prioritizes user satisfaction, data integrity, and efficient interactions, ultimately shaping a secure and satisfying user experience.

Chapter 4

Requirements

The system requirements chapter serves as a pivotal bridge between the design and implementation phases of our project. In this section, we articulate the specific needs and functionalities the system must fulfill, providing a comprehensive roadmap for developers and stakeholders alike.

4.1 Hardware Requirements

To ensure optimal performance and a seamless user experience, the Cambuzz system requires specific hardware configurations. The computational backbone relies on a **multi-core processor**, providing efficient task handling and responsiveness. With a **minimum of 4GB of RAM**, the system accommodates concurrent processes, enhancing overall performance. A **stable network** environment is crucial for real-time interactions between users and the platform. The system's **compatibility with various operating systems** promotes accessibility and usability across different devices. These hardware prerequisites collectively contribute to Cambuzz's robustness, reliability, and effectiveness in delivering an integrated solution for student lifestyle management.

4.2 Software Requirements

IDE : Visual Studio Code

Front-end : HTML, JS & CSS

Back-end : Django framework

Database : postgresql

Version control : git/github

Cambuzz leverages an integrated development environment (IDE) with Visual Studio Code, offering a user-friendly interface and powerful tools to streamline the coding and development process. The project employs HTML and CSS as markup languages for crafting structured and visually appealing web pages, contributing to an intuitive user interface. JavaScript plays a pivotal role in implementing core functionalities and dynamic elements, enabling interactive features that enhance the overall user experience. The Django framework, a robust web development framework, serves as the backbone of the back-end, ensuring seamless integration of data and functionalities with Python, a versatile programming language. Postgresql is chosen as the database management system, providing reliability and scalability to manage diverse data related to carpooling, food recommendations, and event planning. Version control is facilitated through Git/GitHub, allowing for efficient collaboration and code management throughout the development process.

4.2.1 Technological Tools

Web Framework : Django

In conclusion, the delineated hardware and software requirements form the cornerstone of a robust and efficient system for Cambuzz. The prescribed multi-core processor, 4GB minimum memory (RAM), stable network, and compatibility with various operating systems constitute the essential hardware support. On the software side, the utilization of Visual Studio Code as the integrated development environment (IDE) alongside HTML, JS, CSS, Python, Django framework, and Postgresql ensures a comprehensive and dynamic development ecosystem. These meticulously chosen requirements collectively underpin the system's functionality, performance, and user experience, aligning with the goal of delivering a seamless and responsive application tailored to the needs of the student community.

Chapter 5

Design and Modeling

This chapter delves into the intricate design and modeling aspects of the CamBuzz system, aiming for an efficient and user-centric approach. The design process embraces a comprehensive strategy, utilizing various models to elucidate the system's architecture and functionality. Among these models are Data Flow Diagrams (DFD), Entity-Relationship (E-R) Diagrams, and Unified Modeling Language (UML) diagrams, including Use Case Diagrams, Sequence Diagrams, Activity Diagrams, and Class/Object Diagrams. Each model serves a pivotal role in clarifying the system's structure, interactions, and data flow, fostering a deep understanding of its design principles and elevating its potential for seamless operation.

5.1 Data Flow Diagram

Data Flow Diagrams (DFDs) serve as visual tools illustrating how information moves within our system. These diagrams aid in designing a streamlined data flow, contributing to the efficiency of our processes and enhancing user experiences.

5.1.1 Level 0 DFD

The Level 0 Data Flow Diagram (DFD) acts as a guiding map for future explorations into more detailed DFD levels, where each subsequent level will develop deeper into specific processes, subprocesses, and data flows.

In the Level 0 Data Flow Diagram (DFD) of CamBuzz, the diagram distinctly outlines the primary interactions and data flows between different user roles within the Student Lifestyle Management System. For the Student users, the central focus lies on the initiation and management of various functionalities. Students are prominently involved in actions related to carpooling, food recommendations, and participation in events. The

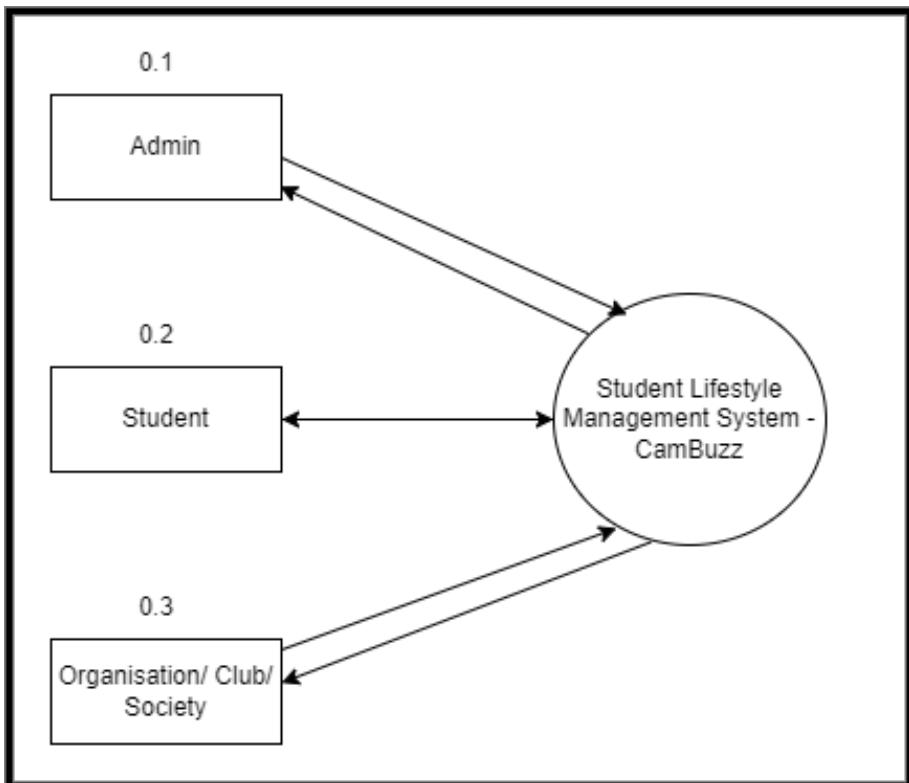


Figure 5.1: Level 0 DFD

DFD succinctly illustrates the flow of information from the Student to the system, depicting processes such as adding, updating, deleting, searching, and booking rides for car-pooling, modifying, deleting, and searching food recommendations, and viewing events in the event hub.

Simultaneously, the diagram highlights the role of the Administrator, who plays a pivotal role in managing the overall system. Administrators are depicted engaging in essential processes related to data management, including adding, updating, modifying, and viewing various aspects of the system. The data flow from the Administrator to the system showcases how administrative actions seamlessly integrate within the system architecture, ensuring the integrity of data. This Level 0 DFD offers a comprehensive overview of the core functionalities and interactions within the CamBuzz system, illustrating the seamless collaboration between Student users and Administrators for an effective Student Lifestyle Management experience.

5.1.2 Level 1 DFD

The Level 1 Data Flow Diagram (DFD) provides a detailed overview of the CamBuzz system, breaking down the processes and interactions between different components. It zooms in on the main functions identified in the Level 0 DFD and further decomposes them into sub-functions. Each process is illustrated with a series of data inputs, outputs, data stores, and the various entities involved in the system. This diagram acts as a bridge between the high-level abstraction of Level 0 and the more intricate details of the internal workings of each process. It offers a comprehensive and structured visualization, allowing for a deeper understanding of the flow of information and actions within the CamBuzz system.

Level 1.1 DFD

The Level 1.1 Data Flow Diagram (DFD) hones in on the intricate details of administrative functions within CamBuzz, focusing solely on the admin role. At its core, the diagram illustrates the processes related to managing student details, organization information, and vehicle listings. The "Admin Login" process signifies the initial step, allowing administrators to access the system securely. Once authenticated, the admin gains the authority to insert, update, delete, and manage student details through interactions with the "Student Table." Simultaneously, the admin holds the reins for handling organization-related tasks, including managing organization details and approving organization registrations, interconnected with the "Organisation Table." Additionally, the admin oversees various aspects of vehicle listings, ride bookings, recommendations, restaurant details, and event listings, maintaining control through interactions with respective tables dedicated to each function. This granular depiction offers a clear snapshot of the multifaceted responsibilities that the admin undertakes within CamBuzz, ensuring a well-organized and efficient system administration.

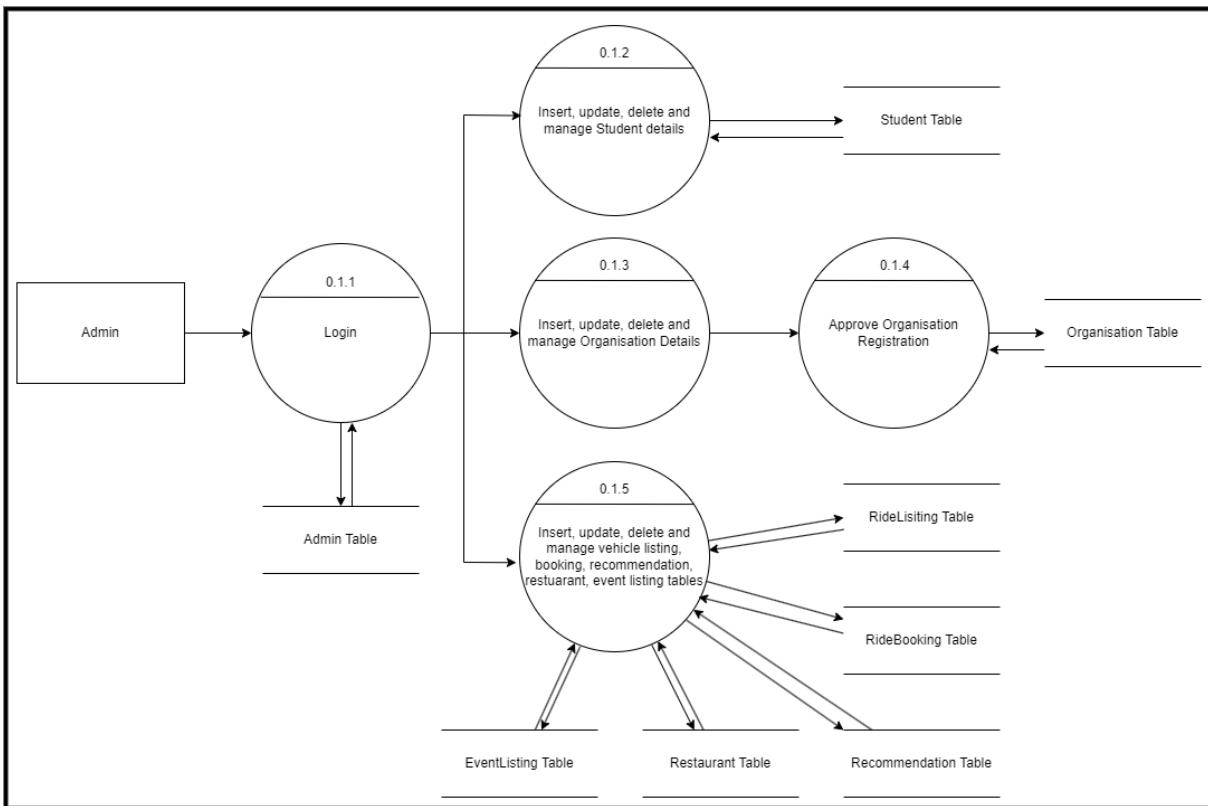


Figure 5.2: Level 1.1 DFD

Level 1.2 DFD

The Level 1.2 Data Flow Diagram (DFD) for CamBuzz spotlights the tailored functionalities designed exclusively for students. Beginning with registration and login processes managed through the "Student Table," students unlock a range of personalized actions. From updating profiles, changing passwords, to even account deletion, these operations reflect seamless interactions with the student-centric data structure.

The diagram then navigates through ride-related functionalities, allowing students to add, update, delete, view, search, and filter rides, influencing the "RideListing Table." Ride bookings seamlessly integrate with the "Ride Booking Table." Moreover, students engage with restaurant recommendations, exercising control over adding, updating, deleting, viewing, searching, and filtering recommendations, impacting the "Recommendation Table." The inclusion of event-related interactions, such as viewing and registering for events, completes the holistic portrayal of student-focused features within the CamBuzz system.

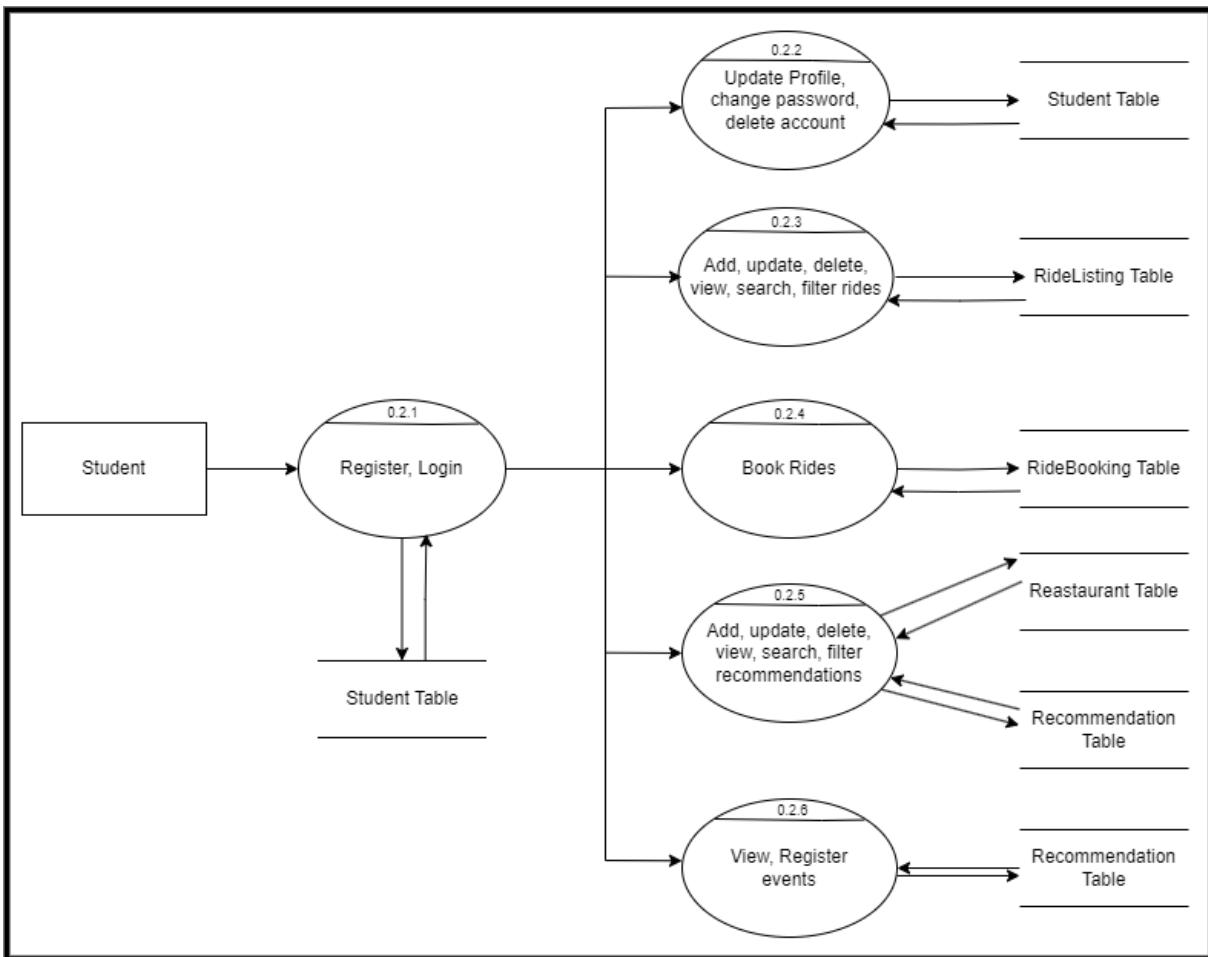


Figure 5.3: Level 1.2 DFD

Level 1.3 DFD

The Level 1.3 Data Flow Diagram (DFD) unveils the specialized functionalities dedicated to organizations, clubs, and societies within the CamBuzz ecosystem. Administered through the "Organisation Table," these entities navigate a spectrum of operations. Beginning with the essential registration and login processes, organizations gain access to their exclusive domain. Here, they can manage profile details, execute password changes, or opt for account deletion, fostering control over their digital presence through interactions with the "Organisation Table." The diagram then delves into event-related functionalities, empowering these entities to add, update, delete, view, and search events, influencing the "EventListing Table." In essence, this depiction encapsulates the comprehensive set of tools and capabilities designed to cater specifically to the unique needs and contributions of organizations within the CamBuzz platform.

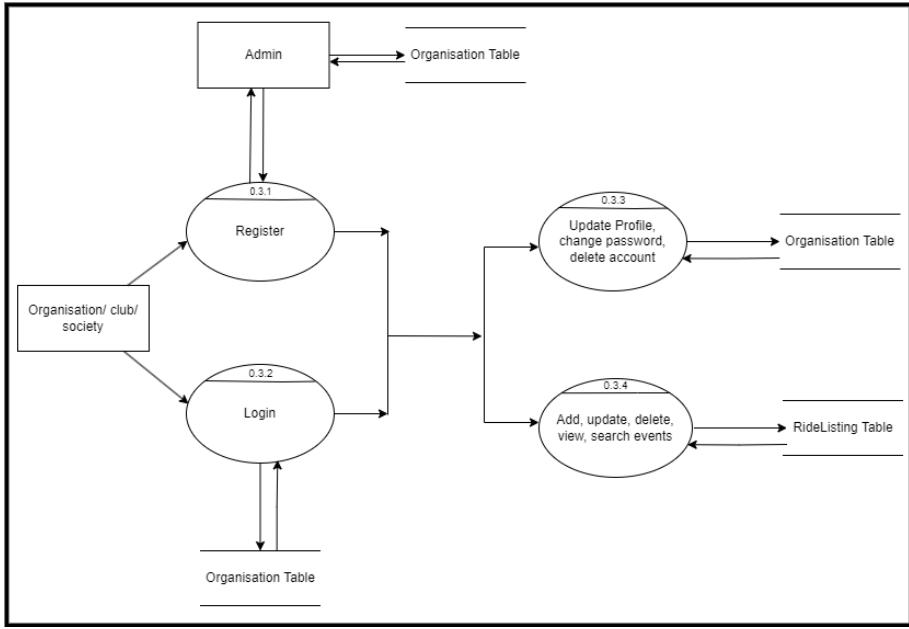


Figure 5.4: Level 1.3 DFD

5.2 ER Diagram

The ER (Entity-Relationship) Diagram for CamBuzz encapsulates a network of seven interconnected entities, each playing a distinct role in shaping the dynamics of the platform. These entities include "ride-listing," "ride-booking," "admin," "student," "organization," "recommendation," "restaurant," and "event-listing."

The "ride-listing" entity serves as a repository for details related to available rides, uniquely identified by a RideID. Concurrently, the "ride-booking" entity intertwines with "student" to capture the specifics of ride reservations, forming a vital connection between students and their booked rides. The entities "admin" and "student" represent the user dynamics within the system. "Organization" stands as a distinct entity, aligning with "event-listing" to govern the details of organized events.

The "recommendation" entity records insights into recommended places to visit, dine, or explore, while the "restaurant" entity captures the essence of dining establishments within the system. Both entities adapt dynamically to user interactions, reflecting the ever-evolving nature of recommendations and restaurant listings.

Finally, the "event-listing" entity complements the "organization" entity, encapsulating details about various events hosted or endorsed by organizations.

The relationships within the ER Diagram delineate the intricate connections and de-

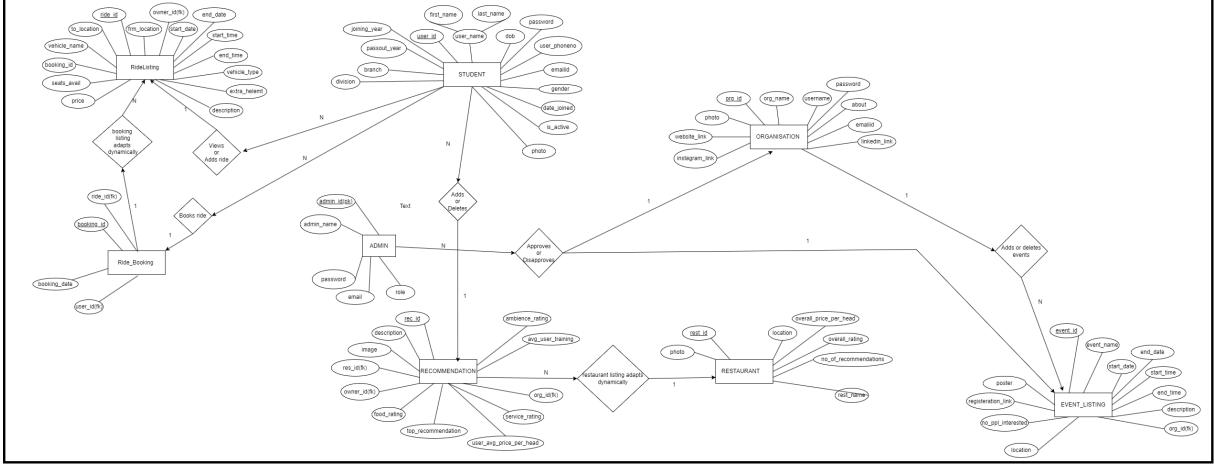


Figure 5.5: ER Diagram

pendencies across entities. Key associations include the linkage between ride listings and bookings, students and their interactions with the system, organizations orchestrating events, and the dynamic nature of recommendations and restaurant listings. These relationships establish a structured framework, ensuring the efficient functioning of CamBuzz by managing ride-related information, user interactions, organizational events, and dynamic recommendations and restaurant details.

5.3 Sequence Diagram

The CamBuzz sequence diagram unfolds the dynamic interactions among its key actors—Students, Organizations, and Admins—each depicted as lifelines representing distinct stages in the system’s workflow. The journey commences with users making inquiries, akin to exploring room availability in a hotel reservation system. Following this, the users proceed to register or sign up, creating an account within the system.

Once registered, the login process marks the initiation of the user’s interaction with CamBuzz. The subsequent stages involve dynamic interactions such as exploring and booking rides, discovering food spot recommendations, participating in the event hub, and managing organizational details. For Admins, the diagram showcases their vital role in handling user registrations, managing rides, and overseeing events.

The sequence diagram for CamBuzz mirrors a fluid and engaging user experience, akin to a hotel reservation system. It captures the dynamic flow of requests and responses, empowering users to seamlessly navigate through the system’s features. Admins, akin to

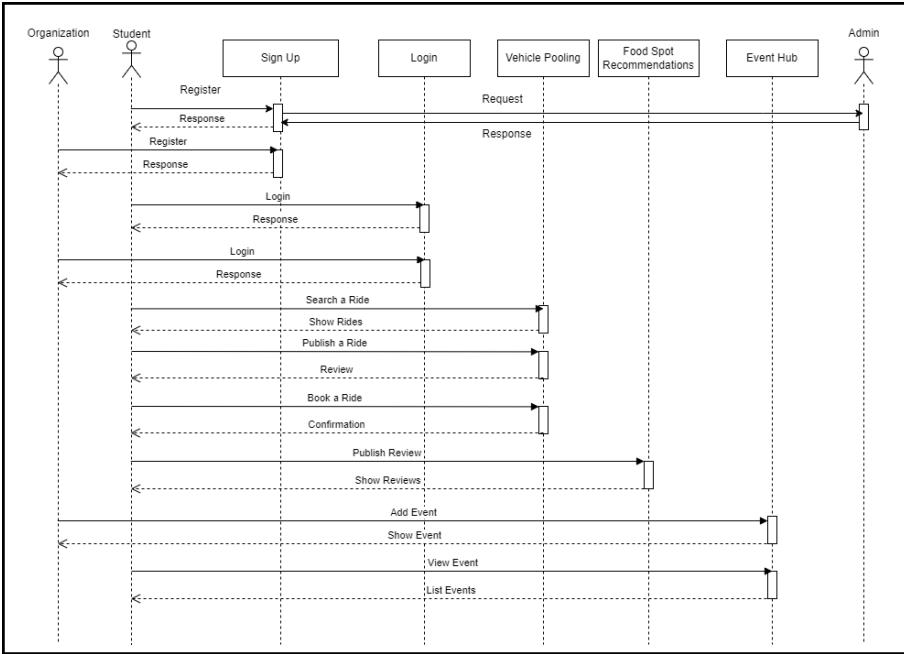


Figure 5.6: Sequence Diagram

their counterparts in the hotel system, have a comprehensive view and control over the system's details, ensuring real-time updates for an accurate and efficient platform.

5.4 Class Diagram

The CamBuzz Class Diagram intricately maps out the key entities and relationships that orchestrate the functionality of our student lifestyle management platform. At the nucleus of this representation is the Admin class, overseeing system operations, while the foundational User class branches into subclasses like Registered Student and Organization, tailoring experiences for distinct user types.

Within the diagram, essential feature-centric classes include Ride Listing, Recommendation, Event Listing, and Restaurant, each contributing to the diverse facets of student life. These classes bring ride-sharing capabilities, food spot recommendations, event discovery, and local dining options to the fingertips of users.

The interconnections depicted in the diagram underscore the cohesive nature of CamBuzz. Inheritance establishes a hierarchy, outlining relationships between the User, Registered Student, and Organization classes. Association threads through Registered Students and various features, exemplifying user engagement across different dimensions of the platform.

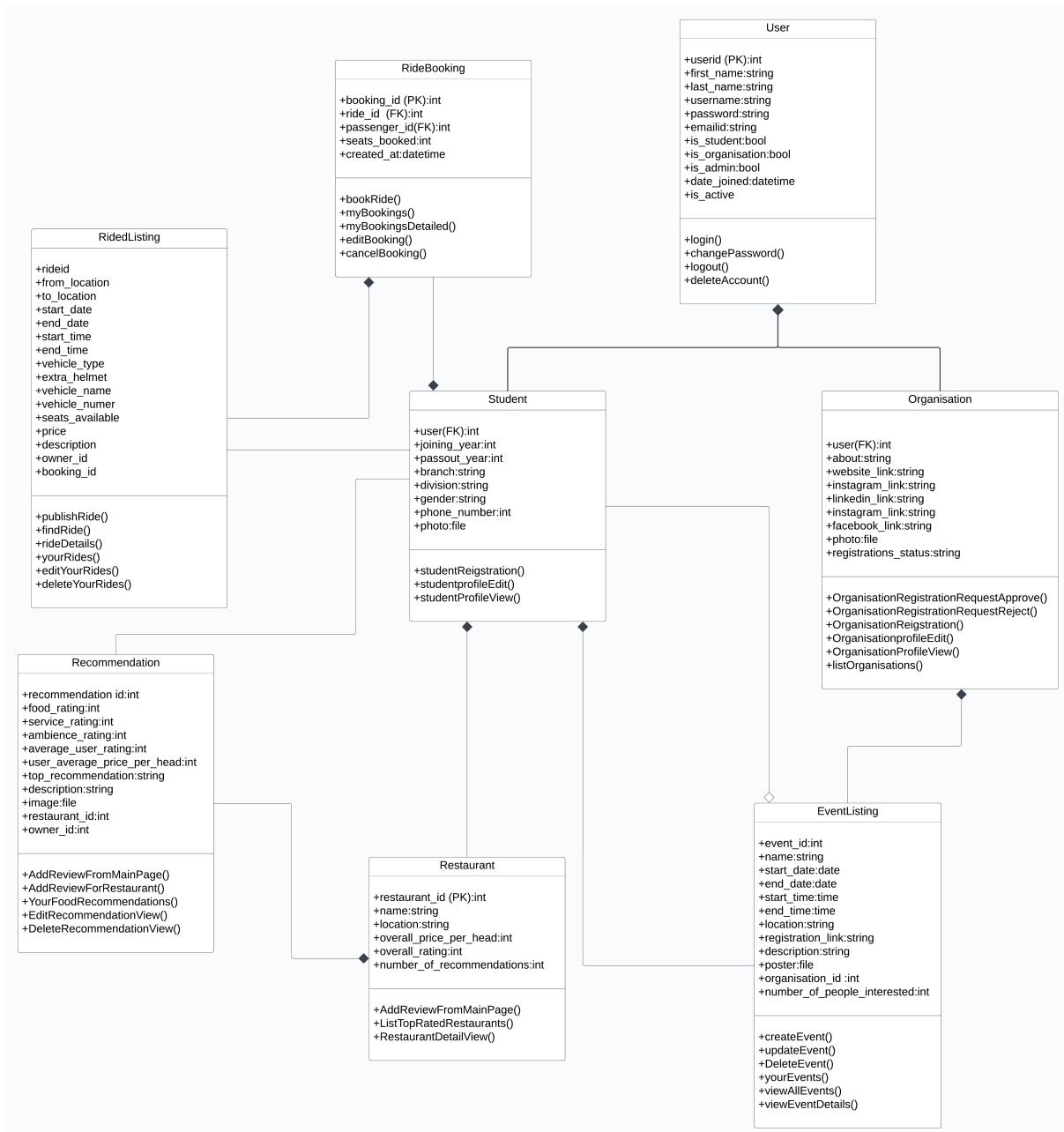


Figure 5.7: Class Diagram

The Composition relationship shines a spotlight on the integrated nature of Ride Listing, Recommendation, and Event Listing. This composition underscores the interconnectedness of functionalities, forming the backbone of the CamBuzz architecture.

In summation, the CamBuzz Class Diagram serves as a visual roadmap for the intricate interplay of classes, forging a platform where user-centric features seamlessly converge to define a holistic student lifestyle management experience.

5.5 Use Case Diagram

The Use Case Diagram for Cambuzz illustrates the key actors and their interactions within the system. The primary actors are Users (combining both Students and Organizations) and Admin. Both actors engage in common functionalities such as Login and Logout, establishing a shared foundation for their interactions.

For Users, a diverse range of use cases captures their journey within Cambuzz. Starting with "Login" and "Student/Organization Registration," users can manage their account through "Change Password," "Delete Account," and "Logout" functionalities. The system empowers users to actively participate in ride-related activities such as "List a Ride," "Verify Ride," "Delete Ride," "Edit Ride," and "View Ride."

Additionally, Cambuzz enhances user engagement by providing features related to food recommendations. Users can "List, Verify, and Delete Food Recommendation" and "View Recommendations." The platform also facilitates event management, allowing users to "Add, Edit, Verify, Delete, and View Published Events," "View Your Events," and "Register for Events."

For Admin, the use cases are tailored to their role within the system. Admins can perform tasks related to data management, such as "Create, Delete Update All Data." They can also oversee ride-related activities like "Verify Ride" and "Delete Ride." Furthermore, Admins have the authority to manage food recommendations and events.

In conclusion, the Use Case Diagram for Cambuzz showcases a comprehensive set of functionalities catering to both Users and Admin. The system enables seamless user interactions and efficient administrative control, fostering a dynamic and engaging platform for ride-sharing, food recommendations, and event management.



Figure 5.8: Use Case Diagram

Chapter 6

Results and Discussions

This chapter offers a visual overview and analysis of CamBuzz web application. Through screenshots and brief descriptions, this section provides insights into the system's interface, functionalities, and overall output, showcasing the successful implementation of project objectives and highlighting key features for discussion.

This chapter presents an insightful visual tour of the CamBuzz web application, providing a concise yet comprehensive look at its user interface, functionalities, and outcomes. The journey begins with the homepage, where the CamBuzz logo invites users to explore the student-centric possibilities through an intuitive navigation bar guiding them to login and sign-up gateways.

Through carefully chosen screenshots, the pivotal features of CamBuzz are highlighted. The Vehicle Pooling section showcases ride search, publication, and booking options, while the Food Spot Recommendations and Event Hub add social and extracurricular dimensions to the student experience.

This visual exploration is not just an aesthetic journey; it's a discussion on how CamBuzz effectively meets the day-to-day needs of students. The chapter also touches upon the integration of cutting-edge technologies and a collaborative design approach that positions CamBuzz as a valuable addition to the student lifestyle landscape. Join us as we dissect the CamBuzz interface, functionalities, and the strategic decisions that make it a student-friendly innovation.

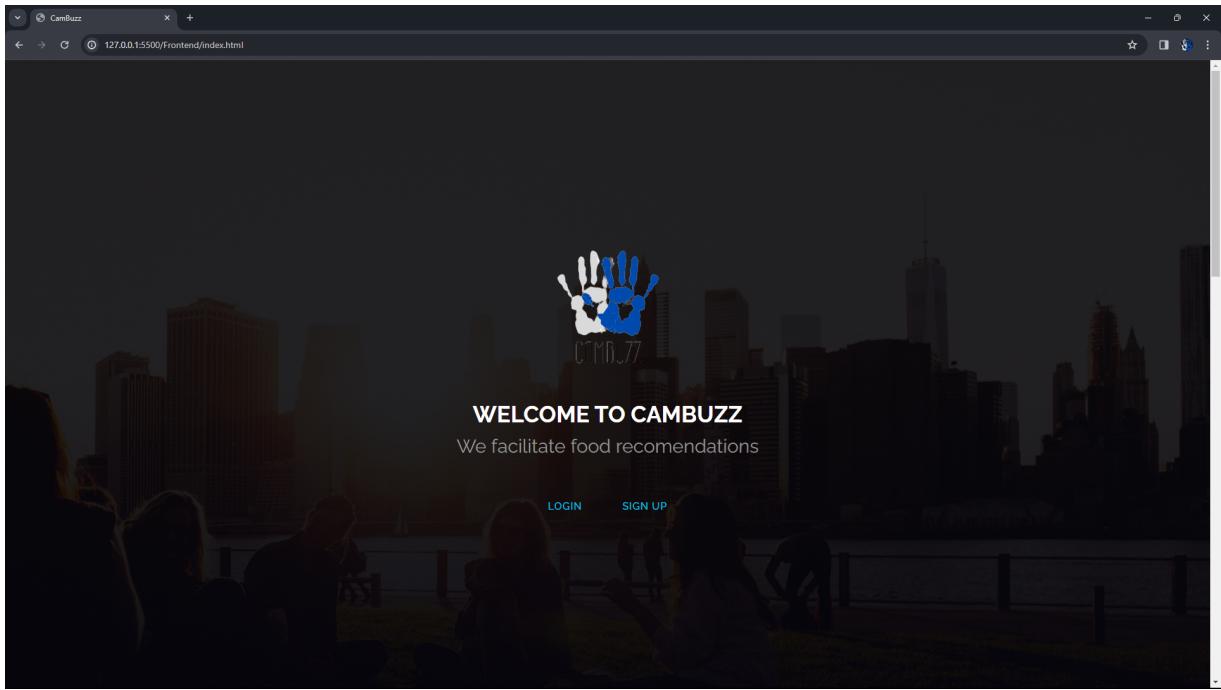


Figure 6.1: Home Page

This figure shows the home page of the cambuzz web application , there are two options available which are login and sign up which leads to the corresponding pages.

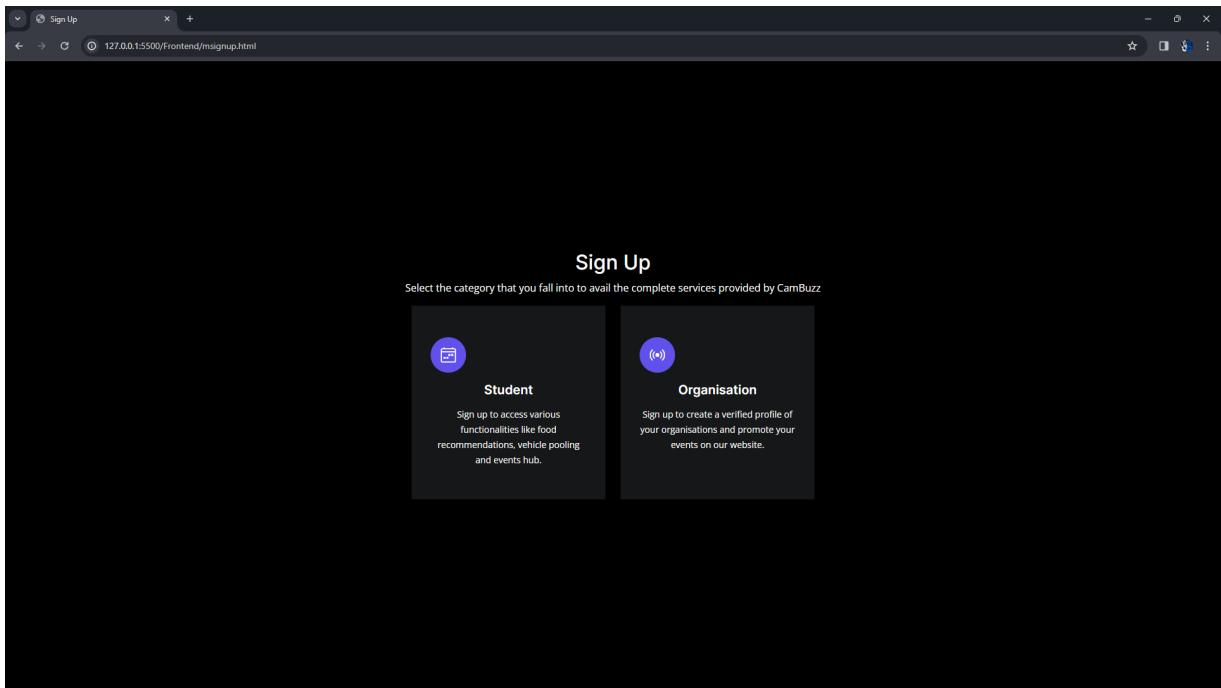


Figure 6.2: Sign-up Page

When the sign up option is clicked there are two ways to sign in that are for the students and the organization.

Sign Up as a Student

Please fill in with the required information

Enter Your First Name:

Enter Your Last Name:

Enter Your Email:

Enter Your Username:

Create a New Password:

Enter Your Phone Number:

Gender: (Select one)

Joining Year: (Select one)

Branch: (Select one)

Division: (Select one)

Upload a profile picture: Choose File No file chosen

Already have an account? [Login](#)

Figure 6.3

The sign up for the student accepts the sufficient details for the web application and there is an option to submit the entered details.

Sign Up as an Organisation

Please fill in with the required information

Enter the Name of your Organisation:

Enter your Email:

Enter your Username:

Create a Password:

Enter the link to your Instagram Profile:

Enter the link to your LinkedIn Profile:

Enter the link to your Facebook Profile:

Enter the link to your Website:

Provide a description for your Organisation:
About the Organisation

Upload a profile picture: Choose File No file chosen

Already have an account? [Login](#)

Figure 6.4

The sign up for the organization is very much similar to the sign up for the student.

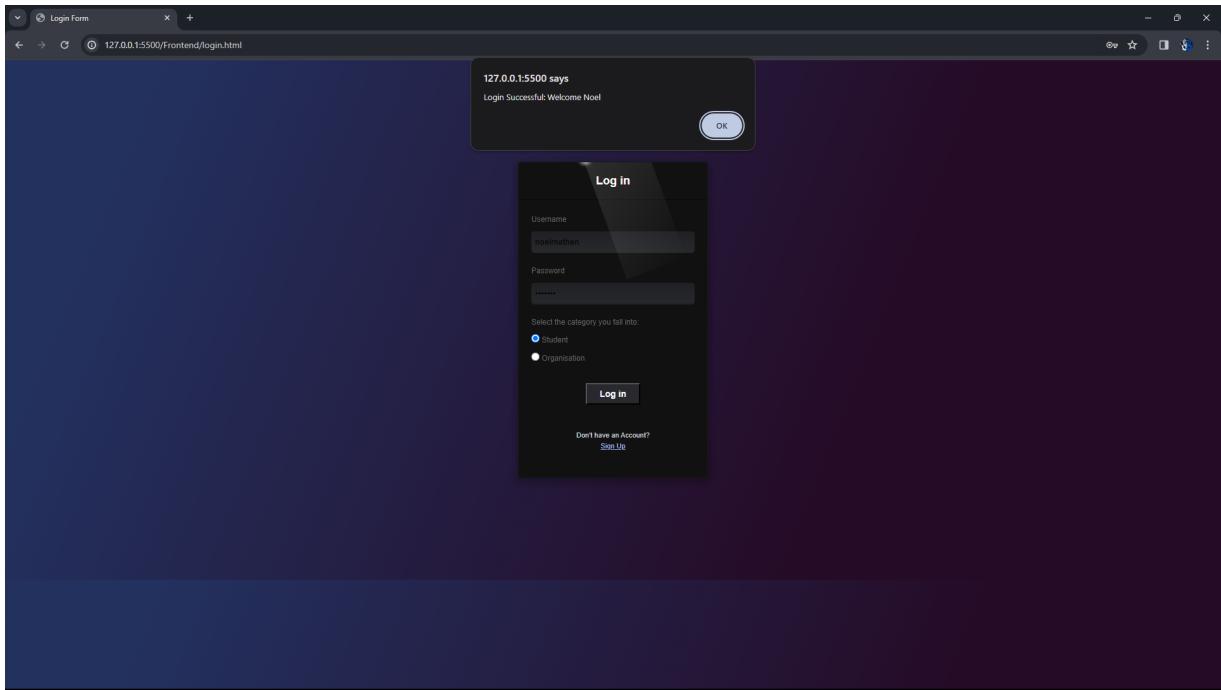


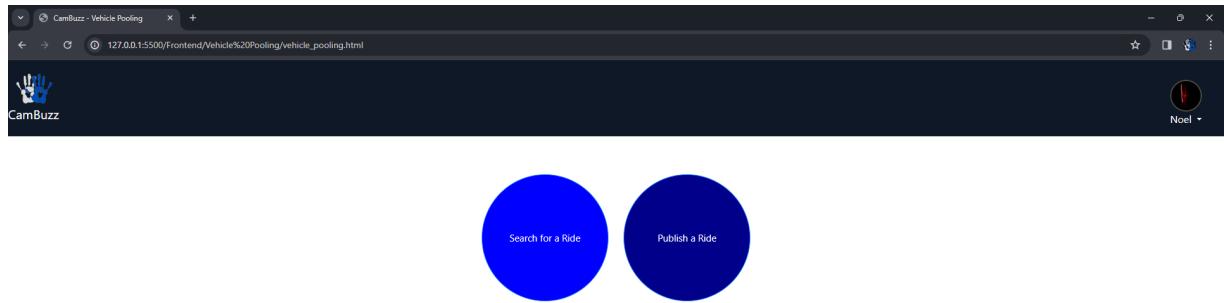
Figure 6.5: Log-in Page

The login page accepts the username and the password from the user, and there is also an option to tick whether the student or the organization is logging in. You can also jump into the sign up page from the login page in case you don't have an account.



Figure 6.6

After logging in as a student, this page opens up and features a navigation bar where there is a Cambuzz logo which, when clicked, returns to the page where the functionalities are listed. Also in the navigation bar, there is a profile icon.



Student vehicle pooling provides a cost-effective and eco-friendly solution, enabling easy ride-sharing for daily commutes or special events. With customizable fares, the system ensures fair cost-sharing, fostering a community-driven approach to transportation. Whether heading to campus or events, this feature streamlines student travel, optimizing resources and reducing expenses while promoting a sustainable and efficient transportation network.

Figure 6.7

This page shows the functionalities which are displayed after clicking the vehicle pooling page, the functions listed are “search a ride” and “publish a ride”.

The screenshot shows a search results page for vehicle pooling. The title is 'Search Rides' and the URL is '127.0.0.1:5500/Frontend/Vehicle%20Pooling/search_ride.html'. It features a search form with fields for 'Leaving From', 'Going To', 'Date dd-mm-yyyy', and a 'Search' button. Below the form is a grid of ride listings:

Leaving From	Going To	Date	Vehicle Type	Price	Passenger Count
9:00am Palakkadu	Jan 20, 2024	10:00am Kollam	Car	₹70.00	1
9:30am RSET	Jan 20, 2024	10:00am Vypin	Car	₹100.00	4
8:00am Aluva	Jan 21, 2024	9:30am Kolenchery	Car	₹50.00	4
8:00am Palakkadu	Jan 21, 2024	8:30am RSET	Scooty	₹55.00	1
5:30pm TVM	Jan 21, 2024	6:00pm Kozhikodu	Bike	₹100.00	1
9:00pm RSET	Jan 21, 2024	10:30pm Piravom	Car	₹150.00	2
7:30am Vypin	Jan 22, 2024	8:15am Kalamassery			
5:00pm TVM	Jan 22, 2024	7:00pm Kozhikodu			
8:00pm Edappilly	Jan 22, 2024	10:00pm Rajagiri Valley			

Figure 6.8

After clicking search a ride a page where parameters like “leaving from”, “going to” and “date” is present. This is in order to search for a ride for pooling. A list of available rides are listed with the necessary details like the time, price and the person who published and the number of seats available can be viewed, it also shows the vehicle type.

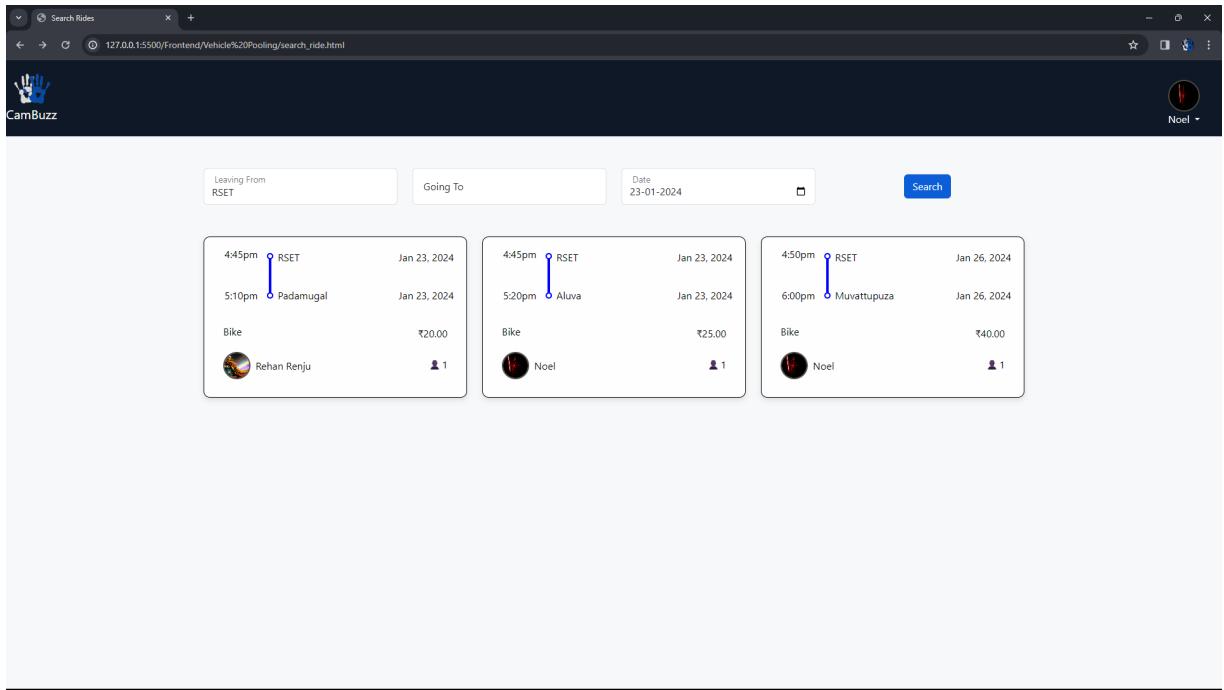


Figure 6.9

After entering the necessary parameters the rides which correspond to the parameters get listed.

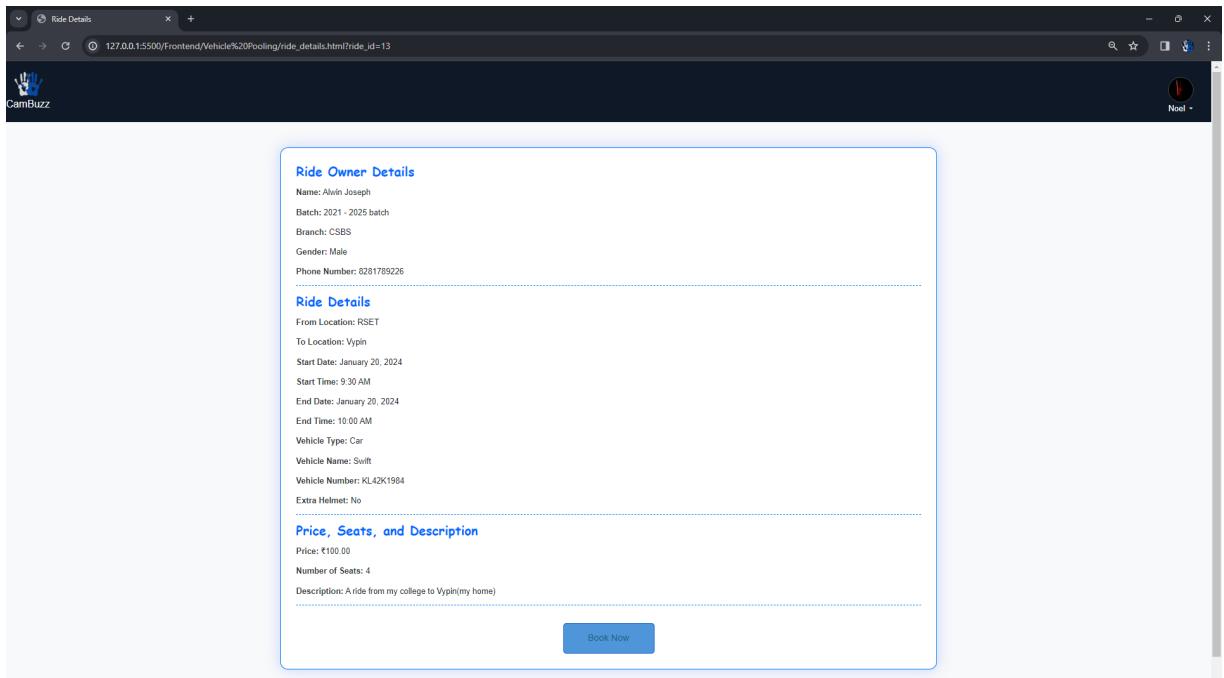


Figure 6.10

After clicking a ride which is listed, you can access a more detailed version of the published ride which shows the ride details , ride owner details and the price, seats, description. There is also an option for booking the ride prior for later use.

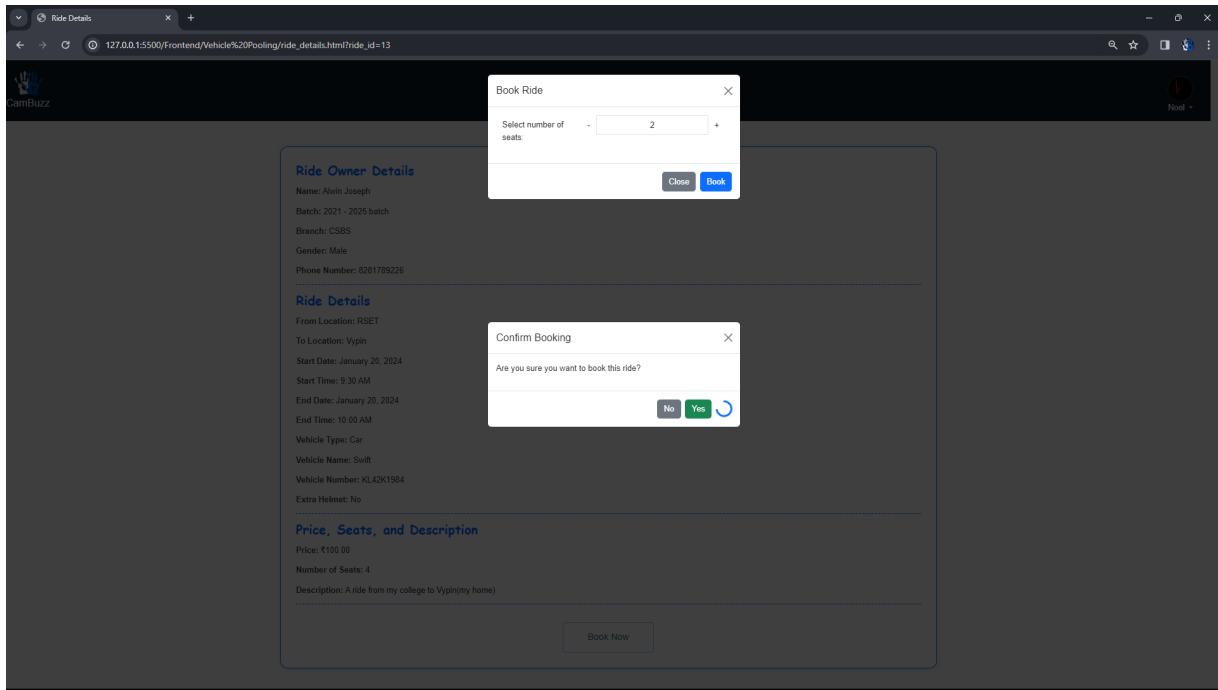


Figure 6.11

After clicking the book option a pop up showing how many seats to book will be displayed and you can choose the seats and confirm the booking.

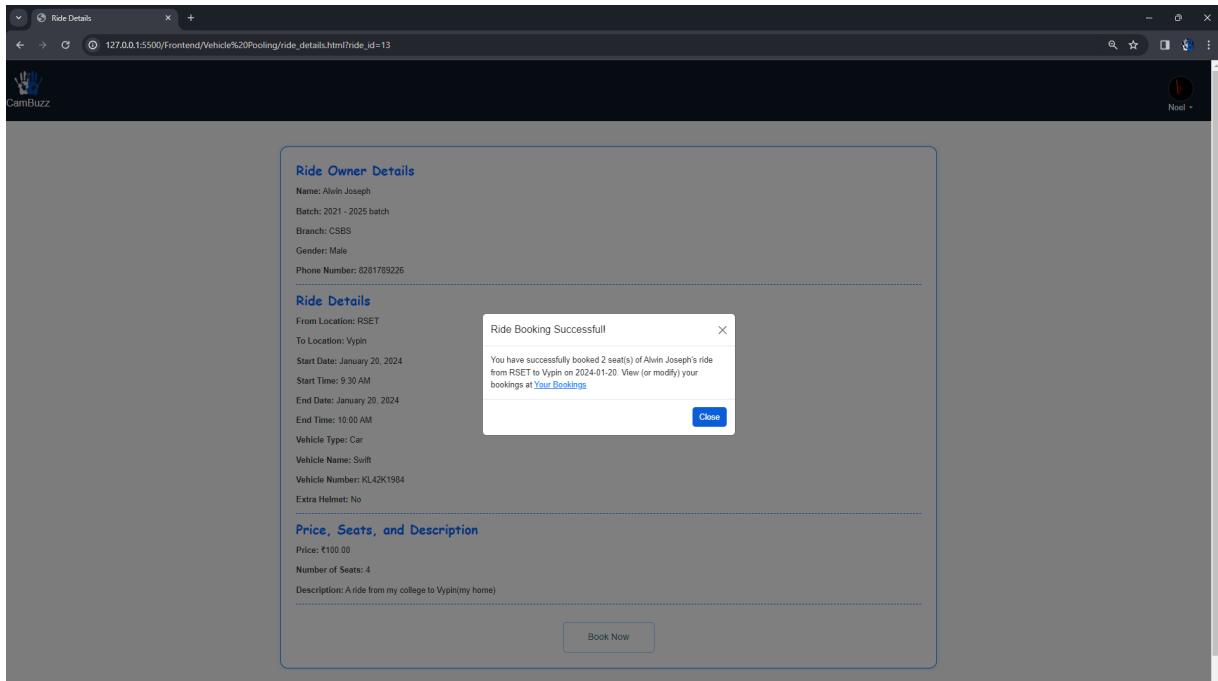


Figure 6.12

After the booking is successful a message will be shown on the screen.

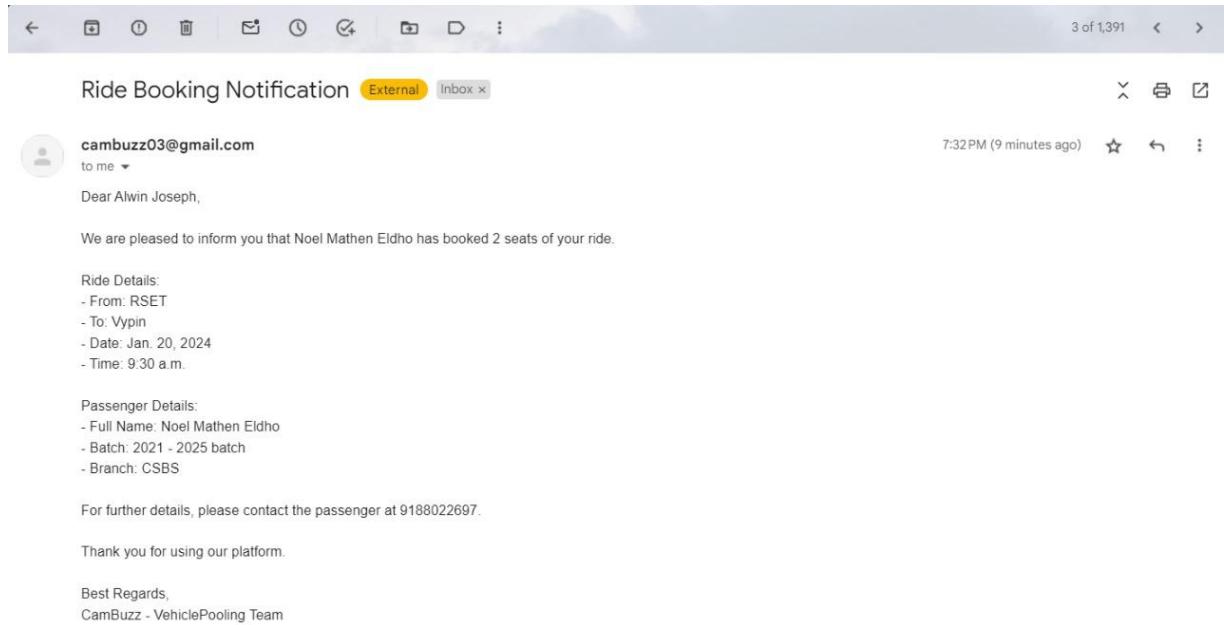


Figure 6.13

The booking confirmation will be sent to the person who published the ride with the details of the person who has booked the ride.

The screenshot shows the "My Ride Bookings" section of the CamBuzz web application. It displays three recent bookings:

Booking ID	From	To	Date	Time	Passenger Name	Passenger Count
1	Palakkadu	Kollam	January 20, 2024	09:00:00	Paul Dins	1
2	RSET	Vypin	January 20, 2024	09:30:00	Alwin Joseph	2
3	RSET	Piravom	January 21, 2024	21:00:00	Dea Elizabeth Jacob	2

Figure 6.14

This shows the bookings which have been made by the student profile and the ride which was booked recently gets listed there.

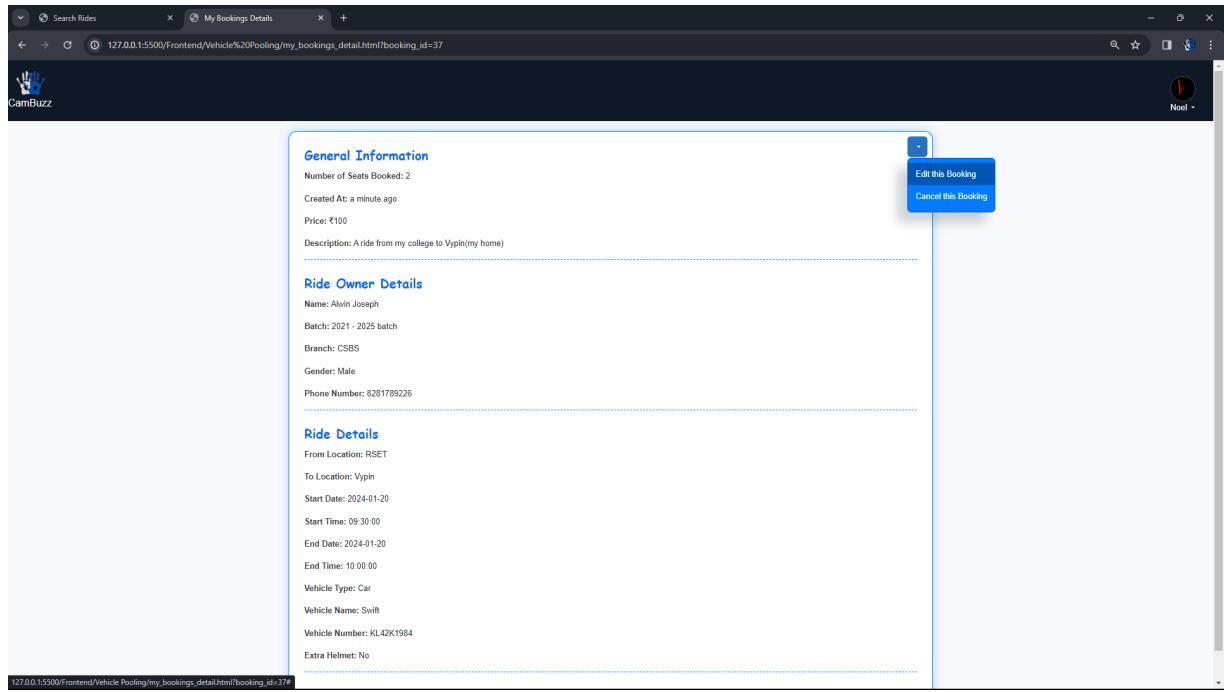


Figure 6.15

After clicking the rides listed in the booking in the student profile, there are two options to either delete or edit the bookings. This also shows the general information about the bookings.

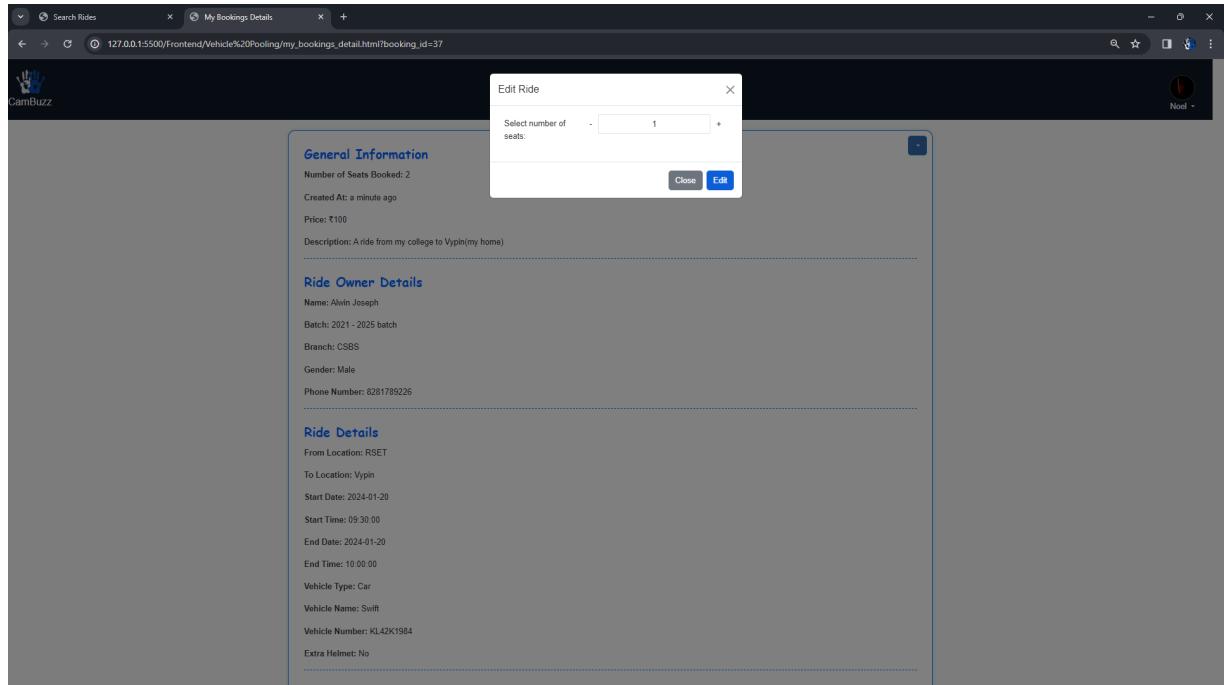


Figure 6.16

The edit ride option lets you change the number of seats in that particular booking and edit the current seats.

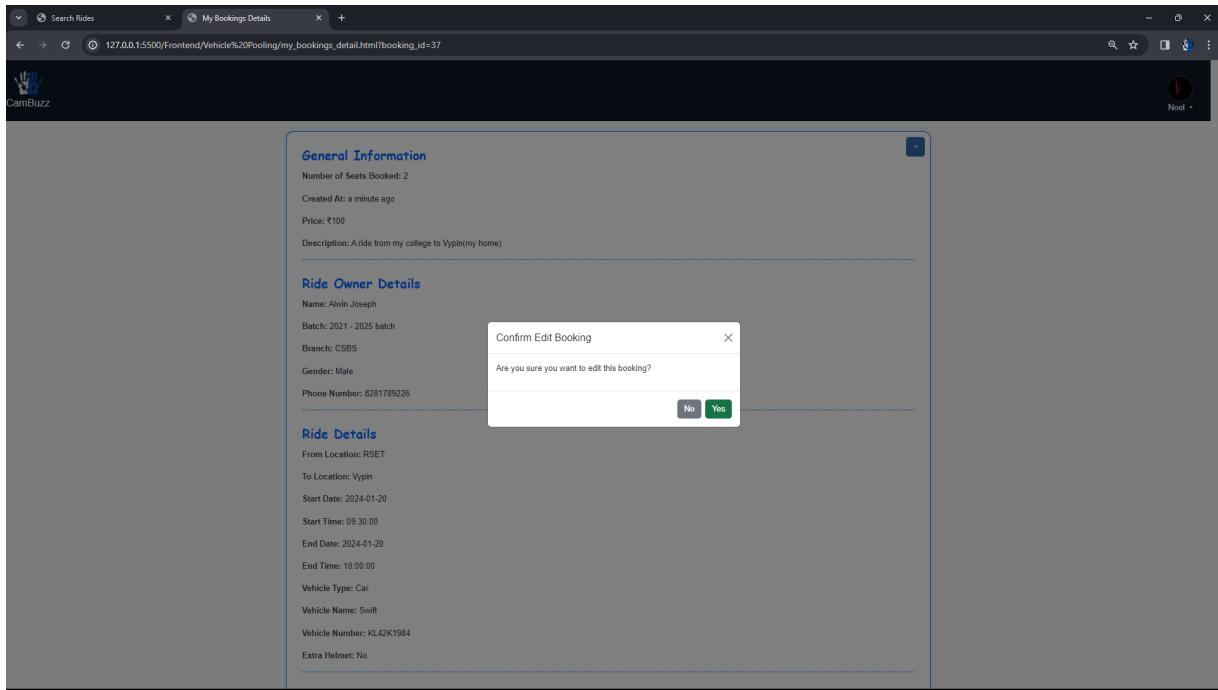


Figure 6.17

A confirmation message regarding the change that was made will be shown in order to confirm.

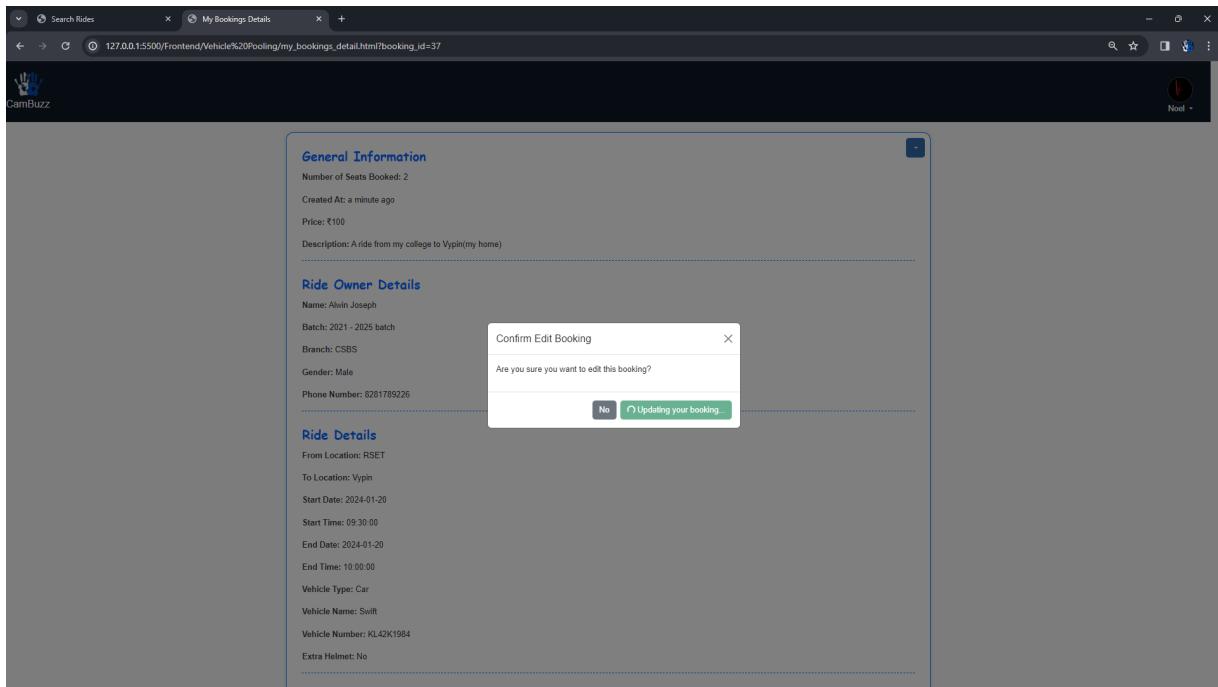


Figure 6.18

After clicking confirm the button shows updating your booking

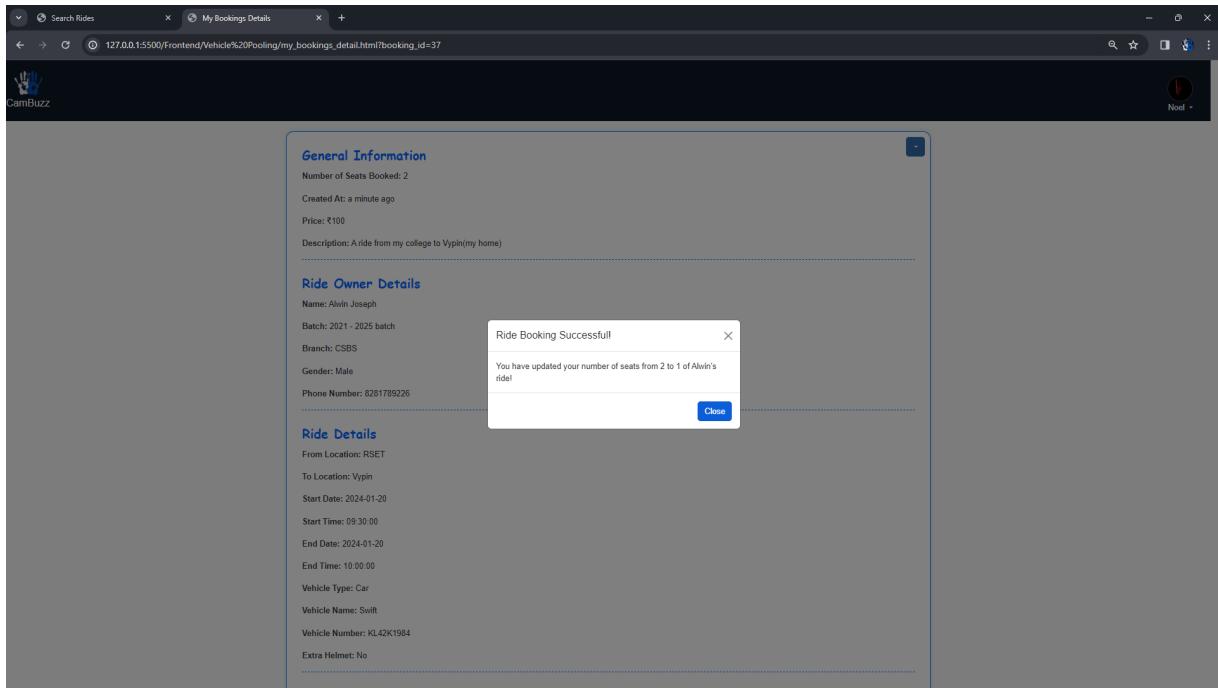


Figure 6.19

A pop up saying that the update was successful will be displayed on the screen.

Seat Update for Your Ride External Inbox ×

 cambuzz03@gmail.com
to me ▾

7:34PM (8 minutes ago) ☆ ↵ ⋮

Dear Alwin Joseph,

We would like to inform you that the Passenger Noel Mathen Eldho has updated their booking for the ride.

Ride Details: RSET to Vypin on 2024-01-20 at 09:30:00
 Old Number of Seats: 2
 New Number of Seats: 1

Thank you for using our ride-sharing platform.

Best regards,
 Your Ride-Sharing Platform

⤠ Reply ⤡ Forward

Figure 6.20

An email regarding the update will be sent to the rider.

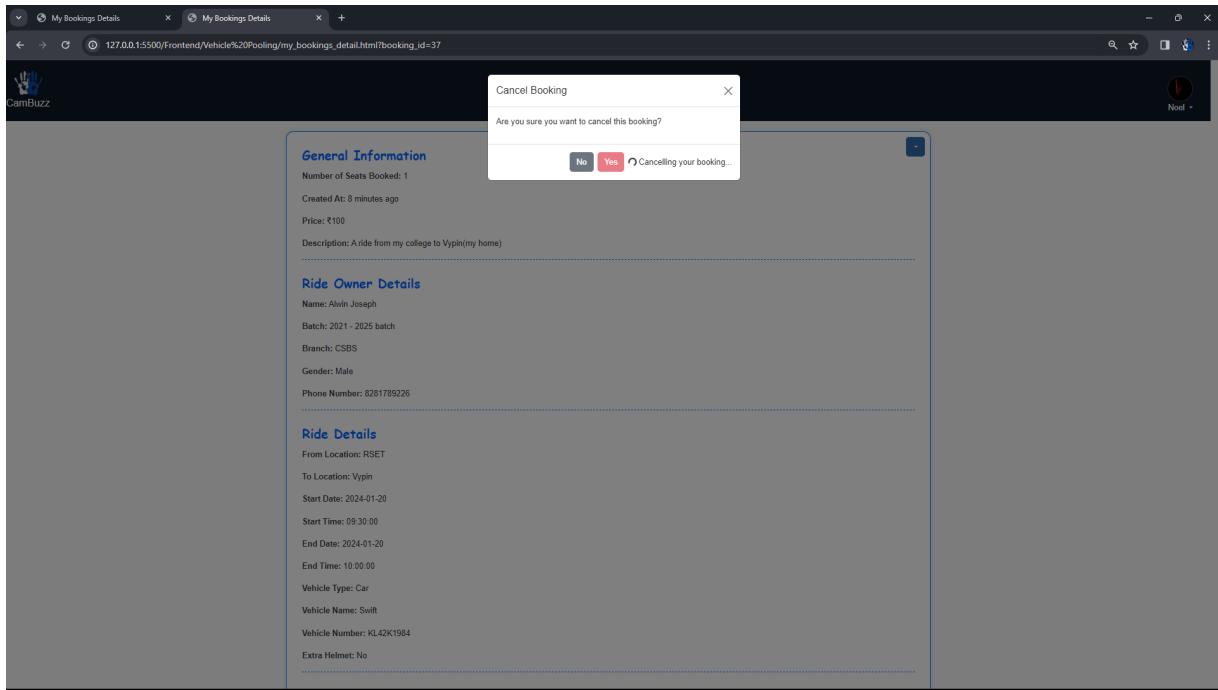


Figure 6.21

Regarding the cancel option when clicking the option it shows a pop up message saying :are you sure you want to cancel?", if clicked yes the ride will be canceled.

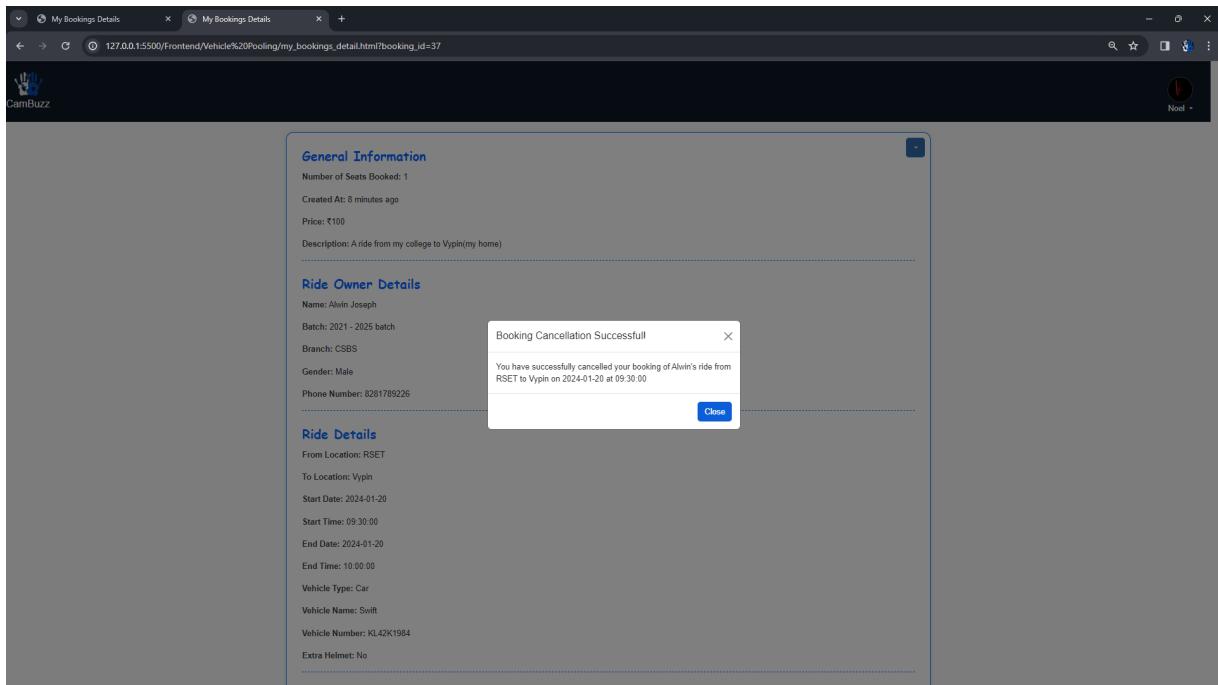


Figure 6.22

A pop up message regarding the cancellation will be displayed on the screen with the details of the ride that was canceled.

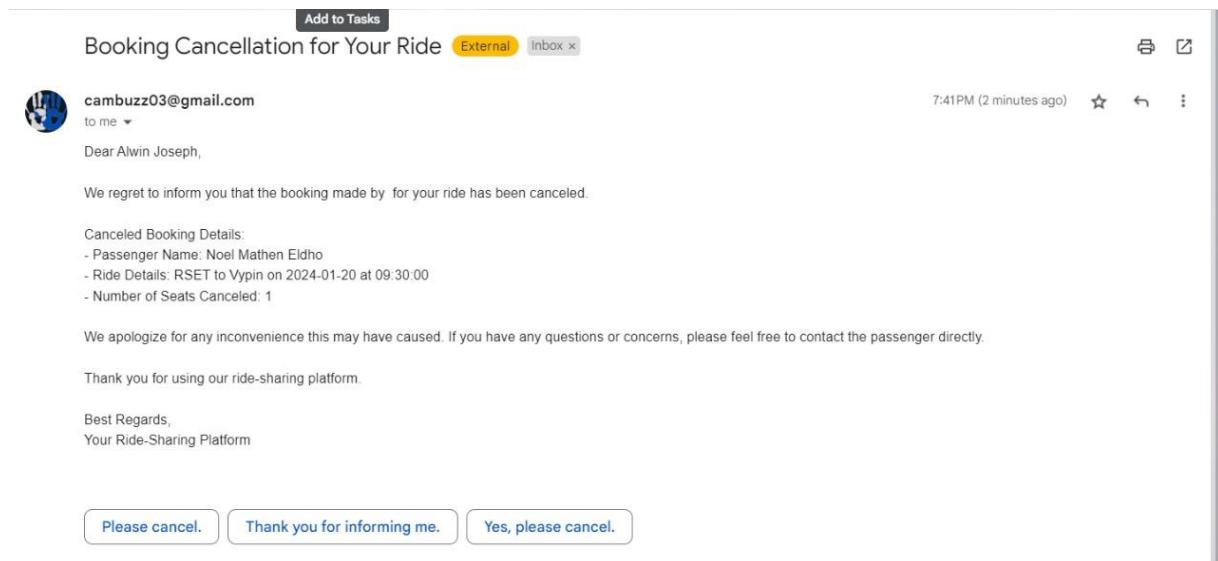
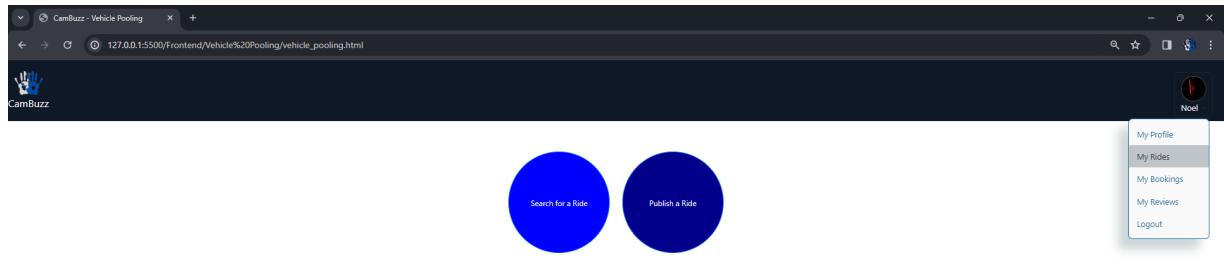


Figure 6.23
An email regarding the cancellation will be sent to the rider.

The screenshot shows a web-based application for publishing a ride. The form fields include: From Location (RSET), To Location (Fort Kochi), Start Date (29-01-2024), End Date (29-01-2024), Start Time (16:30), End Time (18:00), Vehicle Type (Bike), Do you have an extra helmet? (Yes), Vehicle Name (FZ-X), Vehicle Number (KLAD10214), Number of Seats (1), Price (60), and Description (A ride from college to fort kochi). A success message 'You have published this ride successfully!' is displayed in a modal window. A blue 'PUBLISH' button is located at the bottom right of the form.

Figure 6.24
This is the publish a ride screen where the details which are required for publishing a ride are to be entered and then at the last there is a button to publish the ride.



Student vehicle pooling provides a cost-effective and eco-friendly solution, enabling easy ride-sharing for daily commutes or special events. With customizable fares, the system ensures fair cost-sharing, fostering a community-driven approach to transportation. Whether heading to campus or events, this feature streamlines student travel, optimizing resources and reducing expenses while promoting a sustainable and efficient transportation network.

127.0.0.1:5500/Frontend/Vehicle%20Pooling/my_rides.html

Figure 6.25

There is a drop down in the profile picture icon where there are multiple actions like “My profile”, “My rides”, “My bookings”, “My reviews” and logout which all lead to different pages.

Vehicle Type	Extra Helmet	Vehicle Number	Vehicle Name	Seats Available	Price	Description
Bike	false	KL41D9815	Twister	1	25.00	Ride from college to home(Aluva)
Car	false	KL41N4337	Dzire	3	50.00	Ride to panampilly nagar. One way.
Bike	true	KL40C7894	Unicorn	1	40.00	Going to my friends house. Join me for a good ride
Bike	true	KL41D3214	FZ-X	1	60.00	A ride from college to fort kochi!

Figure 6.26

After clicking my rides it lists out the rides which have been published by the student profile. There are options like edit and delete the published ride.

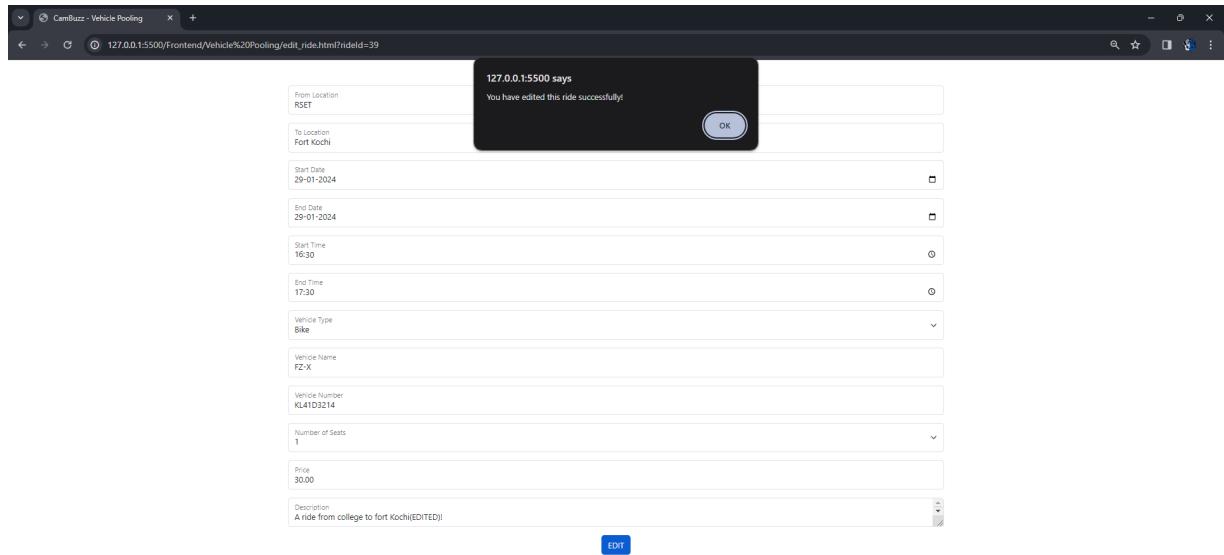


Figure 6.27

After clicking the edit option it leads you to a page where you can edit the details of the ride and publish it again after publishing it a message will pop up saying “You have edited this ride successfully”.

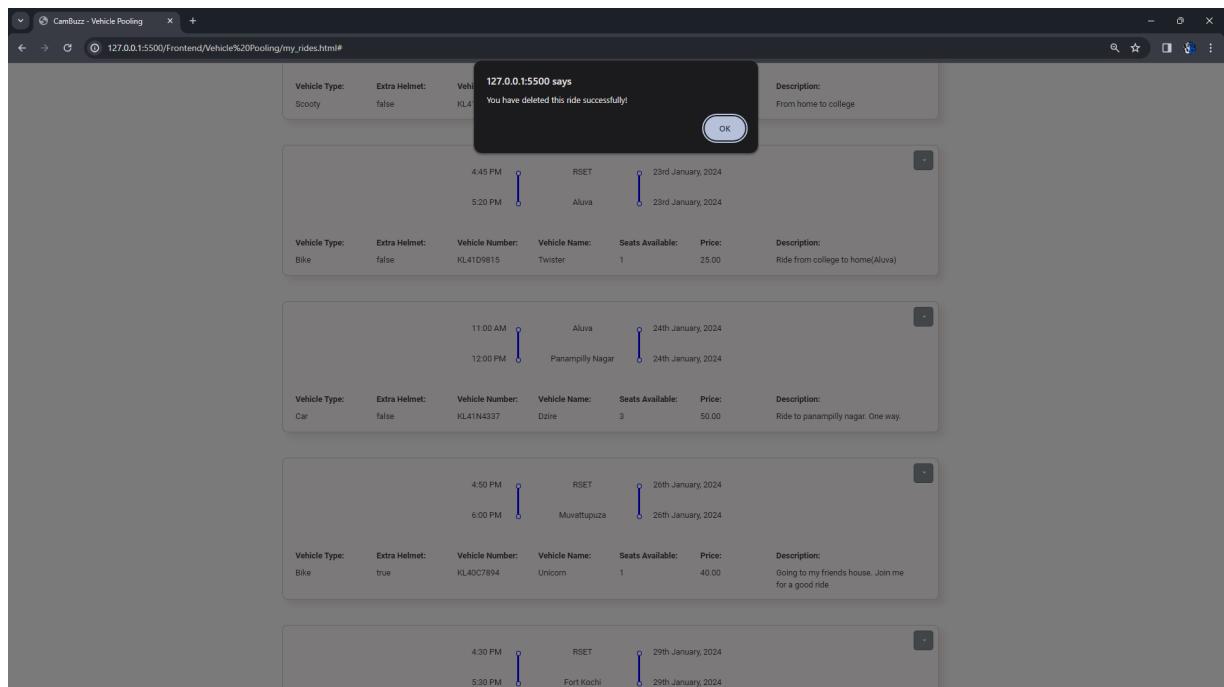


Figure 6.28

After clicking the delete option the ride which was published will be deleted and a message will pop up informing you that the ride was deleted.

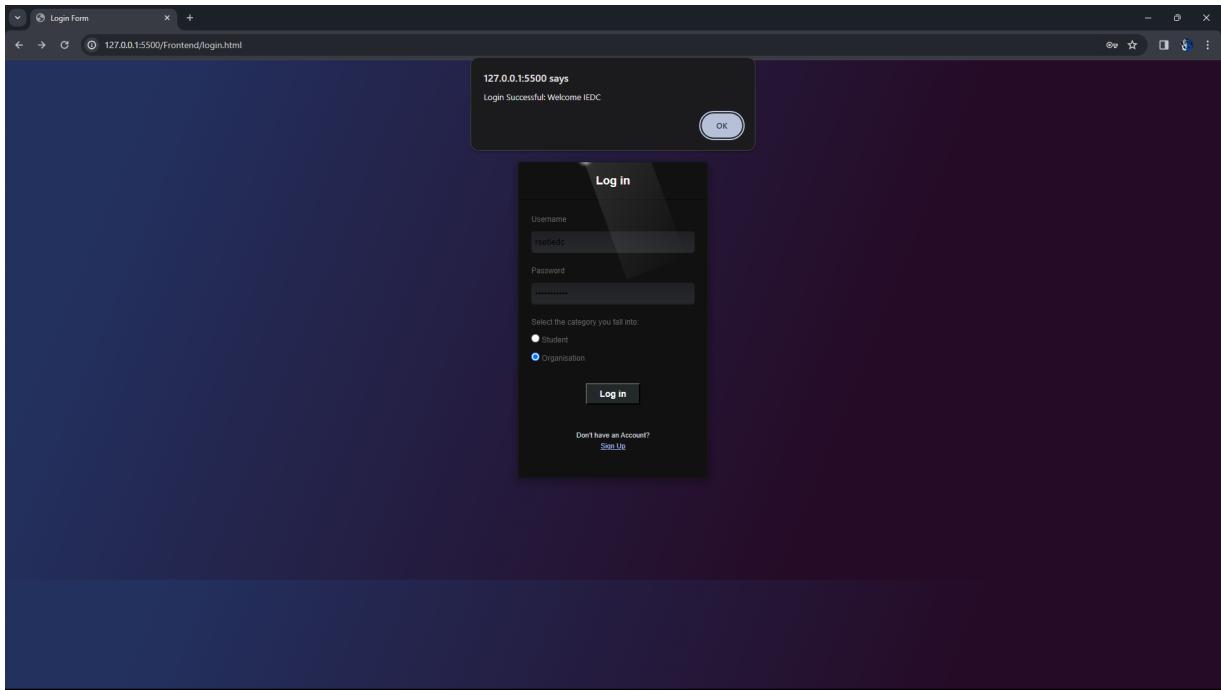


Figure 6.29
Figure shows the login of an approved organization named IEDC.

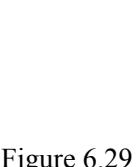
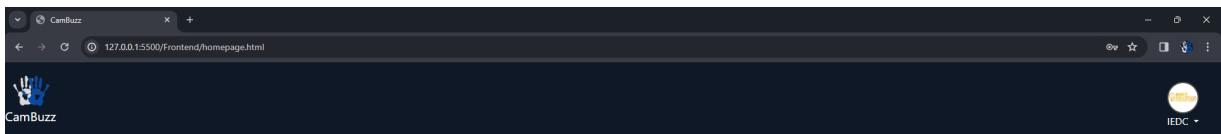


Figure 6.29

Fig 2 shows the main page for organization. In this, unlike for students, only the eventhub option is shown, as organizations can only participate in event hub functionality.

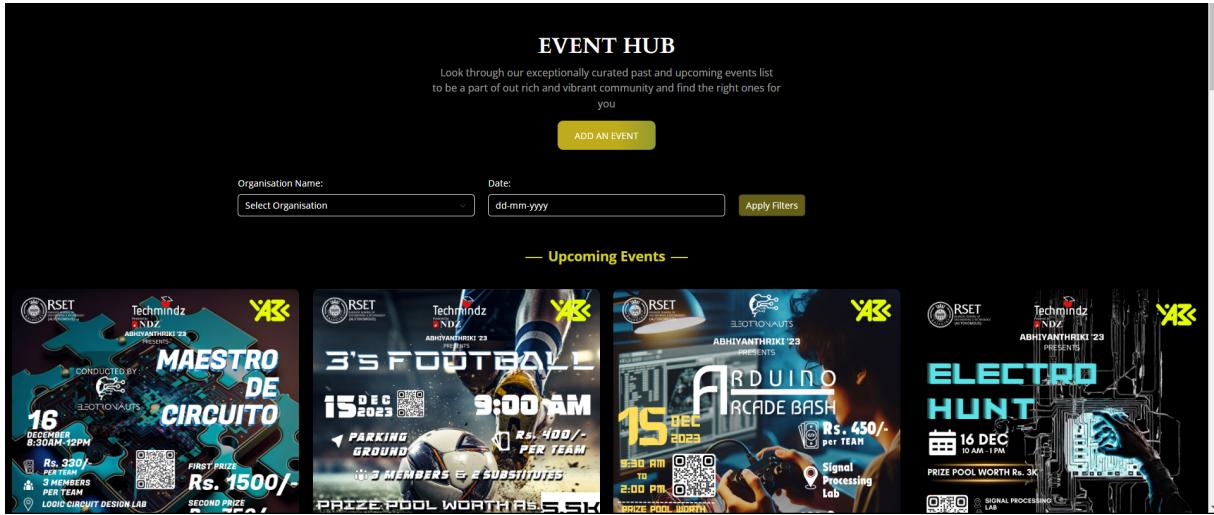


Figure 6.30

It depicts the main page of the event hub for the organization. It lists all the events added by all organizations as upcoming and past events. Users can filter it according to organization name or date of the event .

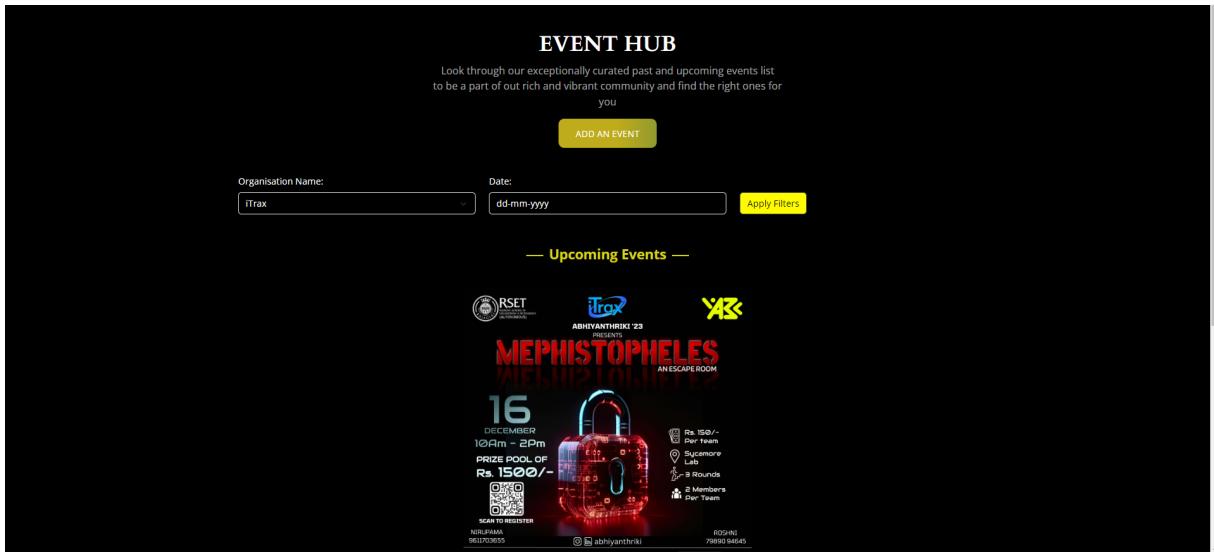


Figure 6.31

This figure shows filtering of events based on name. In this, iTrax is selected as an organization.

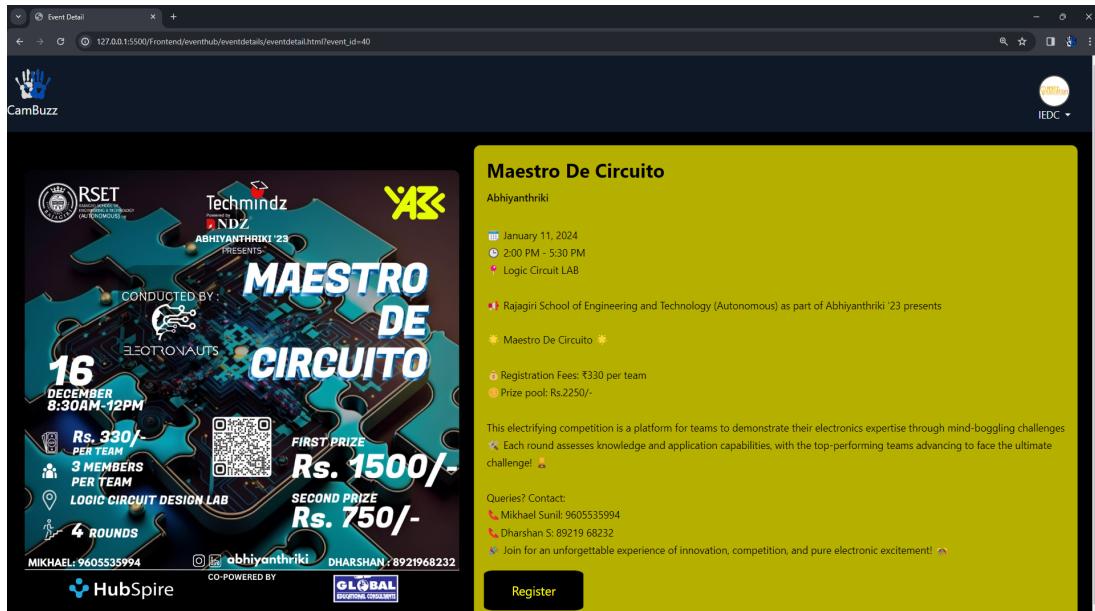


Figure 6.32

It shows a detailed view of an event when that particular event is selected from the event hub main page. It shows details added by the organization like dates, timings, venues etc. Users can directly register from this site using the register button.

The screenshot shows the YepDesk platform interface for the event "Maestro De Circuito". The top navigation bar includes links for Discover Events, How it works, Pricing, Login, and Get Started. The main content area features the event banner and the following details:

- Organized By:** Abhiyanthriki RSET
- Location:** Rajagiri School of Engineering & Technology, Rajagiri Valley Road, Rajagiri Valley, Kakkadan, Kerala, India
- Date and Time:** Sat, 16/Dec/2023 @ 8:30AM - Sat, 16/Dec/2023 @ 12:00PM
- Add to Calendar:** (link)
- Navigation:** Overview, Retrieve Tickets, Contact Us, Terms And Conditions
- Description:** Maestro De Circuito serves as the ultimate arena where teams showcase their electronics expertise through competitive challenges. These tasks assess their knowledge and application capabilities, with the top-performing teams advancing through rounds. The team that successfully completes the final challenge wins.
- Round 1:** Electronics Quiz

Figure 6.33

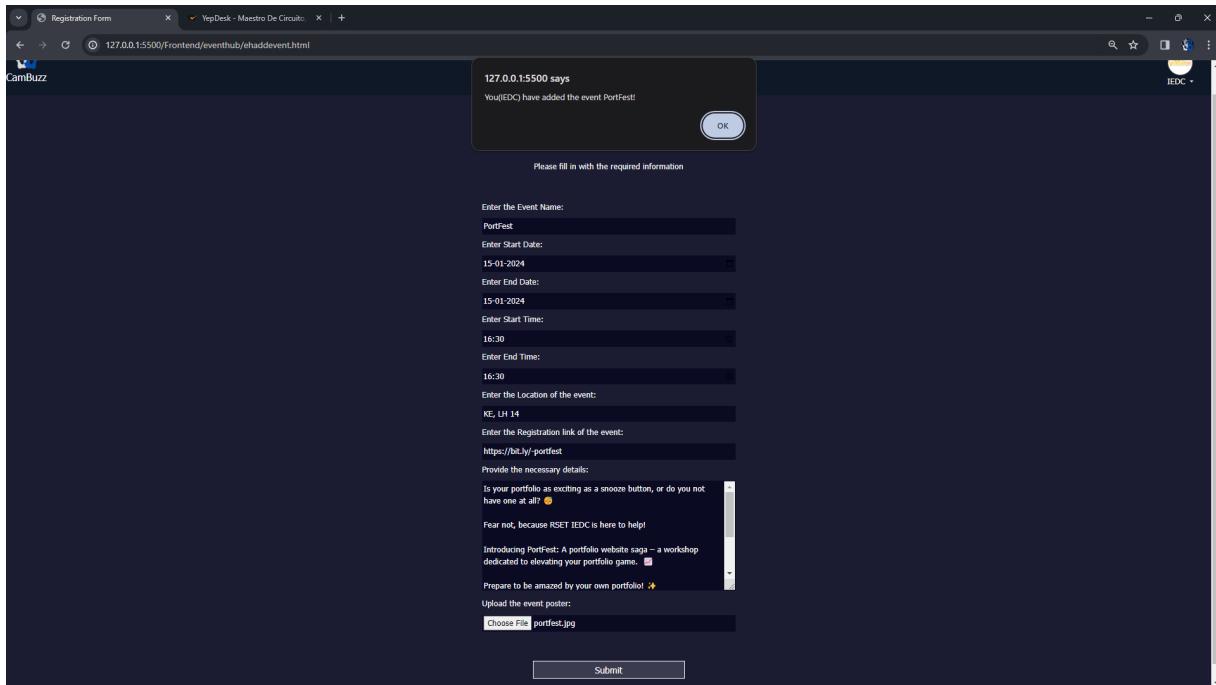


Figure 6.34

Fig 6 shows addition of an event by organization when the add event button is clicked.

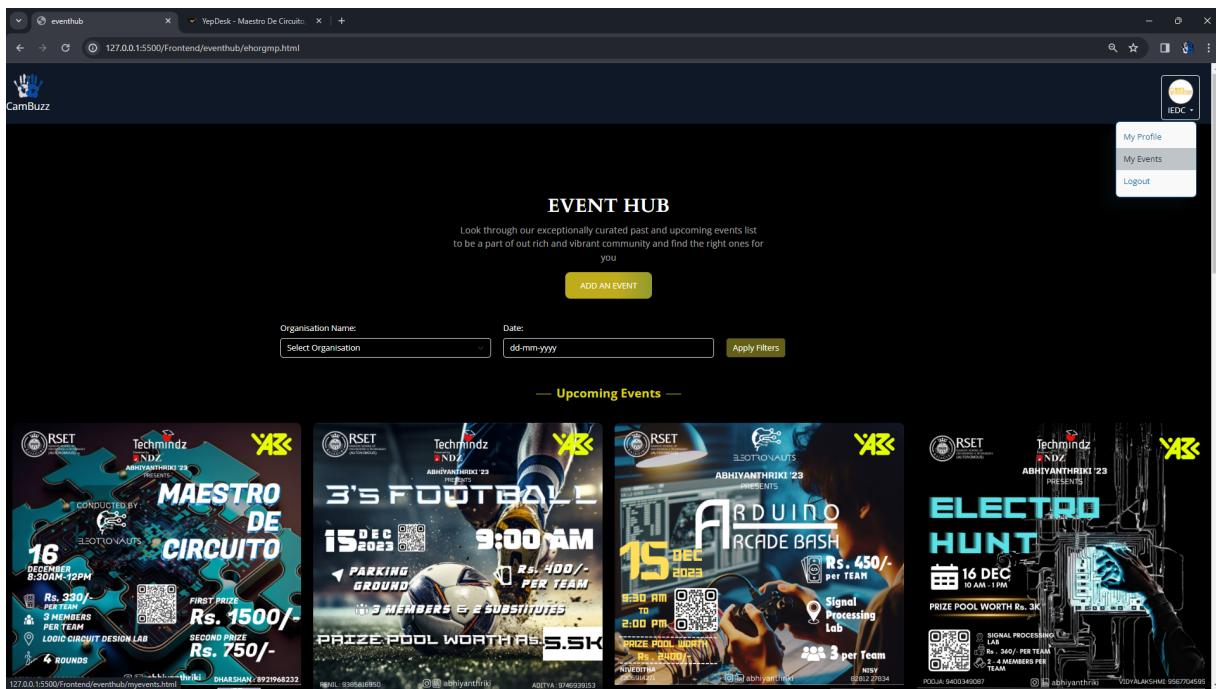


Figure 6.35

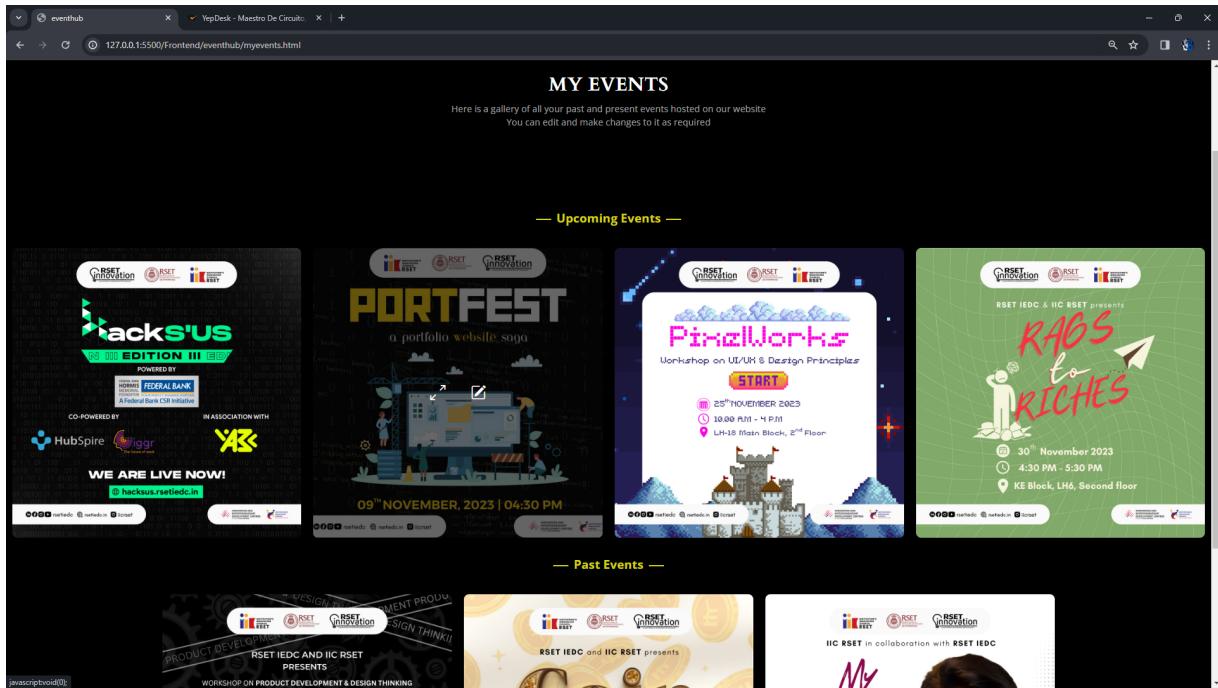


Figure 6.36 shows that the dropdown menu of the organization only has my events options, which when clicked is redirected to my events page. This page lists all the events uploaded by that particular organization.

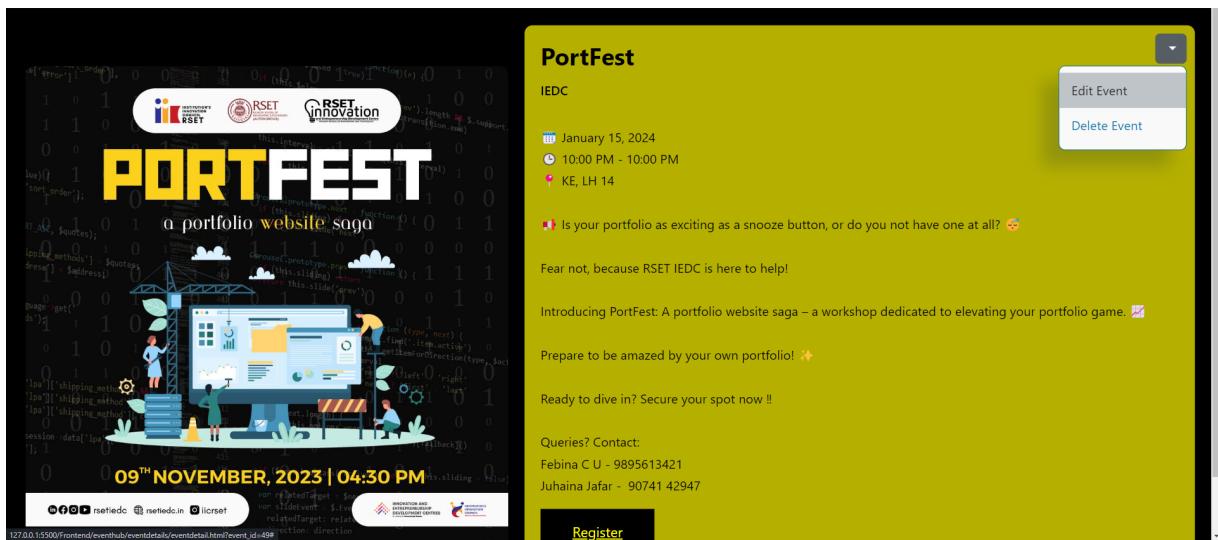


Figure 6.37

When clicked on the event uploaded by the current organization user, it renders the same event details page as earlier, but it shows an extra dropdown icon on the top right which enables the user to edit or delete that particular event. This is dynamically set.

Edit your Event

Please enter the information as required

Event Name: PortFest

Start Date: 15-01-2024

End Date: 15-01-2024

Start Time: 16:30

End Time: 16:30

Location of the event: KE, LH 14

Registration link of the event: <https://bit.ly/portfest>

Details of the Event:

I AM EDITING THIS EVENT!
Is your portfolio as exciting as a snooze button, or do you not

Event Poster:

Choose File No file chosen

Submit

Figure 6.38

Fig 10 shows editing an event. The fields are automatically populated by the current details of that event, which the organization can edit

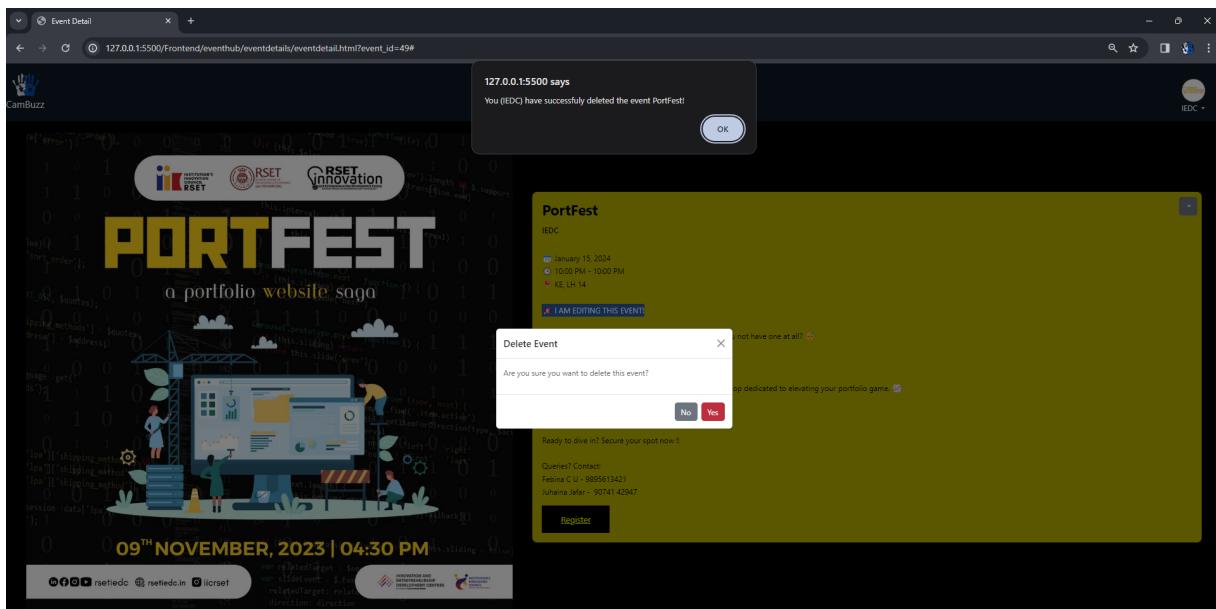


Figure 6.39

Figure shows deletion of event.

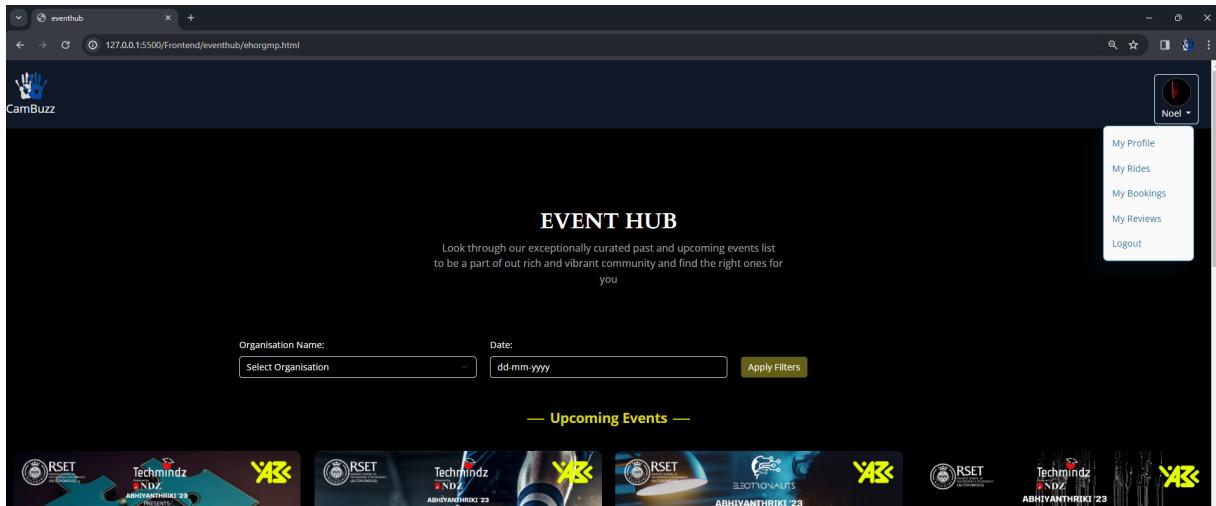


Figure 6.40

Figure shows the event hub page for student users. There is no add event button, as students can only view and register events.

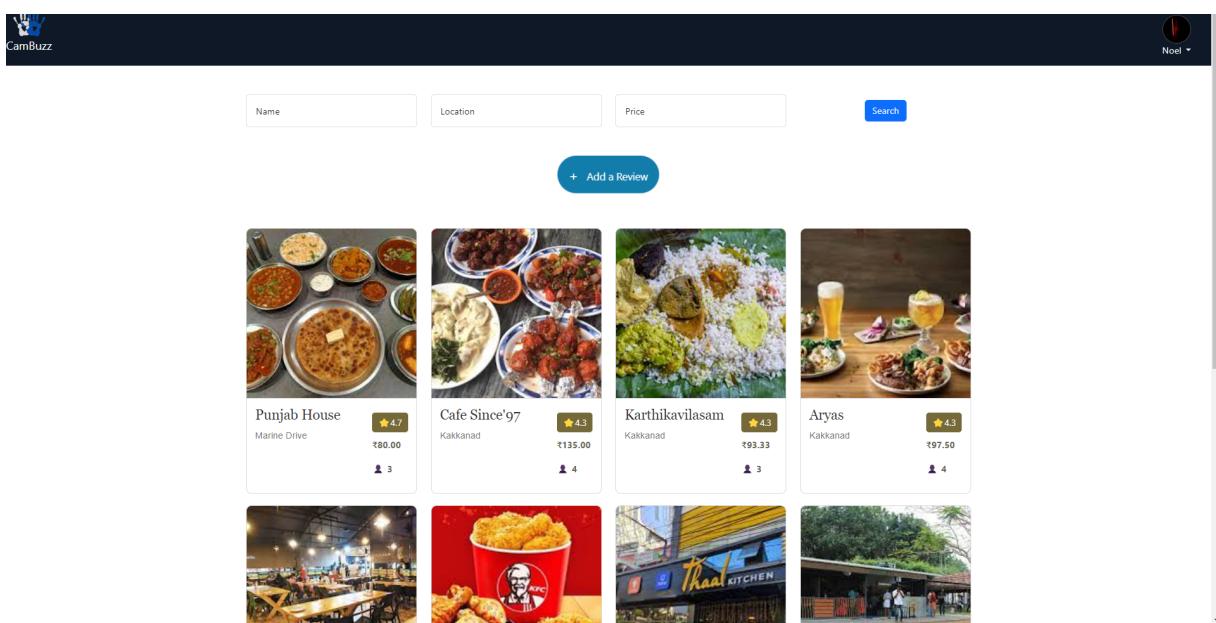


Figure 6.41

Figure shows the main page of the module food spot review/recommendation. In this page, the students can view top rated restaurants added by other students. They can also filter the restaurants according to their name, location and avg price per head. The restaurant displayed in the decreasing order of their ratings. The page also has an add a review button which helps the students to add a review as they want.

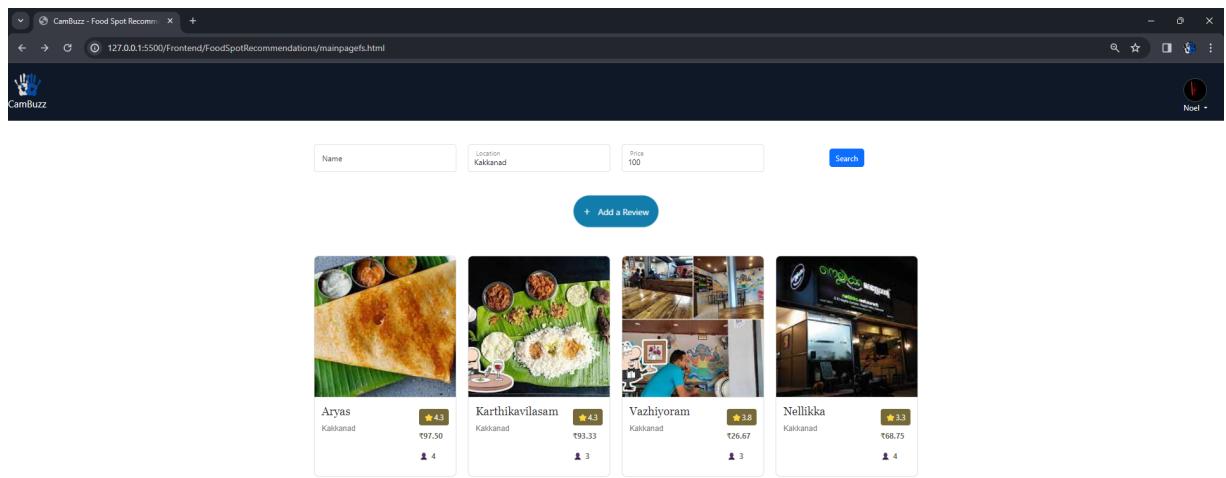


Figure 6.42

Figure shows the restaurants are filtered with location name as Kakkanad.

The screenshot shows a web browser window titled 'CamBuzz - Vehicle Pooling'. The URL is 127.0.0.1:5500/Frontend/FoodSpotRecommendations/add_review_from_main_page.html. The page has a dark header with the 'CamBuzz' logo and a user profile icon for 'Noel'. Below the header, the title 'Add a Review' is centered. The form consists of several input fields:

- Restaurant Name: Alakapuri
- Restaurant Location: Kakkanad
- Food Rating: 4.9
- Service Rating: 4.9
- Ambience Rating: 4.7
- Average User Price per Head: 100
- Top Recommendation: Chicken Biriyani
- Description: Best Chicken Biriyani Ever! Lots of quantity and less price!
- Image: Choose File | ap_7.jpeg

At the bottom right of the form is a blue 'ADD REVIEW' button.

Figure 6.43

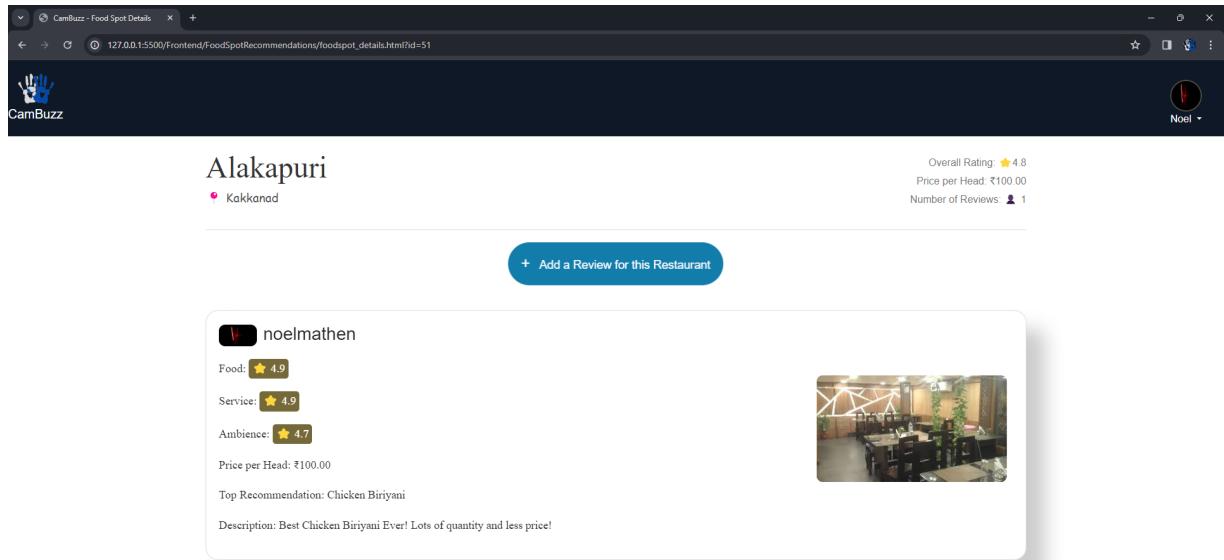


Figure 6.44

Fig 16 shows the page to add a review. In this, restaurant name, location along with its rating and pricing is inputted. Since Noel was the first one to create a review for Alakapuri, his review also created a new restaurant. A restaurant will exist only if there is a review for it. Figure 6.45

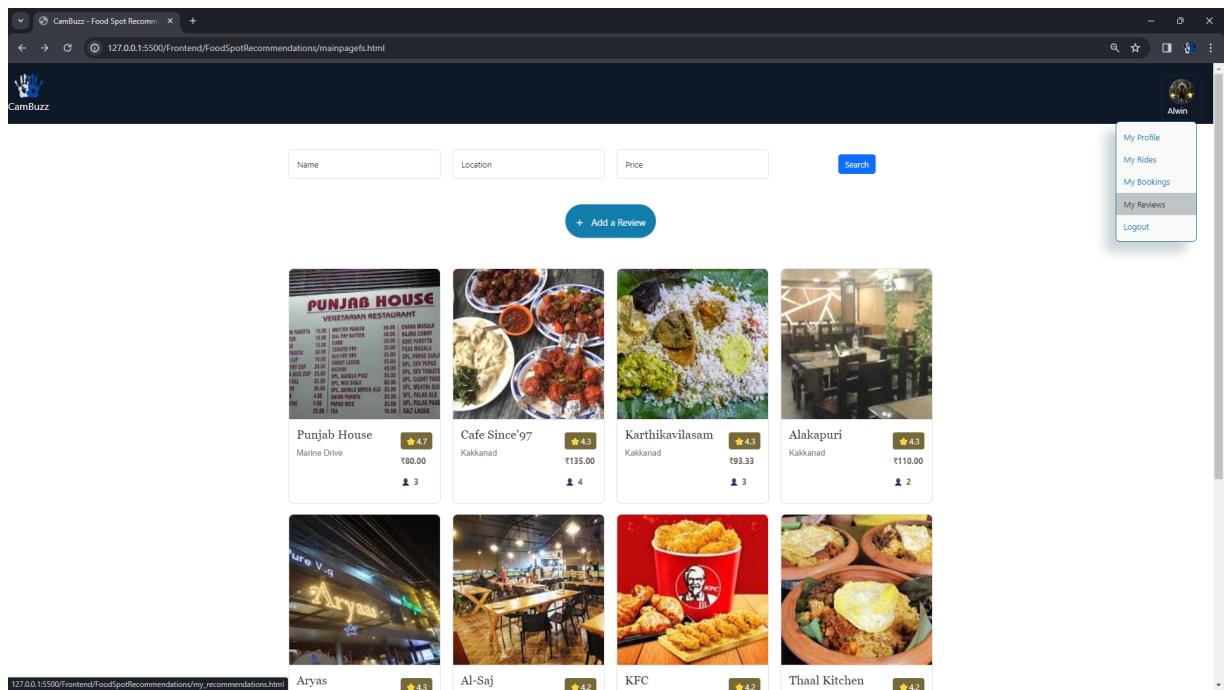


Figure 6.45

Figure shows the existence of my review button in the dropdown from navbar.

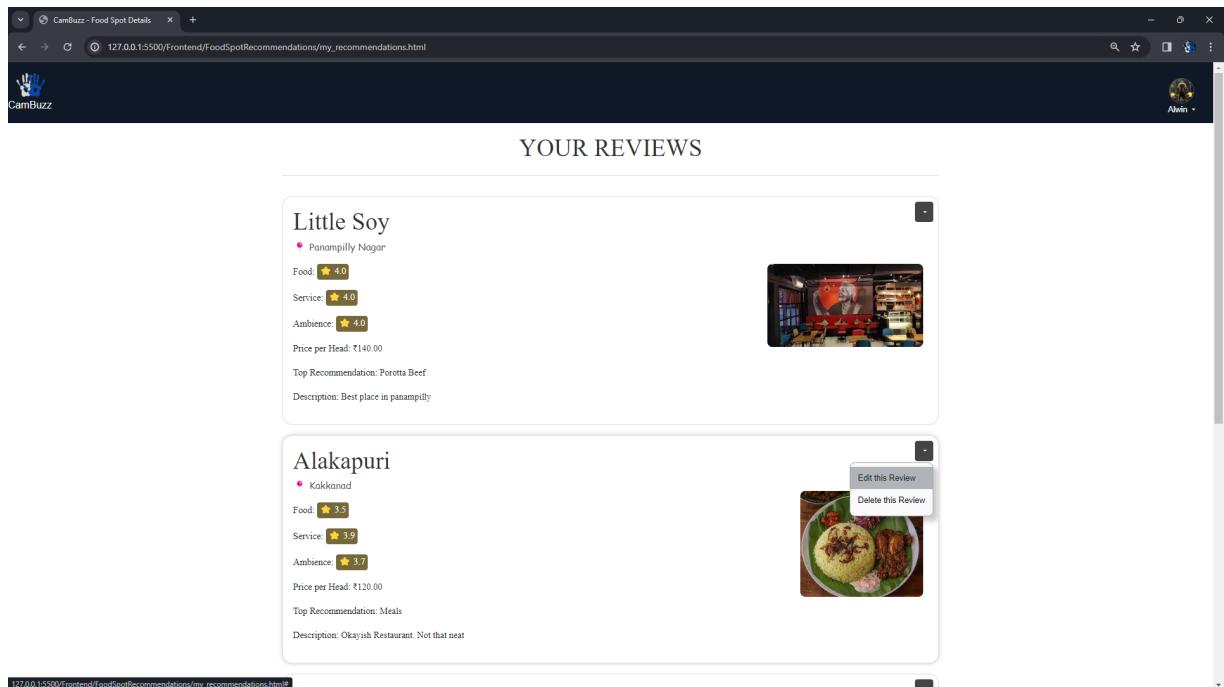


Figure 6.47

Figure shows your review page, which lists all the reviews added by that particular person. For each review there is an edit/cancel button, where the student can edit the review or delete the review.

Figure 6.48

Figure shows the edit page for review. The fields are automatically populated based on the review that was selected by the student

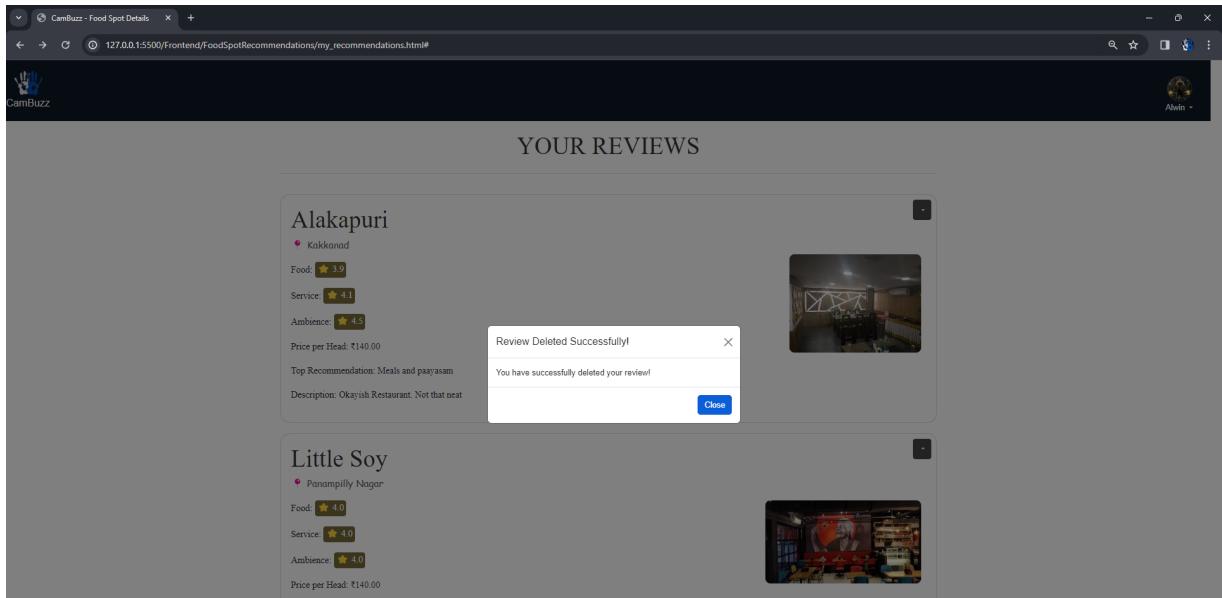


Figure 6.49

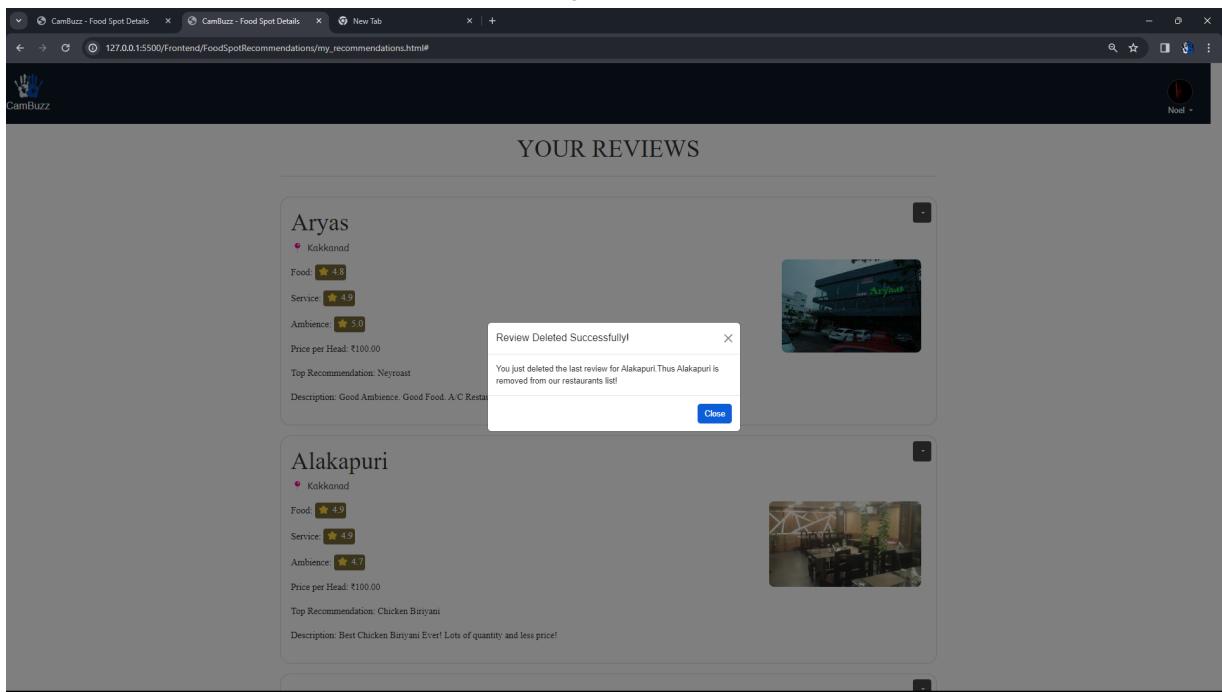


Figure 6.50

Figure shows deletion of review by Alwin. When Noel also deleted the review for Alakapuri, the restaurant is removed from the restaurants list, since it has no suggestions

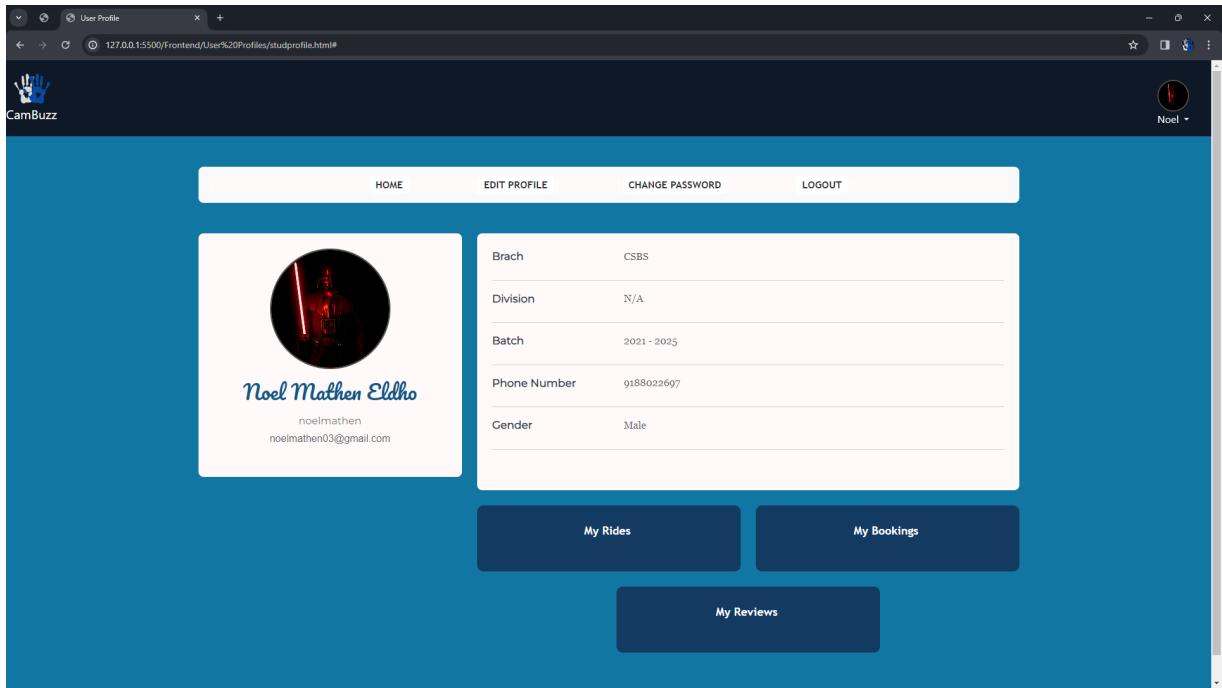


Figure 6.51

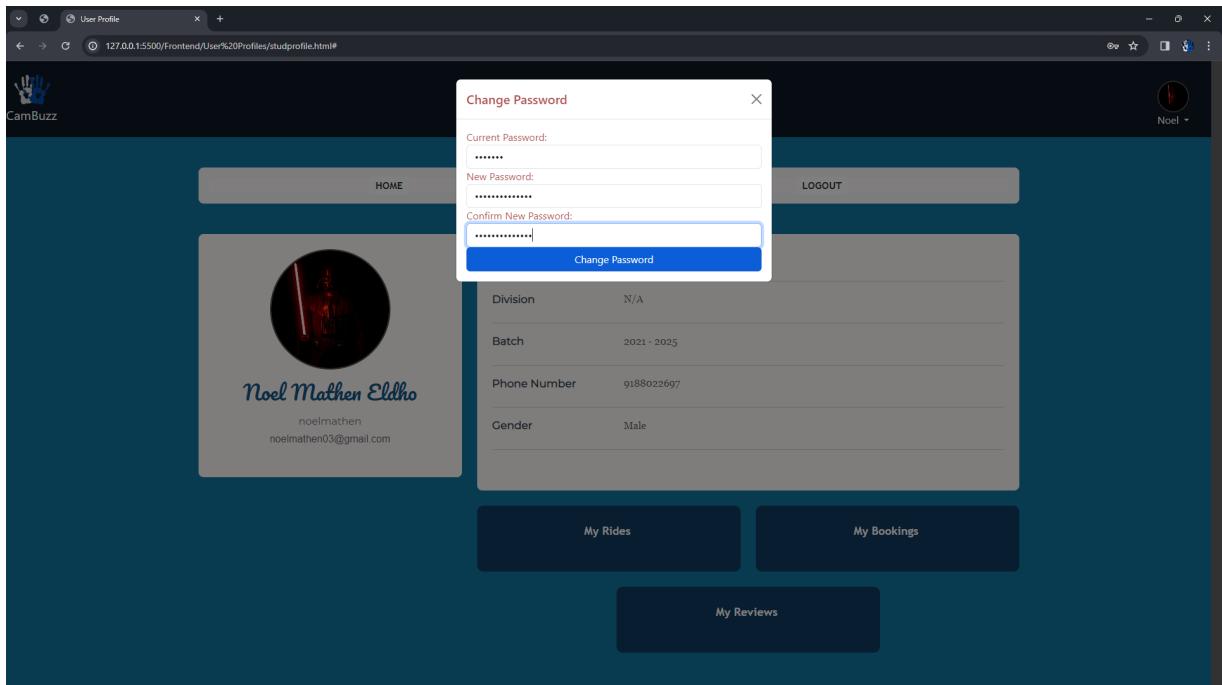


Figure 6.52

Fig 21 and 22 shows the profile page of a student user. The student related details are properly displayed, and it also has options like edit profile, change password, delete account and logout

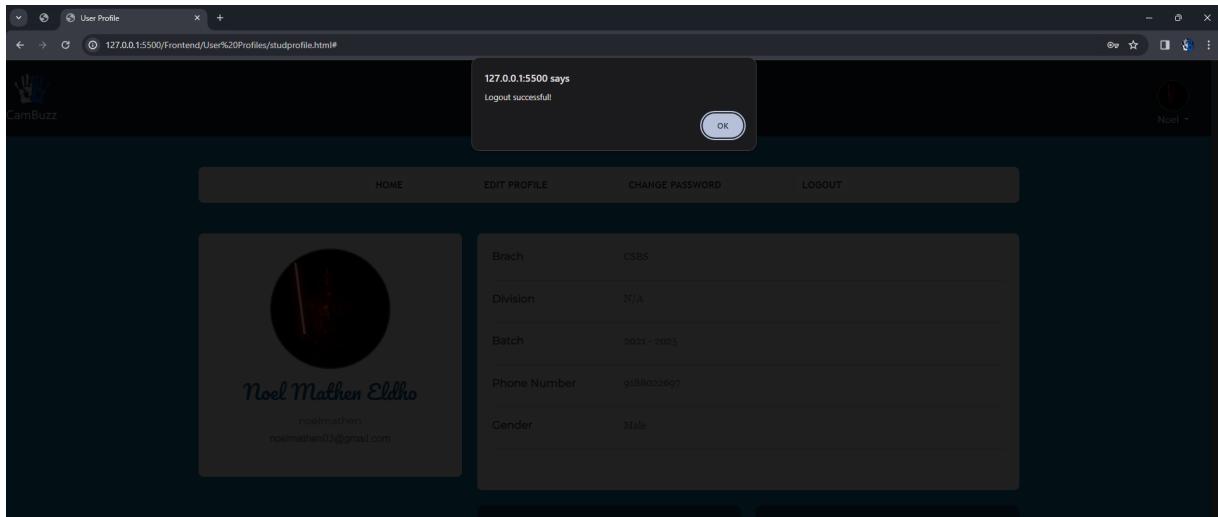


Figure 6.53

Figures show the logout option in the navbar dropdown, so that a user(both student and organization can logout at any time).

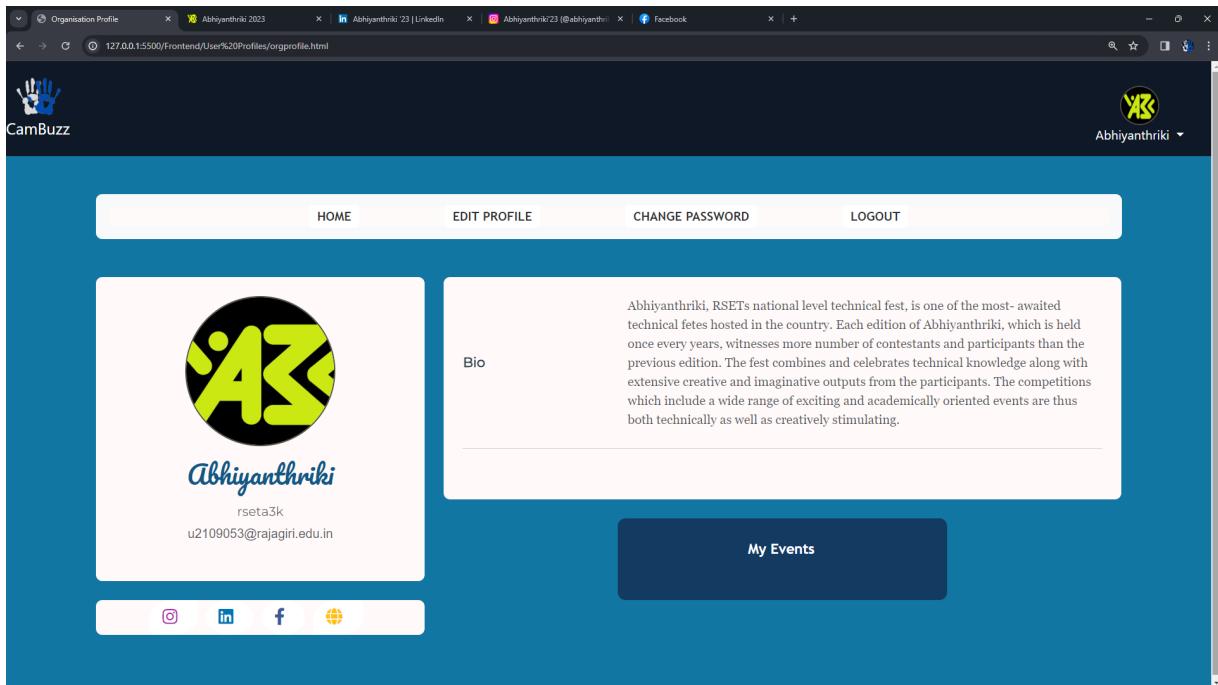


Figure 6.54

Figure depicts the profile page of the organization. It displays the organization related details, along with the various social media links like Instagram, linkedin, facebook, which the organization added during the time of its registration. It also has a reference to the My events page.

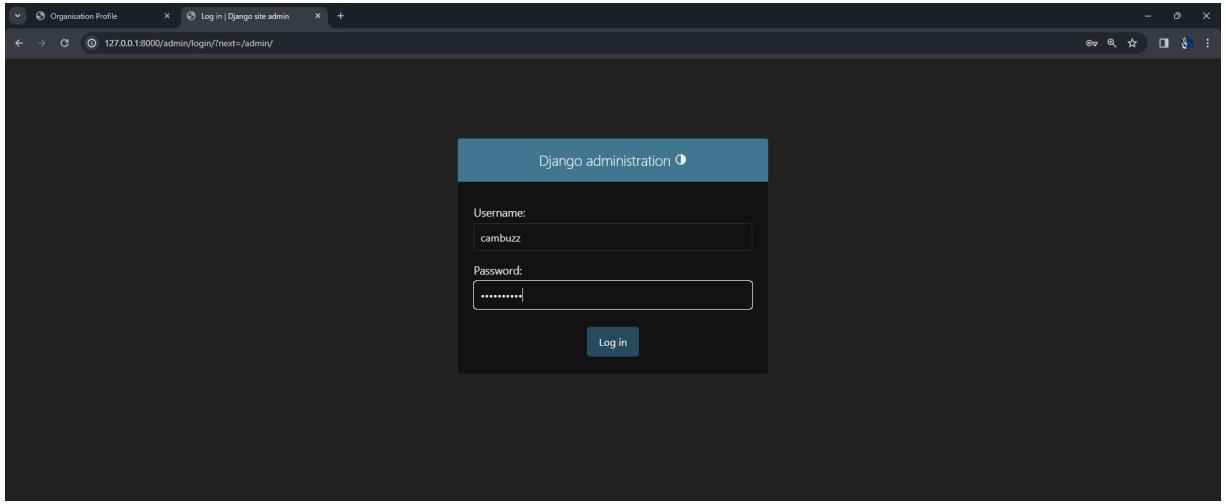


Figure 6.55

Figure depicts the login page for admin in the django admin panel.

A screenshot of the Django administration site administration page. The title bar says "Site administration | Django site admin". The address bar shows "127.0.0.1:8000/admin/". The top right shows "WELCOME, CAMBUZZ. VIEW SITE / CHANGE PASSWORD / LOG OUT". The main area has a sidebar with categories like "ACCOUNTS", "AUTH TOKEN", "AUTHENTICATION AND AUTHORIZATION", "EVENTHUB", "FOODRECOMMENDATION", "ORGANISATIONS", "STUDENT", and "VEHICLEPOOLING". Each category has sub-items like "Users", "Tokens", "Groups", "Events", "Recommendations", "Restaurants", "Organisation registration requests", "Organisations", "Students", "Bookings", and "Vehicle listings", each with "Add" and "Change" buttons. To the right is a "Recent actions" sidebar listing various objects added or changed, such as "Punjabi House - Marine Drive Restaurant", "alvinjoseph User", and "Noel's recommendation for Alttagut Recommendation".

Figure 6.56

This is the list of all database tables that are in this project. For each object inside this table, the admin has access to all functionalities like view/add/update/delete etc.

The figure consists of three side-by-side screenshots of a Django administration interface for a "Foodrecommendation" application.

- Screenshot 1 (Left):** Shows a list of "RECOMMENDATION" entries. Examples include "Noel's recommendation for Al-Saj", "Noel's recommendation for Punjab House", and "Rehan Renju's recommendation for Punjab House".
- Screenshot 2 (Middle):** Shows a list of "RESTAURANT" entries. Examples include "Punjab House - Marine Drive", "Vazhiyoram - Kakkad", and "Cafe Since'97 - Kakkad".
- Screenshot 3 (Right):** Shows a list of "ORGANISATION" entries. Examples include "Hack Club", "Abhiyanthriki", and "IEEE".

Figure 6.57

The figure consists of three side-by-side screenshots of a Django administration interface.

- Screenshot 1 (Left):** Shows a list of "STUDENT" entries. Examples include "minal", "binur", and "ancy".
- Screenshot 2 (Middle):** Shows a list of "BOOKING" entries. Examples include "Dea Elizabeth Jacob's ride - 2 seat(s) - by Noel Mathen Eldho on 2024-01-01 14:28:45.347069 +00:00", "Paul Dins's ride - 1 seat(s) - by Noel Mathen Eldho on 2023-12-31 09:37:32.516411+00:00", and "Noel Mathen Eldho's ride - 1 seat(s) - by Ancy C. A. on 2023-12-31 09:01:07.121180+00:00".
- Screenshot 3 (Right):** Shows a list of "VEHICLE LISTING" entries. Examples include "noelmathen's Vehicle Listing", "noelmathen's Vehicle Listing", and "rehanrenju's Vehicle Listing".

Figure 6.58

The figure consists of three side-by-side screenshots of the Django admin interface, each showing a list of existing objects for a specific model.

- AUTH TOKEN:** This screenshot shows a list of tokens. The columns are KEY, USER, and CREATED. The data includes various token IDs and their corresponding users and creation dates.
- EVENTHUB:** This screenshot shows a list of events. The columns are ACTION, EVENT, and a list of event names. The events listed include "Rags to Riches", "Pixelworks", "My Story", "Hacks'US - Edition III", "Mephistopheles", "The Phishy Case of Sir Reginald", "BRAINFREEZE", "Maestro De Circuito", "ELECTRO HUNT", "County Cricket", "Circuit Race", "Arduino Arcade Bash", "3's FOOTBALL", "Coin Craft", "Catalyst Create", "HackKernel 2.0", and "Introduction to Figma".
- EVENTHUB:** This screenshot shows a list of events. The columns are ACTION, EVENT, and a list of event names. The events listed include "Rags to Riches", "Pixelworks", "My Story", "Hacks'US - Edition III", "Mephistopheles", "The Phishy Case of Sir Reginald", "BRAINFREEZE", "Maestro De Circuito", "ELECTRO HUNT", "County Cricket", "Circuit Race", "Arduino Arcade Bash", "3's FOOTBALL", "Coin Craft", "Catalyst Create", "HackKernel 2.0", and "Introduction to Figma".

Figure 6.59

These 3 figures show the current existing objects for each table.

Chapter 7

Conclusions & Future Scope

In conclusion, CamBuzz epitomizes the seamless integration of technological innovation and student-focused functionality, standing as a testament to its commitment to enhancing the day-to-day lives of students. The web application boasts a meticulously crafted user interface that ensures a smooth and intuitive experience for its users. At its core, CamBuzz is equipped with pivotal functionalities such as vehicle pooling, food spot recommendations, and an event hub, each designed to cater to distinct aspects of a student's lifestyle. The vehicle pooling feature, with its inclusive capabilities, not only offers an economical mode of transportation but also streamlines the process through functionalities like ride search, ride publication, and ride booking. The food spot recommendations feature adds a social dimension to students' culinary experiences, empowering them to discover and share insights about local restaurants, thereby facilitating informed decision-making through peer reviews. Additionally, the event hub, developed in collaboration with organizations like IEDC and clubs, serves as a centralized platform for event discovery, fostering community involvement and exposing students to a diverse array of activities. From a development perspective, CamBuzz leverages a comprehensive set of tools, including HTML, CSS, JavaScript, Python, the Django framework, Visual Studio Code editor, and Git/GitHub version control. The project's emphasis on utilizing various modeling techniques, such as Data Flow Diagrams, Entity-Relationship Diagrams, and UML diagrams, played a pivotal role in shaping the conceptualization, design, and structural framework of the system. In essence, CamBuzz not only meets the pragmatic needs of students but also actively contributes to cultivating a more connected and engaged student community. Through the amalgamation of cutting-edge technologies, thoughtful design, and a collaborative spirit, CamBuzz emerges as a valuable and transformative addition to the student lifestyle landscape.

Future Scope

CamBuzz, with its current suite of features, lays a solid foundation for future enhancements and expansions, specifically targeting the improvement and extension of its primary functionalities:

1. Enhanced Mobility Solutions: Expand the vehicle pooling feature by incorporating advanced route optimization algorithms, and integration with public transportation systems. This could further enhance the efficiency of transportation for students.
2. Advanced Food Spot Recommendations: Evolve the food spot recommendations by integrating machine learning algorithms to provide personalized suggestions based on individual preferences, dietary restrictions, and historical usage patterns.
3. Community Engagement Features: Introduce features that encourage community engagement, such as forums, discussion boards, or chat functionalities within the application. This could foster a sense of community among students, allowing them to share experiences and information more dynamically.

By concentrating on these future scopes, CamBuzz can not only refine its existing functionalities but also cater more precisely to the evolving needs of the student community, ensuring continued relevance and utility.

References

- [1]Y. Gao, W. Yu, P. Chao, R. Zhang, A. Zhou, and X. Yang, “A Restaurant Recommendation System by Analyzing Ratings and Aspects in Reviews,” Lecture Notes in Computer Science, Jan. 01, 2015. <https://doi.org/10.1007/978-3-319-18123-3-33>
- [2]L. Mitropoulos, A. Kortsari, and G. Aifadopoulou, “A systematic literature review of ride-sharing platforms, user factors and barriers,” European Transport Research Review, Dec. 01, 2021. <https://doi.org/10.1186/s12544-021-00522-1>

Appendix I: Presentation



MINI PROJECT GROUP 14 :- S5 CSBS 2021-2025

CAMBUZZ STUDENT LIFESTYLE MANAGEMENT

PROJECT GUIDE

Ancy C A
Assistant Professor
Department of IT
RSET

Date of Presentation: 09/01/2024

GROUP MEMBERS

Bride Benson
Dea Elizabeth Varghese
Noel Mathen Eldho
Rehan Renju Alunkal

TABLE OF CONTENTS

01 Introduction	02 Problem Statement	03 Objectives	04 Motivation	05 Scope and Applications
06 Challenges	07 Literature Review	08 Modules	09 Functionalities	10 Block Diagram
11 Use Case Diagram	12 ER Diagram	13 Sequence Diagram	14 Class Diagram	15 Database Design
16 Data Flow Diagrams	17 Project Timeline	18 Implementation Details	19 Screenshots of Work Done	

INTRODUCTION

- CamBuzz is a student lifestyle management system designed to enhance the lives of college students.
- It simplifies commuting, centralizes event organization, and offers an exclusive food spot recommendation system for students.
- Tackles various challenges within the college community, providing a comprehensive solution for a more enjoyable college experience.

PROBLEM STATEMENT

Students encounter integration challenges in ride-sharing, dining discovery, and event updates, leading to inefficiencies in managing college experiences.

OBJECTIVES

- * Optimize Student Mobility:
- * Foster Community Engagement:
- * Enhance Culinary Exploration:

MOTIVATION

- Tired of googling ‘Cafes to visit next to me’
- Increased bus fare, fuel prices
- Many students ride alone with their vehicles, leaving seats empty
- Organisations/clubs dumping their events on whatsapp groups
- Students complaining about missing events

SCOPE AND APPLICATIONS

- Within college students and organisations/clubs/associations
- Can be used by students for effective travel pooling, discover local food spots based on peer reviews, and stay updated on college event
- Can be used by organisations to promote and publicize their events amongst students

CHALLENGES

1. User input error
2. Internet connectivity issues of users
3. User Adoption
4. User Education
5. Organizational Collaboration

LITERATURE REVIEW

[1]Y. Gao, W. Yu, P. Chao, R. Zhang, A. Zhou, and X. Yang, “A Restaurant Recommendation System by Analyzing Ratings and Aspects in Reviews,” Lecture Notes in Computer Science, Jan. 01, 2015. <https://doi.org/10.1007/978-3-319-18123-3-33>

[2]L. Mitropoulos, A. Kortsari, and G. Aifadopoulou, “A systematic literature review of ride-sharing platforms, user factors and barriers,” European Transport Research Review, Dec. 01, 2021.
<https://doi.org/10.1186/s12544-021-00522-1>

MODULES

1. User Management Module
2. Travel Pooling Module
3. Food Recommendation Module
4. Event Management Module

FUNCTIONALITIES

1. User Management

- Manage user-related functionalities within the system(admin, student, organisation)
- User registration
- Registration Approval by admin
- User login
- User Authentication
- User profiles
- Profile Editing

FUNCTIONALITIES

2. Travel Pooling

- Search rides
- Filter rides based on location and date
- Book suitable rides, select seat numbers as per requirement
- View, edit and cancel bookings
- Publish rides
- View, edit and delete published rides

FUNCTIONALITIES

3. Food Spot Recommendation

- Search and filter top restaurants reviewed by others
- Filtering based on price and rating of restaurants
- Automatic average rating and price calculation based on reviews
- Add a review for a restaurant/ food spot of your choice
- List detailed review made by students for a restaurant
- View/update/delete reviews

FUNCTIONALITIES

4. Event Management Module

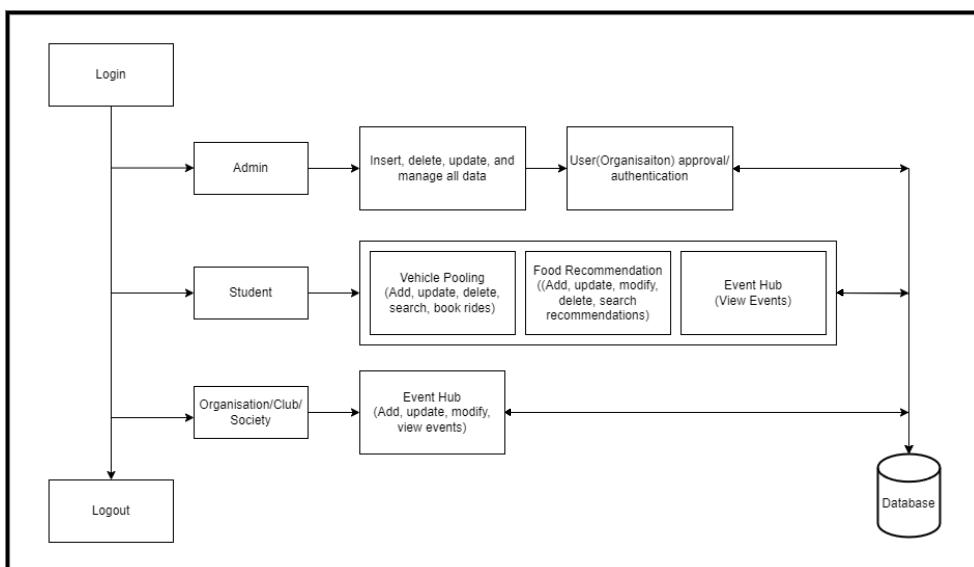
- Organisations:

- > Publish events
- > Edit, remove events

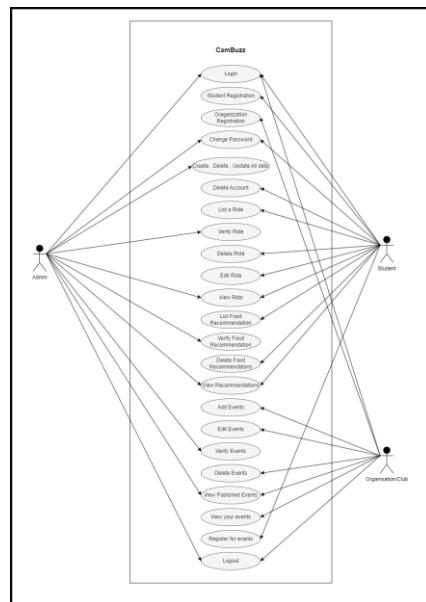
- Students:

- > Search for events
- > Filter events based on organisations and date
- > Quick registration features

BLOCK DIAGRAM



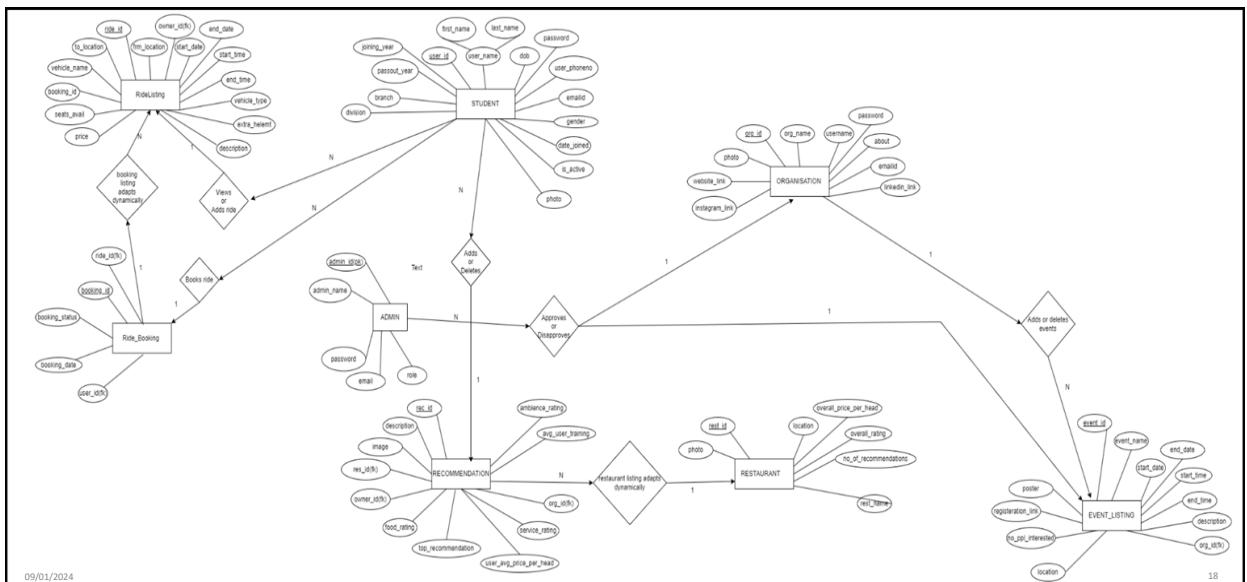
USE CASE DIAGRAM



09/01/2024

17

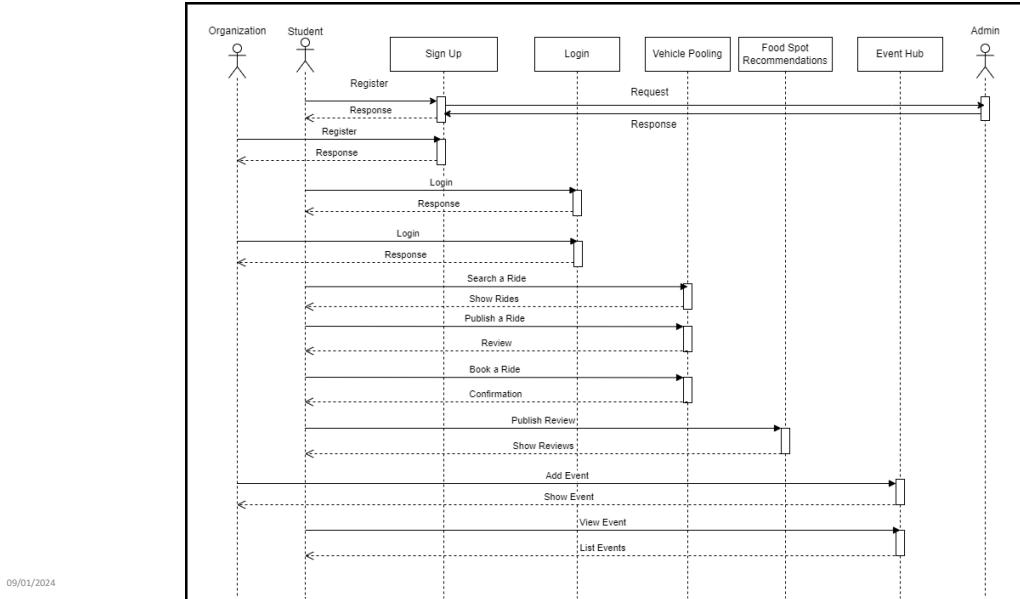
ER DIAGRAM



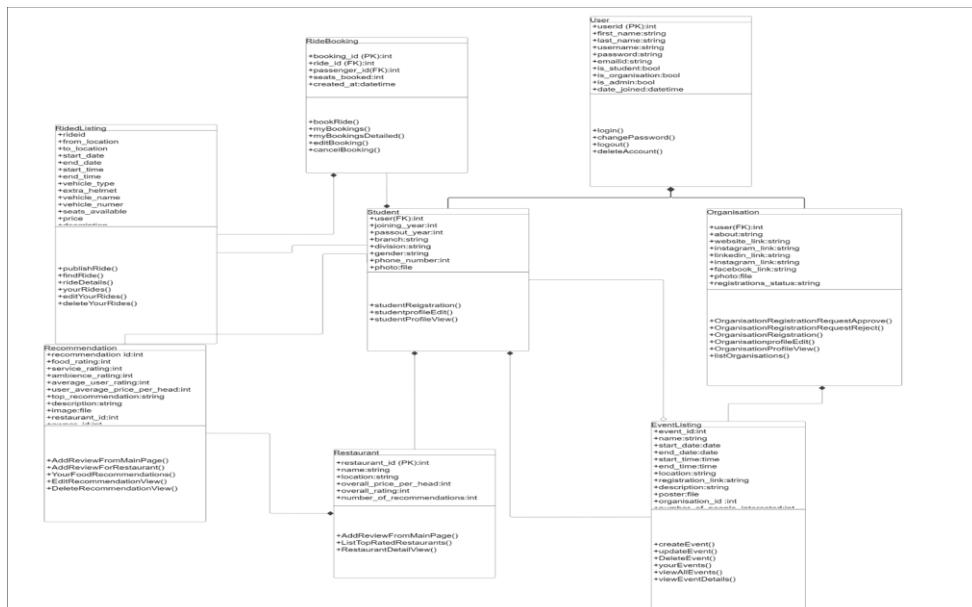
09/01/2024

18

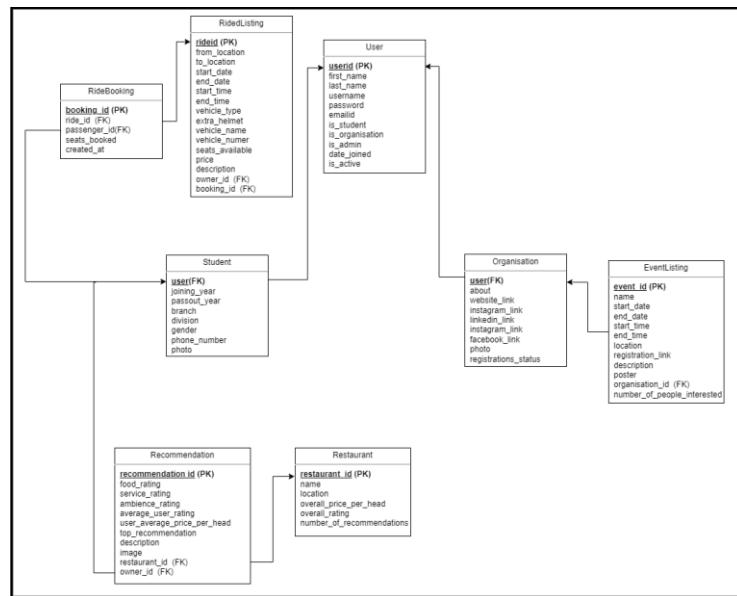
SEQUENCE DIAGRAM



CLASS DIAGRAM



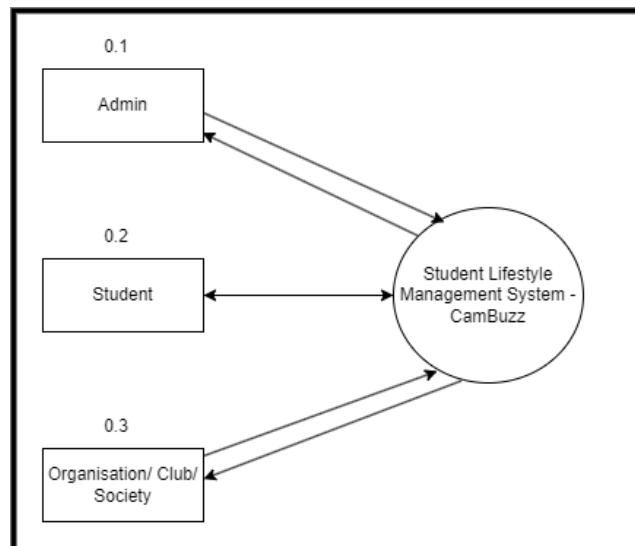
DATABASE DESIGN



09/01/2024

21

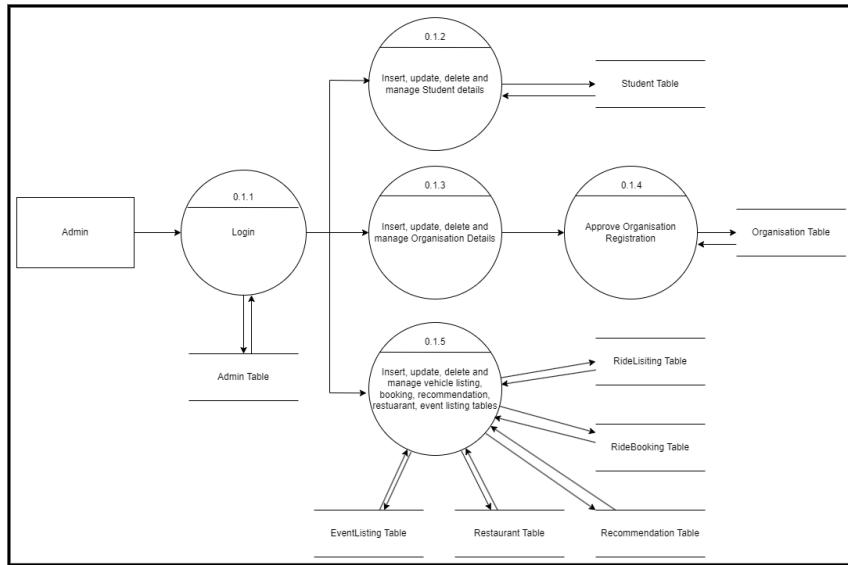
DFD LEVEL 0



09/01/2024

22

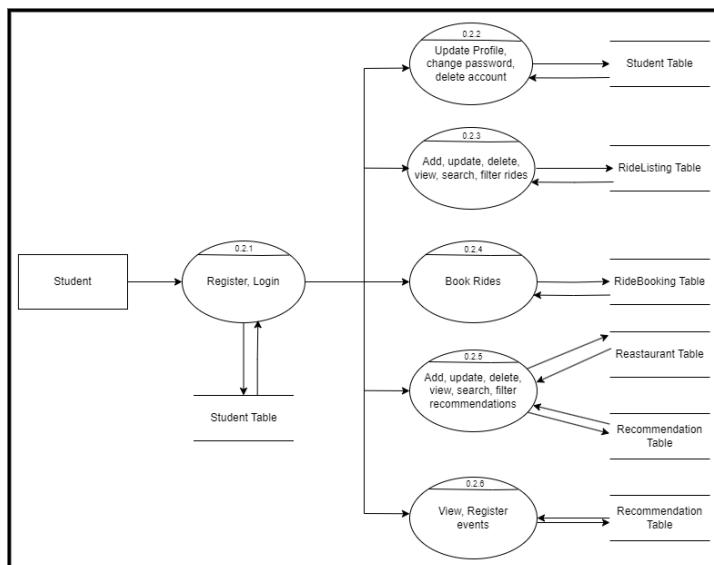
DFD LEVEL 1.1



09/01/2024

23

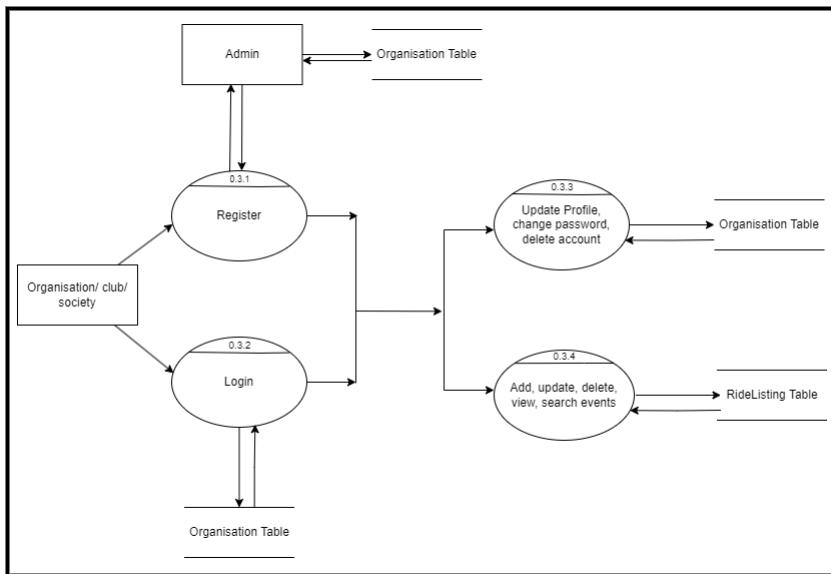
DFD LEVEL 1.2



09/01/2024

24

DFD LEVEL 1.3



PROJECT TIMELINE

Task Name	SEPT	OCT	NOV	DEC
IDEA SELECTION	18 SEPT - 28 SEPT			
ABSTRACT SUBMISSION		29 SEPT - 03 OCT		
ABSTRACT PRESENTATION		08 OCT - 13 OCT		
WORKING ON DFD,ER			23 OCT- 30 NOV	
WORKING ON BLOCK AND SEQUENCE DIAGRAMS			30 OCT- 24 NOV	
WORKING ON UI & DATABASE			06 NOV - 24 NOV	
INTERMEDIATE PRESENTATION				21 NOW - 01 DEC
FRONTEND & BACKEND				05 DEC- 30 DEC

IMPLEMENTATION DETAILS



Coding Language

HTML, CSS,
JS Python



Frameworks

Django



Database

PostgreSQL

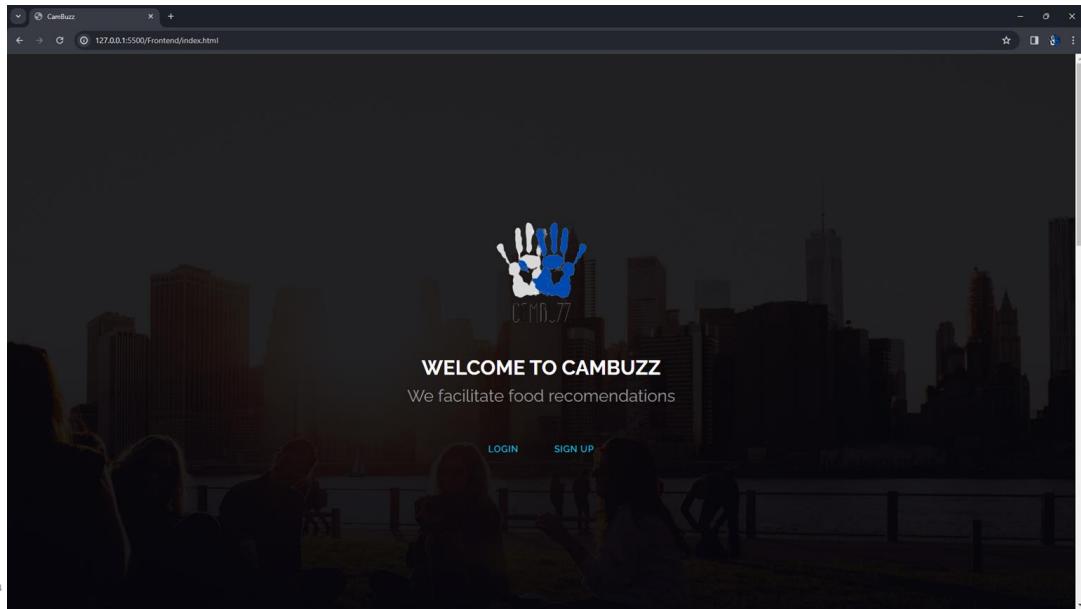


Version Control

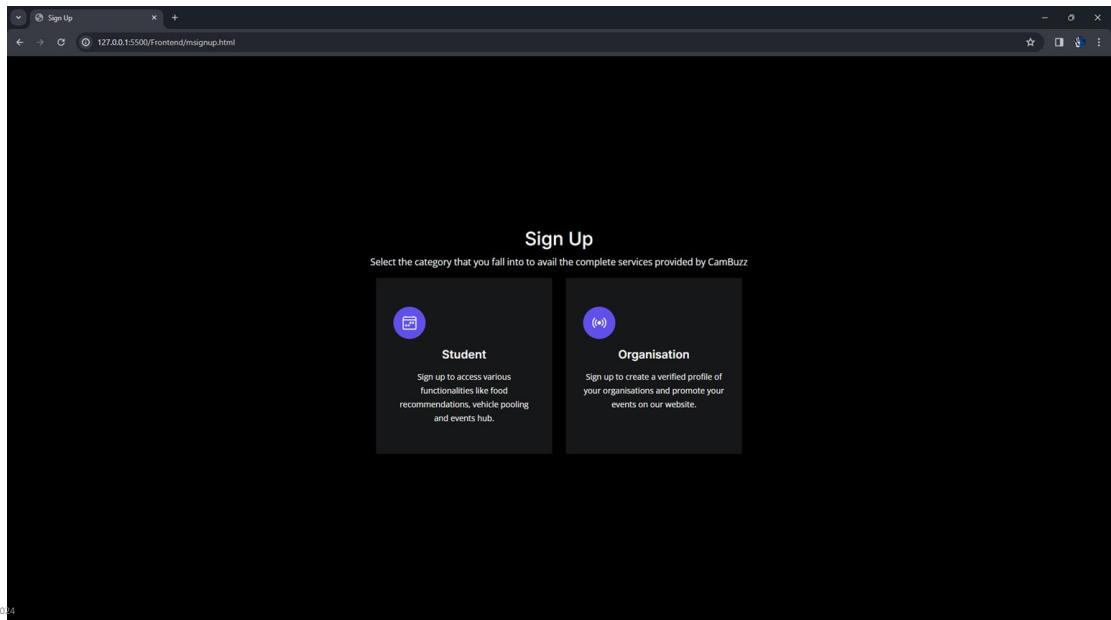
Git , GitHub

SCREENSHOTS OF WORK DONE

INDEX PAGE



SIGN UP PAGES



STUDENT SIGN UP

The screenshot shows a registration form titled "Sign Up as a Student". The page has a dark background with white text. It includes fields for First Name, Last Name, Email, Username, Password, Phone Number, Gender, Joining Year, Branch, Division, and a file upload for a profile picture. A "Submit" button is at the bottom.

Sign Up as a Student

Please fill in with the required information

Enter Your First Name: [Redacted]

Enter Your Last Name: [Redacted]

Enter Your Email: [Redacted]

Enter Your Username: [Redacted]

Create a New Password: [Redacted]

Enter Your Phone Number: [Redacted]

Gender: [Redacted]

Joining Year: [Redacted]

Branch: [Redacted]

Division: [Redacted]

Upload a profile picture: [Choose File] No file chosen

Submit

09/01/2024 31

ORGANISATION SIGN UP

The screenshot shows a registration form titled "Sign Up as an Organisation". The page has a dark background with white text. It includes fields for Organisation Name, Email, Username, Password, social media links (Instagram, LinkedIn, Facebook), website URL, a description for the organisation, and a file upload for a profile picture. A "Submit" button is at the bottom, along with links for existing accounts and login.

Sign Up as an Organisation

Please fill in with the required information

Enter the Name of your Organisation: [Redacted]

Enter your Email: [Redacted]

Enter your Username: [Redacted]

Create a Password: [Redacted]

Enter the link to your Instagram Profile: [Redacted]

Enter the link to your LinkedIn Profile: [Redacted]

Enter the link to your Facebook Profile: [Redacted]

Enter the link to your Website: [Redacted]

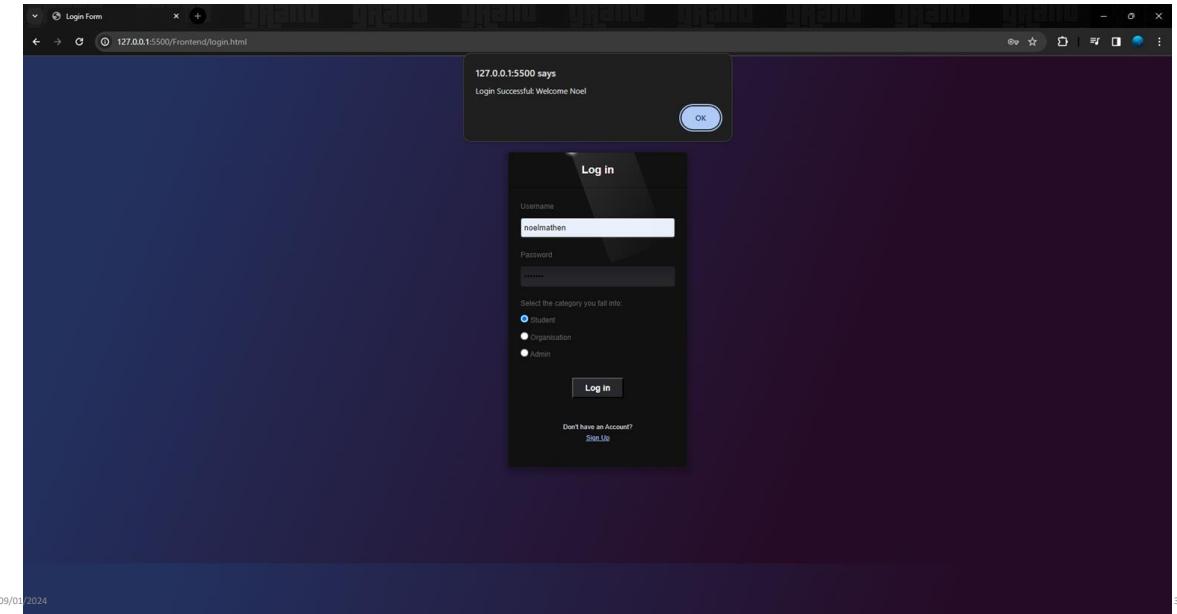
Provide a description for your Organisation:
about the organization [Redacted]

Upload a profile picture: [Choose File] No file chosen

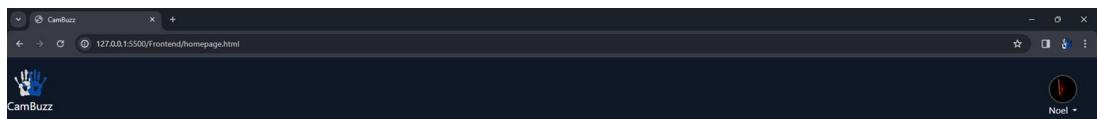
Submit

Already have an account? [Login](#) 32

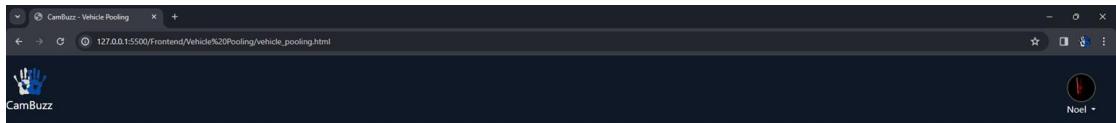
LOGIN PAGE



HOME PAGE



VEHICLE POOLING HOME PAGE



Student vehicle pooling provides a cost-effective and eco-friendly solution, enabling easy ride-sharing for daily commutes or special events. With customizable fares, the system ensures fair cost-sharing, fostering a community-driven approach to transportation. Whether heading to campus or events, this feature streamlines student travel, optimizing resources and reducing expenses while promoting a sustainable and efficient transportation network.

SEARCH AND FILTER RIDE

A screenshot of a web browser window titled "Search Rides". The URL is "127.0.0.1:5500/Frontend/Vehicle%20Pooling/search_ride.html". The page has a search bar with fields for "Leaving From", "Going To", and "Date dd-mm-yyyy", followed by a "Search" button. Below the search bar is a grid of ride listings. Each listing includes the departure time, location, date, mode of transport, fare, and the number of passengers. Some entries also show driver profiles. The rides are categorized into three columns: morning departures, afternoon departures, and evening departures.

FILTERING BASED ON LOCATION AND DATE

The screenshot shows a web browser window titled "Search Rides". The URL is 127.0.0.1:5500/Frontend/Vehicle%20Pooling/search_ride.html. The Cambuzz logo is in the top left, and a user profile for "Noel" is in the top right. The search form includes fields for "Leaving From" (RSET), "Going To", and "Date" (23-01-2024). A "Search" button is present. Below the form, three ride results are listed in cards:

From	To	Date	Time	Driver	Passenger	Price
RSET	Padamugal	Jan 23, 2024	4:45pm	Rehan Renju	1	₹20.00
RSET	Aluva	Jan 23, 2024	5:20pm	Noel	1	₹25.00
RSET	Muvattupuzha	Jan 26, 2024	4:50pm	Noel	1	₹40.00
			6:00pm			

At the bottom left is the date 09/01/2024, and at the bottom right is the page number 37.

RIDE DETAILS

The screenshot shows a web browser window titled "Ride Details" with the URL 127.0.0.1:5500/Frontend/Vehicle%20Pooling/ride_details.html?ride_id=13. The Cambuzz logo is in the top left, and a user profile for "Noel" is in the top right. The page displays ride details in three sections:

- Ride Owner Details**

Name: Alvin Joseph
Batch: 2021 - 2025 batch
Branch: CSBS
Gender: Male
Phone Number: 8281789226
- Ride Details**

From Location: RSET
To Location: Vypin
Start Date: January 20, 2024
Start Time: 9:30 AM
End Date: January 20, 2024
End Time: 10:00 AM
Vehicle Type: Car
Vehicle Name: Swift
Vehicle Number: KL42K1984
Extra Helmet: No
- Price, Seats, and Description**

Price: ₹100.00
Number of Seats: 4
Description: A ride from my college to Vypin(my home)

A "Book Now" button is at the bottom center. At the bottom left is the date 09/01/2024, and at the bottom right is the page number 38.

BOOK RIDE

Ride Details
Name: Alwin Joseph
Batch: 2021 - 2025 batch
Branch: CSBS
Gender: Male
Phone Number: 8281789226

Ride Details
From Location: RSET
To Location: Vypin
Start Date: January 20, 2024
Start Time: 9:30 AM
End Date: January 20, 2024
End Time: 10:00 AM
Vehicle Type: Car
Vehicle Name: Swift
Vehicle Number: KLA2K1964
Extra Helmet: No

Price, Seats, and Description
Price: ₹100.00
Number of Seats: 4
Description: A ride from my college to Vypin(my home)

Book Now

09/01/2024

39

BOOKING EMAIL NOTIFICATION

Ride Booking Notification [External] Inbox x

cambuzz03@gmail.com
to me ▾

7:32PM (9 minutes ago) 3 of 1,391 X Print Forward ⋮

Dear Alwin Joseph,

We are pleased to inform you that Noel Mathen Eldho has booked 2 seats of your ride.

Ride Details:
- From: RSET
- To: Vypin
- Date: Jan. 20, 2024
- Time: 9:30 a.m.

Passenger Details:
- Full Name: Noel Mathen Eldho
- Batch: 2021 - 2025 batch
- Branch: CSBS

For further details, please contact the passenger at 9188022697.

Thank you for using our platform.

Best Regards,
CamBuzz - VehiclePooling Team

09/01/2024

40

BOOKING SUCCESS MESSAGE DISPLAY

The screenshot shows a web browser window with the URL 127.0.0.1:5500/Frontend/Vehicle%20Pooling/ride_details.html?ride_id=13. The page displays 'Ride Owner Details' for Alvin Joseph, including his name, batch, branch, gender, and phone number. Below this is the 'Ride Details' section, which lists the ride from RSET to Vypin on January 20, 2024, at 9:30 AM. The 'Price, Seats, and Description' section shows a price of ₹100.00 for 4 seats. A prominent 'Ride Booking Successful' modal box is centered on the page, stating: 'You have successfully booked 2 seat(s) of Alvin Joseph's ride from RSET to Vypin on 2024-01-20. View (or modify) your bookings at [Your Bookings](#)'. A 'Close' button is at the bottom right of the modal. At the bottom of the main page, there is a 'Book Now' button.

41

MY BOOKINGS PAGE

The screenshot shows a web browser window with the URL 127.0.0.1:5500/Frontend/Vehicle%20Pooling/my_bookings.html. The page title is 'My Bookings'. It lists three booking entries:

From	To	Date	Time	Price	Passenger Count
Palakkadu	Kollam	January 20, 2024	09:00:00	₹70	1
RSET	Vypin	January 20, 2024	09:30:00	₹100	2
RSET	Piravom	January 21, 2024	21:00:00	₹150	2

Each entry includes a small profile picture of the rider and a timestamp indicating when the booking was made. The page also features a 'CamBuzz' logo in the top left and a user profile icon in the top right.

42

BOOKING DETAILS PAGE

This screenshot shows the 'Booking Details' page of a web application. At the top right, there is a user profile icon for 'Neil'. The main content area is divided into three sections: 'General Information', 'Ride Owner Details', and 'Ride Details'. In the 'General Information' section, it says 'Number of Seats Booked: 2', 'Created At: a minute ago', 'Price: ₹100', and 'Description: A ride from my college to Vypin(my home)'. The 'Ride Owner Details' section lists 'Name: Alvin Joseph', 'Batch: 2021 - 2025 batch', 'Branch: CSBS', 'Gender: Male', and 'Phone Number: 8281789226'. The 'Ride Details' section provides 'From Location: RSET', 'To Location: Vypin', 'Start Date: 2024-01-20', 'Start Time: 09:30:00', 'End Date: 2024-01-20', 'End Time: 10:00:00', 'Vehicle Type: Car', 'Vehicle Name: Swift', 'Vehicle Number: KL42K1984', and 'Extra Helmet: No'. On the right side of the page, there are two blue buttons: 'Edit this Booking' and 'Cancel this Booking'. The bottom left corner shows the date '09/01/2024' and the bottom right corner shows the number '43'.

EDIT BOOKING

This screenshot shows the 'Edit Booking' page. A modal window titled 'Edit Ride' is open in the center, displaying a 'Select number of seats:' input field with a value of '1' and a '+' button. Below the input field are 'Close' and 'Edit' buttons. The background of the page is dimmed. The main content area is identical to the 'Booking Details' page, featuring 'General Information', 'Ride Owner Details', and 'Ride Details' sections. The bottom left corner shows the date '09/01/2024' and the bottom right corner shows the number '44'.

EDIT BOOKING CONFIRMATION

General Information

Number of Seats Booked: 2
Created At: a minute ago
Price: ₹100
Description: A ride from my college to Vypin(my home)

Ride Owner Details

Name: Alvin Joseph
Batch: 2021 - 2025 batch
Branch: CSRS
Gender: Male
Phone Number: 8281789226

Ride Details

From Location: RSET
To Location: Vypin
Start Date: 2024-01-20
Start Time: 09:30:00
End Date: 2024-01-20
End Time: 10:00:00
Vehicle Type: Car
Vehicle Name: Swift
Vehicle Number: KL42K1984
Extra Helmet: No

Confirm Edit Booking

Are you sure you want to edit this booking?

No Updating your booking

09/01/2024 45

BOOKING EDIT EMAIL NOTIFICATION

Seat Update for Your Ride External Inbox x



cambuzz03@gmail.com
to me ▾

7:34 PM (8 minutes ago)



Dear Alwin Joseph,

We would like to inform you that the Passenger Noel Mathen Eldho has updated their booking for the ride:

Ride Details: RSET to Vypin on 2024-01-20 at 09:30:00

Old Number of Seats: 2

New Number of Seats: 1

Thank you for using our ride-sharing platform.

Best regards,
Your Ride-Sharing Platform



EDIT BOOKING SUCCESS MESSAGE

The screenshot shows a web browser window with two tabs: "Search Rules" and "My Bookings Details". The main content area displays booking details for a ride from RSET to Vypin. A modal window titled "Ride Booking Successful" contains the message: "You have updated your number of seats from 2 to 1 of Alvin's ride". The modal has a "Close" button.

General Information

Number of Seats Booked: 2

Created At: a minute ago

Price: ₹100

Description: A ride from my college to Vypin(my home)

Ride Owner Details

Name: Alvin Joseph

Batch: 2021 - 2025 batch

Branch: CSBS

Gender: Male

Phone Number: 8281789226

Ride Details

From Location: RSET

To Location: Vypin

Start Date: 2024-01-20

Start Time: 09:30:00

End Date: 2024-01-20

End Time: 10:00:00

Vehicle Type: Car

Vehicle Name: Swift

Vehicle Number: KL42K1984

Extra Helmet: No

09/01/2024 47

CANCEL BOOKING

The screenshot shows a web browser window with two tabs: "My Bookings Details" and another "My Bookings Details" tab. The main content area displays booking details for a ride from RSET to Vypin. A modal window titled "Cancel Booking" asks "Are you sure you want to cancel this booking?". It has "No" and "Yes" buttons, and a progress bar indicating " Cancelling your booking...".

General Information

Number of Seats Booked: 1

Created At: 8 minutes ago

Price: ₹100

Description: A ride from my college to Vypin(my home)

Ride Owner Details

Name: Alvin Joseph

Batch: 2021 - 2025 batch

Branch: CSBS

Gender: Male

Phone Number: 8281789226

Ride Details

From Location: RSET

To Location: Vypin

Start Date: 2024-01-20

Start Time: 09:30:00

End Date: 2024-01-20

End Time: 10:00:00

Vehicle Type: Car

Vehicle Name: Swift

Vehicle Number: KL42K1984

Extra Helmet: No

09/01/2024 48

CANCELLATION EMAIL NOTIFICATION

Add to Tasks

Booking Cancellation for Your Ride External Inbox

 cambuzz03@gmail.com
to me ▾

7:41PM (2 minutes ago) Star Reply More

Dear Alwin Joseph,

We regret to inform you that the booking made by for your ride has been canceled.

Canceled Booking Details:

- Passenger Name: Noel Mathen Eldho
- Ride Details: RSET to Vypin on 2024-01-20 at 09:30:00
- Number of Seats Canceled: 1

We apologize for any inconvenience this may have caused. If you have any questions or concerns, please feel free to contact the passenger directly.

Thank you for using our ride-sharing platform.

Best Regards,
Your Ride-Sharing Platform

Please cancel. Thank you for informing me. Yes, please cancel.

09/01/2024

49

CANCEL BOOKING SUCCESS MESSAGE

My Bookings Details X My Bookings Details X +
127.0.0.1:5500/Frontend/Vehicle%20Pooling/my_bookings_detail.html?booking_id=37

 Noel

General Information
Number of Seats Booked: 1
Created At: 8 minutes ago
Price: ₹100
Description: A ride from my college to Vypin(my home)

Ride Owner Details
Name: Alwin Joseph
Batch: 2021 - 2025 batch
Branch: CSBS
Gender: Male
Phone Number: 6281789226

Ride Details
From Location: RSET
To Location: Vypin
Start Date: 2024-01-20
Start Time: 09:30:00
End Date: 2024-01-20
End Time: 10:00:00
Vehicle Type: Car
Vehicle Name: Swift
Vehicle Number: KL42K1964
Extra Helmet: No

Booking Cancellation Successfull
You have successfully cancelled your booking of Alwin's ride from RSET to Vypin on 2024-01-20 at 09:30:00

Close

09/01/2024

50

PUBLISH RIDE

127.0.0.1:5500 says
You have published this ride successfully!

From Location
RSET

To Location
Fort Kochi

Start Date
29-01-2024

End Date
29-01-2024

Start Time
10:00

End Time
18:00

Vehicle Type
Bike

Do you have an extra helmet?
Yes

Vehicle Name
FZ-X

Vehicle Number
KL41D3214

Number of Seats
1

Price
60

Description
A ride from college to fort Kochi

PUBLISH

09/01/2024

51

MY RIDES

4:45 PM	RSET	23rd January, 2024			
5:20 PM	Aluva	23rd January, 2024			
Vehicle Type:	Extra Helmet:	Vehicle Number:	Vehicle Name:	Seats Available:	Price:
Bike	false	KL41D9815	Twister	1	25.00
Description: Ride from college to home(Aluva)					
11:00 AM	Aluva	24th January, 2024			
12:00 PM	Panampilly Nagar	24th January, 2024			
Vehicle Type:	Extra Helmet:	Vehicle Number:	Vehicle Name:	Seats Available:	Price:
Car	false	KL41N4337	Dzire	3	50.00
Description: Ride to panampilly nagar. One way.					
4:50 PM	RSET	26th January, 2024			
6:00 PM	Muvattupuzha	26th January, 2024			
Vehicle Type:	Extra Helmet:	Vehicle Number:	Vehicle Name:	Seats Available:	Price:
Bike	true	KL40C7894	Unicorn	1	40.00
Description: Going to my friends house. Join me for a good ride					
4:50 PM	RSET	29th January, 2024			
6:00 PM	Fort Kochi	29th January, 2024			
Vehicle Type:	Extra Helmet:	Vehicle Number:	Vehicle Name:	Seats Available:	Price:
Bike	true	KL41D3214	FZ-X	1	60.00
Description: A ride from college to fort kochi!					

09/01/2024

52

EDIT RIDE

The screenshot shows a web browser window titled "Cambuzz - Vehicle Pooling". The URL is "127.0.0.1:5500/Frontend/Vehicle%20Pooling/edit_ride.html?ridel=39". A modal dialog box is displayed in the center, showing the message "127.0.0.1:5500 says You have edited this ride successfully!" with an "OK" button. The main form contains the following fields:

- From Location: RSET
- To Location: Fort Kochi
- Start Date: 29-01-2024
- End Date: 29-01-2024
- Start Time: 16:30
- End Time: 17:30
- Venue Type: Bike
- Venue Name: FZ-X
- Venue Number: KL410314
- Number of Seats: 1
- Price: 30.00
- Description: A ride from college to fort Kochi(EDITED!)

At the bottom right of the form is a blue "EDIT" button.

09/01/2024

53

LOGIN AS ORGANISATION

The screenshot shows a web browser window titled "Login Form". The URL is "127.0.0.1:5500/Frontend/login.html". A modal dialog box is displayed in the center, showing the message "127.0.0.1:5500 says Login Successful: Welcome IEDC" with an "OK" button. The main login form has the following fields:

- Username: iiedcabc
- Password: [redacted]
- Select the category you fall into:
 - Student
 - Organisation
- Log in button
- Links for "Don't have an Account?" and "Sign Up"

09/01/2024

54

ORGANISATION HOME PAGE



09/01/2024

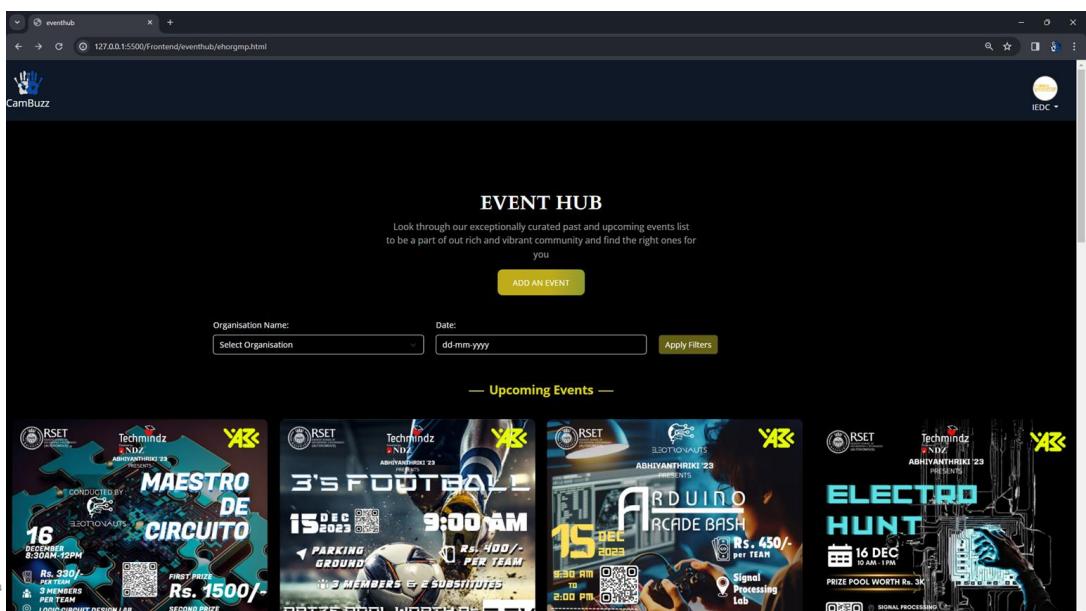
55



EVENT GALLERY(ORGANISATION)

09/01/2024

56



EVENT DESCRIPTION

The screenshot shows a web browser window with the URL 127.0.0.1:5500/Frontend/eventhub/eventdetails/eventdetail.html?event_id=40. The page displays information for the event "Maestro De Circuito".

Event Details:

- Organized by:** RSET, Techmindz, NDZ, ABHIYANTHRIKI '23, VAK
- Date:** January 11, 2024
- Time:** 2:00 PM - 5:30 PM
- Location:** Logic Circuit LAB
- Presented by:** Rajagiri School of Engineering and Technology (Autonomous) as part of Abhiyanthriki '23 presents Maestro De Circuito.
- Registration Fees:** ₹330 per team
- Prize pool:** ₹3,225/-

Description: This electrifying competition is a platform for teams to demonstrate their electronics expertise through mind-boggling challenges. Each round assesses knowledge and application capabilities, with the top-performing teams advancing to face the ultimate challenge!

Contact: Queries? Contact: Mikhael Sunil: 9605535994, Dharsan S: 89219 68232

Registration: A "Register" button is visible at the bottom right of the event details section.

ADD AN EVENT

The screenshot shows a web browser window with the URL 127.0.0.1:5500/Frontend/eventhub/ehaddevent.html. A modal dialog box is open, displaying a success message: "127.0.0.1:5500 says: You[EDC] have added the event PortTest!".

Event Information:

- Event Name:** PortTest
- Start Date:** 15-01-2024
- End Date:** 15-01-2024
- Start Time:** 16:30
- End Time:** 16:30
- Location:** KE, LH 14
- Registration Link:** <https://bit.ly/porttest>
- Description:** Is your portfolio as exciting as a snooze button, or do you not have one at all? ☺
- Note:** Fear not, because RSET IEDC is here to help!
- Text:** Introducing PortTest: A portfolio website saga – a workshop dedicated to elevating your portfolio game. ☺
- Text:** Prepare to be amazed by your own portfolio! ☺
- File Upload:** Choose File: porttest.jpg

Buttons: A "Submit" button is located at the bottom right of the form.

MY EVENTS

The screenshot shows a web page titled "MY EVENTS". It displays a grid of event cards. At the top, there is a header "MY EVENTS" and a sub-header "Here is a gallery of all your past and present events hosted on our website. You can edit and make changes to it as required". Below this, there are two sections: "Upcoming Events" and "Past Events". The "Upcoming Events" section contains four cards: "HackSUS EDITION III", "PORTFEST", "PixelWorks", and "RAGS to RICHES". The "Past Events" section contains three cards: "PRODUCT DEVELOPMENT & DESIGN THINKING", "WORKSHOP ON PRODUCT DEVELOPMENT & DESIGN THINKING", and "IIC RSET in collaboration with RSET IEDC". The bottom of the page includes a footer with social media icons and a copyright notice: "09/01/2024 javascript:void(0);".

MY EVENTS DETAILS

The screenshot shows a detailed view of an event. The title is "PortFest" under the "IEDC" category. The event date is "January 15, 2024", time is "10:00 PM - 10:00 PM", and location is "KE, LH 14". There is a message: "Is your portfolio as exciting as a snooze button, or do you not have one at all? 😴 Fear not, because RSET IEDC is here to help! Introducing PortFest: A portfolio website saga – a workshop dedicated to elevating your portfolio game. 🎉 Prepare to be amazed by your own portfolio! 🌟 Ready to dive in? Secure your spot now!!". Contact information is provided: "Queries? Contact: Febina C U - 9895613421 Juhaina Jafar - 9074142947". At the bottom, there is a "Register" button. The page has a yellow header and a black sidebar. The footer includes a copyright notice: "09/01/2024 127.0.0.1:5500/Frontend/eventhub/eventdetails/eventdetail.html?event_id=49".

EDIT EVENT

Registration Form

127.0.0.1:5500/Frontend/eventhub/editevent.html?event_id=49

Edit your Event

Please alter the information as required

Event Name: Portfest

Start Date: 15-01-2024

End Date: 15-01-2024

Start Time: 16:30

End Time: 16:30

Location of the event: KE, LH 14

Registration link of the event: <https://bit.ly/portfest>

Details of the Event:

I AM EDITING THIS EVENT! Is your portfolio as exciting as a snooze button, or do you not

Event Poster:

Choose File No file chosen

Submit

09/01/2024 61

DELETE EVENT

Event Detail

127.0.0.1:5500/Frontend/eventhub eventdata.eventdetail.html?event_id=49#

127.0.0.1:5500 says
You (IEDC) have successfully deleted the event Portfest!

OK

PortFest
IEDC
January 15, 2024
10:00 PM - 10:00 PM
KE, LH 14
I AM EDITING THIS EVENT!

Delete Event

Are you sure you want to delete this event?

No Yes

Ready to dive in? Secure your spot now! [Get Started](#)

Questions? Contact
Reema C U - 9895613421
Jahana Jafra - 9074142547

Register

09 NOVEMBER, 2023 | 04:30 PM

rssetiedo rssetiedo.in @rssetiedot

62

EVENT GALLERY(STUDENT)

The screenshot shows the "Event Hub" section of the application. At the top, there is a search bar with fields for "Organisation Name:" (dropdown menu: "Select Organisation") and "Date:" (text input: "dd-mm-yyyy"). Below the search bar is a button labeled "Apply Filters".

Upcoming Events

Four event cards are displayed:

- MAESTRO DE CIRCUITO**: Conducted by RSET, Techmindz, and YB. Date: 16 Dec 2023. First Prize: Rs. 1500/-.
- 3'S FOOTBALL**: Conducted by RSET, Techmindz, and YB. Date: 15 Dec 2023. First Prize: Rs. 400/- per team.
- ARDUINO ARCADE BASH**: Conducted by RSET, Techmindz, and YB. Date: 15 Dec 2023. First Prize: Rs. 450/- per team.
- ELECTRO HUNT**: Conducted by RSET, Techmindz, and YB. Date: 16 Dec 2023. First Prize: Rs. 3K.

A sidebar on the right shows user profile information: "Noel", "My Profile", "My Rides", "My Bookings", "My Reviews", and "Logout".

FOOD RECOMMENDATIONS MAIN PAGE/ SEARCH AND FILTER RESTAURANTS

The screenshot shows the "Food Recommendations" main page. At the top, there are three input fields: "Name", "Location", and "Price", followed by a "Search" button. Below these is a button labeled "+ Add a Review".

Four restaurant cards are displayed:

- Punjab House** (Marine Drive): 4.7 stars, ₹80.00, 3 reviews.
- Cafe Since'97** (Kakkadan): 4.3 stars, ₹135.00, 4 reviews.
- Karthikavilasam** (Kakkadan): 4.3 stars, ₹93.33, 3 reviews.
- Aryas** (Kakkadan): 4.3 stars, ₹97.50, 4 reviews.

Below the cards are two additional images: a night view of a restaurant interior and a KFC logo.

A footer bar at the bottom shows the date "09/01/2024" on the left and page number "64" on the right.

ADD REVIEW FROM MAIN PAGE

Screenshot of a web browser showing the "Add a Review" form for a restaurant.

The URL is 127.0.0.1:5500/Frontend/FoodSpotRecommendations/add_review_from_main_page.html.

The form fields are:

- Restaurant Name: Alakapuri
- Restaurant Location: Kakkonad
- Food Rating: 4.9
- Service Rating: 4.9
- Ambience Rating: 4.7
- Average User Price per Head: 100
- Top Recommendation: Chicken Biryani
- Description: Best Chicken Biryani Ever! Lots of quantity and less price!
- Image: Choose File ap_7.jpeg

Buttons at the bottom: ADD REVIEW (blue), Date (09/01/2024), and Page Number (65).

RESTAURANT DETAILS AND REVIEWS

Screenshot of a web browser showing the "Food Spot Details" page for Alakapuri.

The URL is 127.0.0.1:5500/Frontend/FoodSpotRecommendations/foodspot_details.html?id=51.

Restaurant Details:

- Name: Alakapuri
- Location: Kakkonad
- Overall Rating: ★ 4.3
- Price per Head: ₹110.00
- Number of Reviews: 2

Add Review Button: + Add a Review for this Restaurant

User Reviews:

- alwinjoseph** (Profile Picture)
 - Food: ★ 3.5
 - Service: ★ 3.9
 - Ambience: ★ 3.7
 - Price per Head: ₹120.00
 - Top Recommendation: Meals
 - Description: Okayish Restaurant. Not that neat
- noelmathen** (Profile Picture)
 - Food: ★ 4.9
 - Service: ★ 4.9
 - Ambience: ★ 4.7
 - Price per Head: ₹100.00
 - Top Recommendation: Chicken Biryani
 - Description: Best Chicken Biryani Ever! Lots of quantity and less price!

Page Number: 66

ADD REVIEW FROM RESTAURANT PAGE

CamBuzz - Vehicle Pooling

127.0.0.1:5500/Frontend/FoodSpotRecommendations/add_review.html?restaurant_id=32

Al-Saj

Aluva

Overall Rating: ★ 4.2
Price per Head: ₹160.00
Number of Reviews: 3

Add a Review for Al-Saj

Food Rating: 4.8

Service Rating: 4.9

Ambience Rating: 3.5

Average User Price per Head: ₹160

Top Recommendation: Chicken Manchi

Description: Best dining place. Good for night time

Image: Choose File: alsaj_6.jpeg

ADD REVIEW

09/01/2024

67

YOUR REVIEW PAGE

CamBuzz - Food Spot Details

127.0.0.1:5500/Frontend/FoodSpotRecommendations/my_recommendations.html

Admin

YOUR REVIEWS

Little Soy
Panampilly Nagar

Food: ★ 4.0
Service: ★ 4.0
Ambience: ★ 4.0

Price per Head: ₹140.00
Top Recommendation: Perotta Beef

Description: Best place in panampilly

Alakapuri
Kakkonad

Food: ★ 3.5
Service: ★ 3.9
Ambience: ★ 3.7

Price per Head: ₹120.00
Top Recommendation: Meals

Description: Okayish Restaurant. Not that neat

Edit this Review
Delete this Review

alsaj_6.jpeg

09/01/2024

127.0.0.1:5500/Frontend/FoodSpotRecommendations/my_recommendations.html

68

EDIT REVIEW

CamBuzz - Vehicle Pooling

127.0.0.1:5500/Frontend/FoodSpotRecommendations/edit_review.html?recommendation_id=1638&restaurant_name=Alakapuri&restaurant_location=Kakkana

Alwin

Edit this Review

Restaurant Name: Alakapuri

Restaurant Location: Kakkana

Food Rating: 3.9

Service Rating: 4.1

Ambience Rating: 4.5

Average User Price per Head: 140

Top Recommendation: Meats and payasam

Description: Odayil Restaurant. Not that neat.

Change image | Choose File | ap_1.jpg



EDIT REVIEW

09/01/2024

69

STUDENT PROFILE

CamBuzz

Noel

User Profile

127.0.0.1:5500/Frontend/User%20Profiles/studprofile.html

My Profile
My Rides
My Bookings
My Reviews
Logout

EDIT PROFILE CHANGE PASSWORD LOGOUT DELETE ACCOUNT

Noel Mathen Eldho
noelmathen
noelmathen03@gmail.com

Branch: CSBS
Division: N/A
Batch: 2023 - 2027
Phone Number: 9188022697
Gender: Male

My Rides My Bookings

My Reviews

09/01/2024

70

ORGANISATION PROFILE

The screenshot shows the 'Organisation Profile' page. At the top, there are navigation links: 'EDIT PROFILE', 'CHANGE PASSWORD', 'LOGOUT', and 'DELETE ACCOUNT'. Below this, there's a circular profile picture containing the text 'RSET Innovation' and 'IEDC'. To the right of the picture, under the heading 'Bio', is a detailed description of the IEDC's mission and support from the Kerala Startup Mission. A dark blue button labeled 'My Events' is visible. The bottom of the page features social media icons for Instagram, LinkedIn, Facebook, and a globe, along with the date '09/01/2024' and a page number '71'.

ADMIN LOGIN

The screenshot shows the 'Django administration' login page. It has two input fields: 'Username' (containing 'cambuzz') and 'Password' (containing a masked password). A 'Log in' button is at the bottom. The background is dark, and the top navigation bar shows 'Organisation Profile' and 'Log in | Django site admin'. The bottom of the page includes the date '09/01/2024' and a page number '72'.

ADMIN PANEL

The screenshot shows the Django Admin interface with a dark theme. On the left, there's a sidebar with links for 'ACCOUNTS', 'AUTH TOKEN', 'AUTHENTICATION AND AUTHORIZATION', 'EVENTHUB', 'FOODRECOMMENDATION', 'ORGANISATIONS', 'STUDENT', and 'VEHICLEPOOLING'. Each link has an 'Add' and 'Change' button. In the center, there's a 'Recent actions' sidebar listing recent user activity and organization entries. At the bottom, there are date and page navigation controls.

Site administration

WELCOME, CAMBUZZ. VIEW SITE / CHANGE PASSWORD / LOG OUT

09/01/2024 73

ACCOUNTS

Users + Add ⚡ Change

AUTH TOKEN

Tokens + Add ⚡ Change

AUTHENTICATION AND AUTHORIZATION

Groups + Add ⚡ Change

EVENTHUB

Events + Add ⚡ Change

FOODRECOMMENDATION

Recommendations + Add ⚡ Change

Restaurants + Add ⚡ Change

ORGANISATIONS

Organization registration requests + Add ⚡ Change

Organizations + Add ⚡ Change

STUDENT

Students + Add ⚡ Change

VEHICLEPOOLING

Bookings + Add ⚡ Change

Vehicle listings + Add ⚡ Change

Recent actions

My actions

- + netcine - Pending Organization registration request
- Flash House - Marine Drive Restaurant
- alvinjoseph User
- Hack Club Organization
- Irax Organization
- GDSC Organization
- IEEE Organization
- Abbyantrikhi Organization
- EDC Organization
- Noel's recommendation for Alakapuri Recommendation

THANK YOU!

Appendix II: Vision, Mission, Programme Outcomes and Course Outcomes

Vision, Mission, Programme Outcomes and Course Outcomes

Institute Vision

To evolve into a premier technological institution, moulding eminent professionals with creative minds, innovative ideas and sound practical skill, and to shape a future where technology works for the enrichment of mankind.

Institute Mission

To impart state-of-the-art knowledge to individuals in various technological disciplines and to inculcate in them a high degree of social consciousness and human values, thereby enabling them to face the challenges of life with courage and conviction.

Department Vision

To evolve into a department of excellence in information technology by the creation and exchange of knowledge through leading- edge research, innovation, and services, which will, in turn, contribute towards solving complex societal problems and thus building a peaceful and prosperous mankind.

Department Mission

To Impart high quality technical education, research training. professionalism and strong ethical values in the young minds for ensuring their productive careers in industry and academia so as to work with a commitment to the betterment of mankind.

Programme Outcomes (PO)

Engineering Graduates will be able to:

- 1. Engineering Knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- 4. Conduct investigations of complex problems:** Use research-based knowledge including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5. Modern Tool Usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9. Individual and Team work:** Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.
- 10. Communication:** Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.
- 11. Project management and finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.
- 12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

Course Outcomes (CO)

Course Outcome 1: Make use of acquired knowledge within the selected area of technology for project development.

Course Outcome 2: Identify, discuss and justify the technical aspects and design aspects of the project with a systematic approach.

Course Outcome 3: Interpret, improve and refine technical aspects for engineering projects.

Course Outcome 4: Associate with a team as an effective team player for the development of technical projects.

Course Outcome 5: Report effectively the project related activities and findings.

Mapping of Course Outcomes with Program Outcomes

CO - PO Mapping

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12
CO 1	2	1	3	2	2	1	2	3	-	-	-	2
CO 2	2	3	3	2	1	-	2	3	-	3	2	2
CO 3	1	3	2	1	1	2	2	3	-	2	3	3
CO 4	1	3	2	2	-	-	-	1	3	3	2	3
CO 5	2	-	-	-	2	-	-	2	2	3	2	3