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Venue Booking System (Web Application)

75% Final Report

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I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a marks of zero will be awarded.

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Abstract

“No matter your event, the location of your event can make a world of difference.”

Every person in the world, when holding an event, wants to make the day memorable and irreplaceable for themselves and their guests. Not only do they want to host a beautiful ceremony they also want to have access to the best venues with great deals and prices.

People in Nepal love to enjoy their happiness and joy with their big families, relatives and friends. Nepal being popularly known as an indigenous group and amalgam of more than 60 ethnic groups have myriad of festivals and ceremonies being held for one occasion or the other for generations. Today, all these festivals and ceremonies have moved from backyards to banquets and halls, given the availability of space and ease of hosting. As such, Nepali community has seen rise of the event venues and spaces, and with it people have plenty of options to choose from. This is supported by research done in Europe, America and Asia Pacific which states that the economy expects more event spaces than crops. North America expects a 2.41% increase in venue location, while Asia Pacific expects 1% increase. (Higgins, 2019)

Keeping all of the aforementioned thoughts to the mind developing an Online venue Booking system to facilitate individuals and families choose the right venue from the myriad of options, while providing operational efficiency and marketing opportunities to venue providers deems to be beneficial.

The main idea of building a web based online venue booking system is to provide venue owner with a platform to promote their location spaces. The new hall dealer can add his detail to the web application. As a member of the web portal, the venue details can be modified and updated as his will. As far as customers are concerned, the system will help reduce the effort. The system provides searching facilities based on location, number of accommodation and price. Instead of visiting any of the venue available in the city people can check details of venues available within their range with the web application.

Therefore, this system will be designed to help people find their perfect venue spot with minimal effort and time in the future.

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1. Chapter 1: Introduction

1.1. Project Description

Over time with the evolution of internet and technology, running a business has significantly changed. The traditional method of agreeing the deal, jotting down the contract and signing the papers has been effectively converted to digitally clicking of the button and agreeing the conventions. Internet has helped change and advance in many fields of business and services. Amongst many industries, internet-based booking platform for venue has grown tremendously.

Online booking system, at its basic is a software that allows customer to reserve and pay for activities or services directly through a website. It allows the customer to book, choose preferred date of booking, method of payment etc. The system also significantly reduces the workload of the customer by minimizing the manual work of visiting the venue for booking purposes. Furthermore, the system not only helps the user(customers), it also allows the staffs to effectively decrease paperwork and manage their space well. Therefore, with the rapid use of internet-based booking system, the venue industries have been recognized as one of the most profitable industries in many countries.

In the case of absentees of the booking system, for example, if the user wants to book a wedding venue, the first task of the user is to visit the owner of the wedding hall, then he would have to discuss the price ranges and services offered by the hall. The final task would be negotiating the deal for booking the hall. The manual tasks mentioned above, which would be time consuming, are absolutely uprooted by the simple application of the booking system. (Ghule et al., 2019) (Johnston, 2020)

The main objective of the venue booking systems will be therefore to provide a platform to allow hosts to reserve a venue for functions, parties, weddings etc. whenever user find available and preferable venues and dates.

With the well development of this application, users within Nepal will be able to easily reserve the preferred venue for the event among lists of venues without prior visits to different venues. While in case for the venue managers, this application would be helpful to manage their venue with minimal effort as well as promote their business at an agreeable cost.

1.2. Current Scenario

It is a known fact that Nepal is an amalgam of more than 60 ethnic groups, and therefore Nepalese have a lot of extravagant festivals and celebrations connected to the diverse religion, tradition and social events. In recent years, however, this culture of celebration can be seen growing to a point where we can say that Nepalese have started to over-celebrate life events, with over the top celebrations that are more extravagant than the next public events of previously be privately celebrations. (Lonely Planet, 2017)

The celebration of Teej for this year- one of the most important festivals for Hindu women-can be cited as a prime example of this growing trend. Previously considered a one-day affair, this year women of various age groups and ethnicities were found gathered in banquets and halls to eat Dar- a meal consumed by women a day before the day of Teej, weeks before the given day. (Bajracharya & Ghimire, 2017)

Similarly, Nepalese have found many other traditions and celebrations, including Christmas, Bridal Shower, Baby Shower, Bachelor/bachelorette Parties, Birthdays, Anniversaries, to celebrate as a public affair like never before. In all of this, the demand for the public event venues has increased dramatically. It can be seen that restaurants, banquet halls and other party palaces have started to provide event management services to cater to the growing demands for hassle- free celebrations.

1.3. Problem Domain and Project as Solution

The event venues in Nepal, are growing every day, each providing a different value than the rest to match with the demands of the customers. However, due to lack of proper marketing and publicity for such event venues on online platforms, customers still primarily depend on the recommendations provided by a close friend/family or Word of Mouth marketing. However, most venues still operate with manual booking/reservation systems, which is riddled with following problems:

- Physical recording of paper works is not consistent as entry of wrong information may occur during writing manually.
- Major time and labour are required during visiting of venues physically.
- Collecting payment may be difficult.
- Inaccuracy of records.

In context of the aforementioned growing trend and popularity and posing problems of Event Venues and the gap within the trend, I believe that a web-based program that pools the information of all the venues that provides event management services in Kathmandu, in the beginning and can be expanded to Nepal in later phase, that allows customers to choose among the selection a right fit for their needs can solve the problem.

The world is online. The whole world is using the internet to discover everything they need to know. As a result, online booking system has also made its must-have necessity for every platform. Lacking on the online presence, every business firms are sure to miss out great resources and opportunities. Without the aid of online booking system, the client has to rely on phone calls and walk-ins to make reservations. (Asenova, 2018) (Siguencia et al., 2018)

The existing online booking system for different platforms has given clients the freedom to choose and reserve places and things according to their preferences. Further, it has helped maximize the sales of the dealers and not limiting their working hours which has helped them provide better services and amenities to their customers. For example, in case of hotel bookings, studies show that a 24/7 online booking system greatly increased the number of booking for the hotel.

Therefore, an online reservation platform for Event Venues is the best next step in building their future.

1.4. Aims and Objectives

1.4.1. Aims

The main aim of the project are as follows:

- To build a web-based platform that allows pooling of the customers and the service providers, Event Venues, so as to facilitate easy and dependable access to required information and service. On the customer's side, they can see all potential Event Venues in one place and compare them to each other to find the best fit for their event. On the service side, the provider will have a marketing platform to improve public visibility and reach a larger number of customers without having to spend money on the design of individual websites.

1.4.2. Objectives

The major objectives of the project are as follows:

- Allow Event Venue Dealer to add their venue details to the application and promote their business.
- Digitally record the information of the customer who had booked the venue for individual venues.
- Customer will be able to search preferable venue according to location, number of accommodations, and price.
- Customer can view details of the venue and can easily book the venue for particular day if available.
- Monitor the services by incoming feedbacks given by the customers.
- Data analytics for admin panel to extract information through prevailing data.

1.5. Structure of the Report

1.5.1. Background

Background of the project consists of discussion of an overall research about the topic. It includes introduction to the end user of the product formed. Research and study on similar system is also done along with comparison of their features with our system to be developed

1.5.2. Development

This topic includes subtopics, System Architecture, Methodology considered and chosen for the completion of the project and different UML diagrams designed. System Architecture defines the structure and behaviour that the system would follow. Different methodologies were considered however only one was to be implemented in this project. This chapter includes Requirement analysis and UML diagrams such as Use case, DFD Diagrams, Sequence and communication diagrams. Further, it includes Normalization method and Wireframes for the system. Screenshots of development of core features and architectures are also included in this topic.

1.5.3. Testing and analysis

This Chapter includes discussion of test plans: Unit testing and system testing. Finally, it also includes critical analysis of the whole system.

1.5.4. Conclusion

To end the project the conclusion includes important discussion of legal, social and ethical issues that may be faced by the system. The advantages and limitations of the system are discussed, and further possible works are also deliberated.

2. Chapter 2: Background

2.1. About the End Users ([Appendix A: Pre-survey](#))

Through the survey conducted among the students and general people, we can assume many people has heard of online venue booking web application like hotel booking application but not particularly for an event venue booking. It is confirmed that people attend event at least once a year and to hold any kind of event would most likely visit the venue first in person. Hence, if we could provide all the important details of the venue, we could effectively reduce the necessity of visiting the venue before the event. Along with booking of the venue people seems to be willing to send an invitation online. They want real reviews of the venue and would be interested in trying the application in near future.

Although the survey does not show opinions of every people in the county, I believe that integration of online booking and online invitation in the project would be successful and be useful for managing important functions of people.

2.2. Understanding the Solutions

Usually, when deciding and booking a venue, the customer has to call the reception desk or the owner of the venue to fix the booking for a day, or the customer has to visit the venue and decide. Major time and labour are consumed during this process. Hence, with the help of the online booking system, people can simply search the venue and book the venue for specific day if available.

Possible solution of the proposed venue online booking are as follows.

S.No.	SOLUTIONS	DESCRIPTION
1	Computerizing the system.	The existing system, where people manually store the data of the venue will be uprooted. The system would be computerized. Advantages of computerizing the system are: <ul style="list-style-type: none"> • Better management of system. • Highly accessible for customers. • Low wastage of funds and money on papers and manpower. • Avoid chaos in registering new customers. Customers can directly register and login to the system. • All details of the venue will be available within a single system.
2.	24 Hours accessible	With online venue booking system, the system will be available to customer anywhere and at any time.
3.	Records of available venues	Venue owner can register their venue through the system. Customers can easily view the available venues and search for appropriate and suitable venue for their day.
4.	Collection of payment	With the feature of online payment, venue owner can easily collect the payment online.

Table 1: Possible solution of the proposed venue online booking.

Dealer side:

The dealer will sign up and fill up a registration form, he then proceeds to fill their venue detail form to add their venues to the system. He/she is able to manipulate the data and information of the venue whenever required. Further when any booking is done, he/she is able to view the booking details which include customer details along with the date of reservation. The venue owner is also able to see the feedbacks received from the customer on their services, if available.

Customer Side:

The customer requires to book the venue by signing up in the system. The customer fills up the necessary details through the registration form and logs in to the system. He/she is able to search or view for desired venue based on to their location, accommodation number and prices. While booking for the venue, if it is not available for the chosen date, the system will inform that the location is not available for chosen date and ends the process. The customer is able to pay on site through online payment. Furthermore, if the customer wishes to send an invitation e-mail to the invitees, he/she will be able to send the e-mail via the interface provided in the system, which enables the invitation to be sent via their e-mail to the invitees.

2.3. Technical Aspects

2.3.1. Platform

- **Web:**

Development of Web application is the process of creating a dynamic website combined with server-side programming. The server-side programming delivers functionalities such as interacting with users, connecting to back-end databases, and generating the output to the browsers. There are two main categories of coding, scripting and programming for creating

Web Applications, the Client-Side Scripting/Coding and Server-Side Scripting/Coding. The Client-Side Scripting/Coding includes Scripting technologies like HTML, CSS, JavaScript. The Server-Side Scripting/Coding includes technologies like PHP, Python, ASP.NET etc. (Bernard, 2019)

2.3.2. Programming Language

- **Python:**

Python is a general-purpose high-level programming language which allows to focus on core functionality of the application by taking care of common programming tasks. It is used for web development (server side), software development, system scripting. (w3School, 2020)

2.3.3. Framework

- **Django:**

Django framework of Python will be used for the development of the project. Django is one of the famous and popular frameworks for the development of web application. It is an open-source framework for backend web application based on Python. Django follows MVC (Model-View-Controller) or MVT (Model-View-Template). The architecture separates the input, processing and output of an application.

The framework works with most major database. Hence, it would work well with MySQL and would be suitable any size of project. (Django Stars, 2019)

2.3.4. Web Server

- **XAMPP:**

XAMPP acts as a web server for managing database. This server is configured with all features required for the Apache Web server. It also provides services such as MySQL database (actually MariaDB), PHP and Perl. (Apache Friends, 2019)

2.3.5. Database

- **MySQL:**

MySQL is a Structured Query Language based on relational database management system (RDBMS) supported by Oracle. (Apache Friends, 2019) It is a free and open source. It provides high data security and high performances.

2.3.6. Wireframe

- **Balsamiq Cloud:**

Balsamiq Cloud is a web-based user interface design tool used for designing mock-ups or wireframes. It provides an easy drag and drop facilities with multiple diagrams and structures to build wireframes. (balsamiq, 2020)

2.3.7. Logical Design

- **draw.io:**

draw.io is a free diagramming application that allows users to create and share diagrams within a web browser. It provides a simple interface that helps users to create variety of diagrams including flowcharts, ER diagrams, UML and more. draw.io also provides functionality that allows users to track and restore changes, import and export various formats, and automatically publish and share work. (getApp, 2020)

2.3.8. IDE

- **Visual Studio Code:**

Visual Studio Code is a lightweight but powerful source code editor that runs on the desktop and is available for Windows, MacOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtime (such as .NET and Unity).

Moreover, it has multiple extensions such as enable languages, themes, debuggers, and commands which provides easy and efficient environment for writing code. (Microsoft, 2020)

2.4. Similar Projects

Venue management system is one of the fundamental systems for operation of buildings such as halls, conference rooms etc. Some of the popular mobile and web application for venue booking and management system along with their comparison are as follows:

Software	Devices Supported	Business Size	Prominent Features
MeetingPackage	Web-Based	SM, Freelancer	Booking Management, Catering Management, Customer CRM, Event Management, Reports, Sales Management, Staffing Management, User Management
Skedda	Windows, Mac, Linux, Android, iPhone/iPad, Web-based	SML	Advanced Scheduling, Booking Engine, Booking Management, Calendar Management, Online Reservations, Reservations Channels, Service & Support
Function Tracker	Windows, Mac	SM	Multi-Track Events, Manage Event Workflows, Reporting and analytics, Registration Integration, Survey Reporting, Search Venues, Support & Training, Custom Branding, Mobile Event App
ThunderTix	Windows, Mac, Linux, Android, iPhone/iPad, web-based	SML	Branding Control, Customer Portal, Event Marketing, Event Ticketing, Membership Management, Mobile Ticketing, Online Ticketing, Patron Management, Payment Processing, seating Management
Omnify	Windows, Mac, Web-based	SML	Built-in marketing tools, Central database, Multi-Store Management, Promotions Management, Shipping Management, Booking Management, Catering Management, Customer CRM, Event Management, Reports, Reservations Management
Priava	Web-based	SML	Multi-Track Events, Manage Event Workflows, Reporting and Analytics, Travel Management, Registration Integration, Survey Reporting, Search Venues, Support & Training, Conferences/Conventions, Volunteer Management, Custom Branding, Mobile Event App
Planning Pod	Windows, Web-based	SML	Travel Management, Registration Integration, Survey Reporting, Search Venues, Support & Training, Conferences/Conventions, Volunteer Management, Custom Branding, Mobile Event App

Figure 1: Similar Systems.

2.4.1. Zafaf.net

The screenshot shows the Zafaf.net website interface for Cairo Wedding Venues. At the top, there's a navigation bar with links for "Wedding venues" and "Wedding vendors", a search bar, and language options ("English", "العربية") and a "Vendor Login" button. Below the header, a breadcrumb trail shows "Home > Wedding Venues > Cairo". The main title "Cairo Wedding Venues" is displayed prominently. A sub-instruction below it reads: "Get to know all the wedding venues in Cairo, in Hotels , restaurants or clubs, also the spaces in gardens and by the sea . just pick a type to be able to contact them and get the details and prices quotas." Below this, there are several filters: "Cairo" (dropdown), "Wedding Venues" (dropdown), and "290 Venues" (text input). To the right of these are icons for a grid view and a location pin.

The main content area displays eight cards, each representing a wedding venue:

- Rainbow Villa for Wedding & Events**: VIP status, 2 reviews. View / Price Request >
- Concorde El Salam Hotel Cairo**: VIP status. View / Price Request >
- Free Bird Villa**: VIP status. View / Price Request >
- Horizon Shahrazad Hotel**: View / Price Request >
- El Saray Wedding Hall**: View / Price Request >
- Hor Moheb Hotel**: View / Price Request >
- Hotel Barcelo Pyramid**: View / Price Request >
- Le Méridien Heliopolis**: View / Price Request >

Figure 2: Zafaf.net

- **Analysis:**

Zafaf.net is an online web platform, that allows clients connect to wedding halls. The major goal of the site is to connect halls with customers and provide dealer a sustainable online presence. They have a photo gallery showing a detailed view of halls in all main cities of KSA. They provide facility to search wedding halls by city, price limitation and capacity. This helps clients to easily search for their preferable halls.

2.4.2. Skeda:



The screenshot shows the Skeda homepage with a dark blue header featuring the Skeda logo, navigation links (Home, Features, Integrations, Examples, Pricing, More, Log In, SIGN UP FREE), and a 'CREATE YOUR FREE ACCOUNT' button.

Free online booking and scheduling for your venue

Trusted by thousands of venues around the world, Skeda is the smartest way to manage your desks.

Two devices are displayed: a smartphone showing a list of booking requests and a tablet showing a detailed booking calendar with various time slots and resource icons.

VENUE TYPES

- Meeting rooms
- Sports venues
- Professional studios
- Coworking spaces
- Classrooms and labs
- Community facilities

Feature-rich, yet elegant

Skeda takes the hassle out of managing your space. If you're looking to reduce administration and increase usage, we can help!

- Share the up-to-date availability of your spaces on every device.
- Invite and empower users to make frictionless self-service bookings.
- Enforce your policies (e.g. quotas, cancellation rates, advance-notice rules).
- Control how users interact with the system with custom user logic.
- Automate any pricing and accept secure online payments (PCI/PSD2/SCA compliant).
- Integrate with your other systems and tools.
- Login with existing accounts (Microsoft, Google, Facebook, Twitter).

[TOUR SKEDA FEATURES](#)

Figure 3: Skeda Booking Calendar.

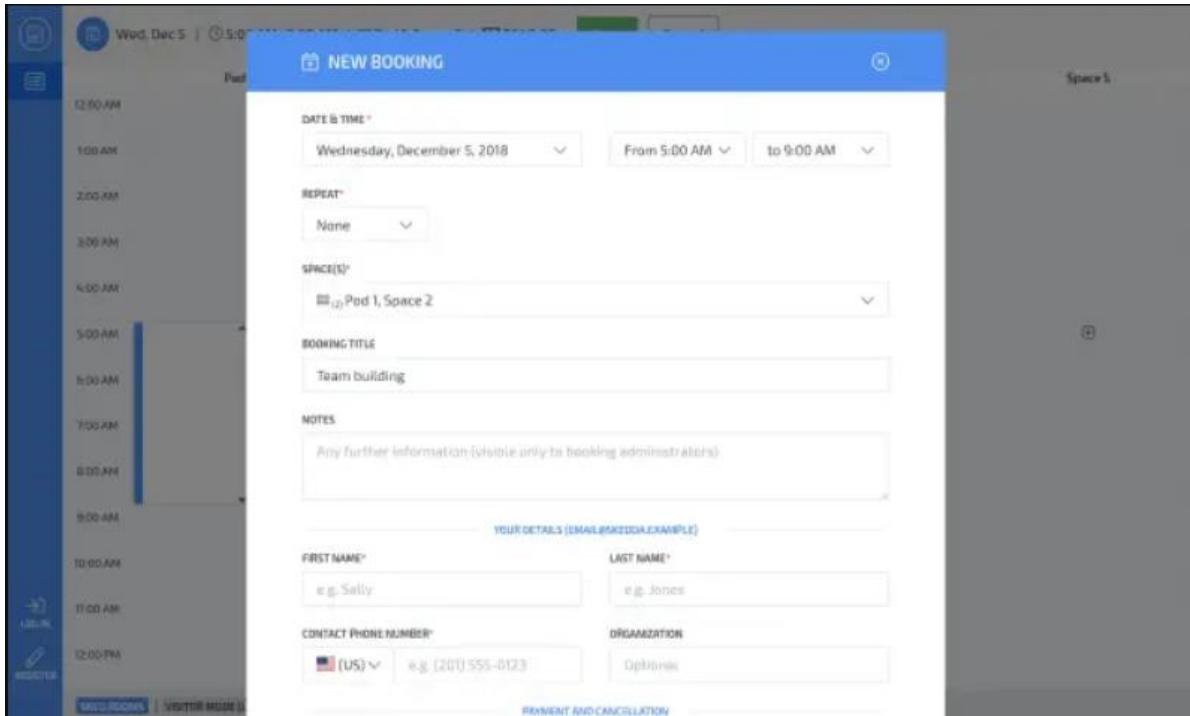


Figure 4: Skedda: Online Booking.

- **Analysis:**

Skedda is a management software that allows thousands of venues to serve online booking and scheduling facility to their clients. The software provides pricing, booking conditions and maintain calendar to provide appropriate date of reservation. The highlight of the application is: booking calendar, online booking, payment gateway integration, create bill and invoices, customer management. etc. (GoodFirms, 2020) (Skedda, 2020)

2.4.3. Eventbrite

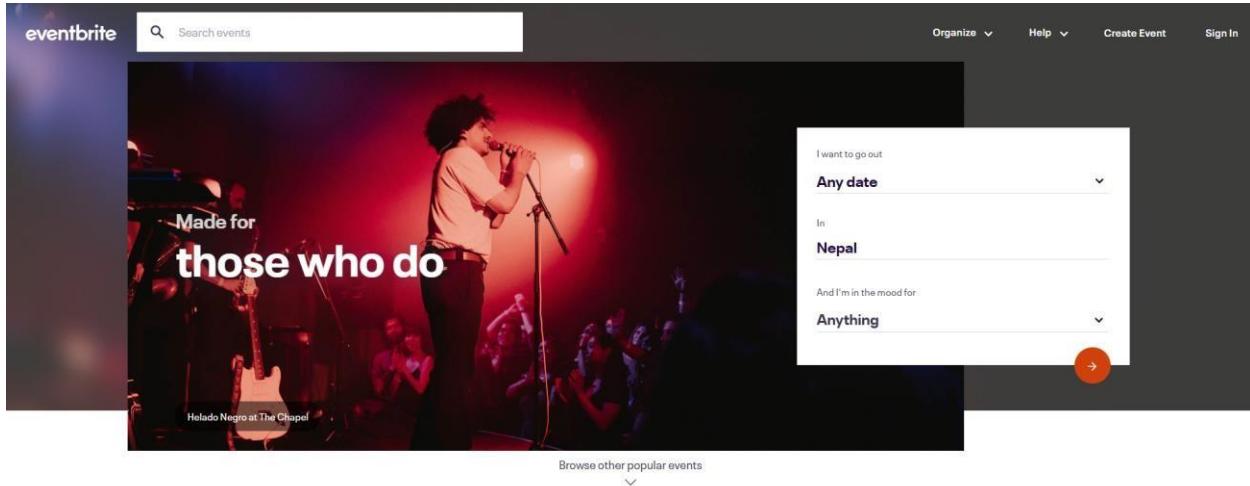


Figure 5: Eventbrite.

- **Analysis:**

Eventbrite is an online event-booking and planning site. The page allows user to create an event page, register attendees, track attendance, and sell tickets for the event. The web app helps to promote the event of the event holder and clearly manage the event. The major feature of Eventbrite are as follows:

- Automated reminders
- Dashboard
- Custom Venue maps
- Event dashboard
- Event promotion
- Event registration and ticketing
- Online Payment
- Speakers profile

2.4.4. Booking.com

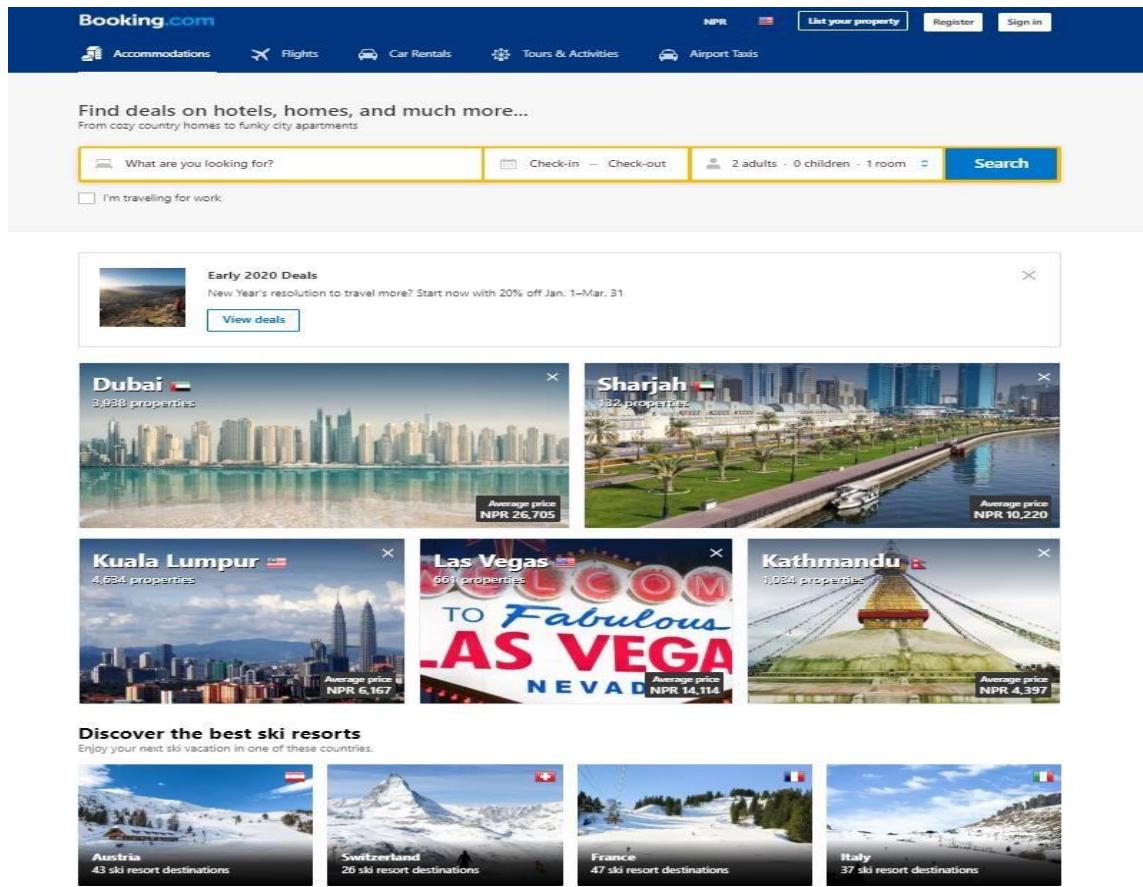


Figure 6: Booking.com: Landing Page.

The screenshot shows the Booking.com website interface for a search in Rio de Janeiro. The top navigation bar includes links for Accommodations, Flights, Car Rentals, Tours & Activities, and Airport Taxis. The main search results page displays a yellow search bar with 'Rio de Janeiro' as the destination and a date range from January 5 to February 29, 2020. To the right, a map view is available. The search results show 2,782 properties found, with filters for Nearby Beaches (Leblon, Ipanema, Leme Beach) and sorting options like Our Top Picks, Show homes first, Price (lowest first), Stars, Star rating and price, and Distance From Downtown. Two specific listings are highlighted: 'Sugar Loft Apartments' (Condo Hotel, 9.1 rating, Wonderful) and 'Altos de Santa Teresa Guest House' (Very Good, 8.2 rating). Both listings include reviews, distances from the center, and booking details.

Figure 7: Figure 7: Booking.com page.

- **Analysis:**

Booking.com is one of the most popular website and mobile app available in 40 different language that allows reservation of more than 1,555,000 hotel rooms worldwide. The major plus point is the software provide user with effective filtering options and help select a room from more than 28,618,191 across the world. At booking.com, travelers can access to a large selection of places to stay, which includes apartments, vacations, homes, 5-stars luxury resorts etc. Along with providing useful management functions, the app is also providing user-friendly and a powerful user interface.

Further, the application, establishes contracts with the hotels listed on the platform and takes certain commission on each booking through the page. Finally, the page also provides administrator's tools, analytical tools and dashboards for accommodation providers that help them flourish their business. (Siguencia et al., 2018)

2.5. Comparison of similar system with our system

Features	Our System	Booking.com	Eventbrite	Skedda
Listing Venue to the web site	Yes	Yes	Yes	Yes
Make Online Booking	Yes	Yes	Yes (Event)	Yes
Search venue by location	Yes	Yes	Yes	No
Online Payment	Yes	Yes	Yes	Yes
Customer Feedback	Yes	Yes	No	Yes
Online Invitation	Yes	No	No	No

Table 2: Comparison of similar system with our system.

3. Chapter 3: Development

3.1. Considered Methodology

3.1.1. Agile (Scrum) Methodology

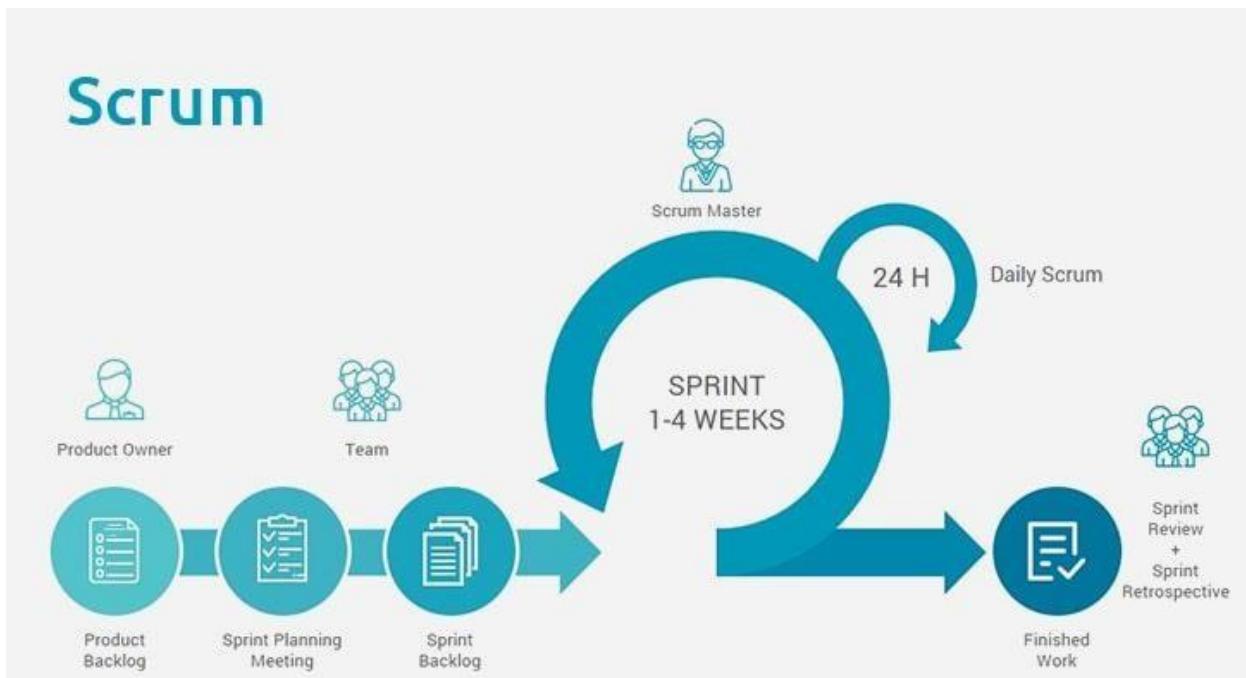


Figure 8: Agile Methodology (Scrum).

The first methodology considered for the project was Agile Methodology. According to review by Version One, 94% of organizations are already practicing agile in some form. Among many, Scrum is one of the most popular agile project management methodology. The methodology mainly focuses on identifying key features and helps to set goal at the start of each sprints.

The reason for considering this methodology are as follows:

- **Flexibility and adaptability:**

Defining the requirement and design for different modules in the project is relatively a difficult task. Agile methodology is believed to be best suited for uncertain environment.

It provides flexibility and adaptability to define and elaborate requirement and design as the project is in progress.

- **Lower costs:**

Scrum ensures effective use of time. It being an agile methodology, accepts feedbacks and enables changes in requirements and designs according to the feedback. This allows reduction of unnecessary documentation and control requirements.

- **Quality:**

In regular sprints, development is coded and tested. This ensures quality and make necessary adjustment to the project.

Reasons for not choosing Agile (Scrum) Methodology:

- It requires a **team environment**:
- Agile methodology heavily considers teamwork. It would be difficult to implement Scrum methodology for one-man project.
- The chances of project failure are high due to **lack of defined end- date**. (Regoli , 2019) (Chandana, 2019) (Cobb, 2019)

3.1.2. Waterfall Model

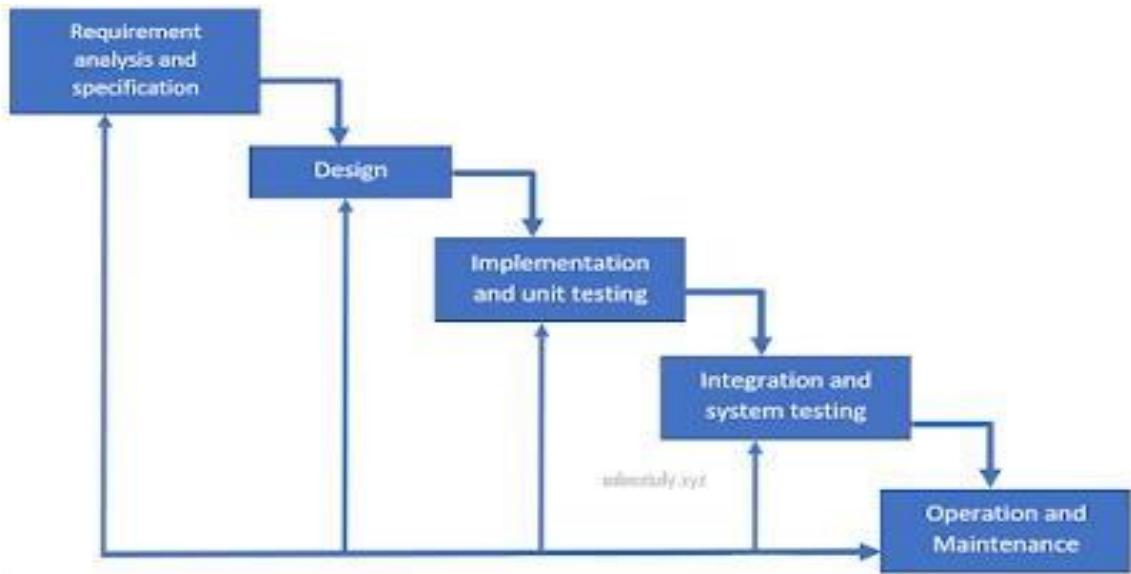


Figure 9: Waterfall Model.

Waterfall model is considered as a straightforward methodology which mainly emphasized that logical progression of steps be taken through the software development life cycle. It adopts a step-by-step nature which is simple and easy to understand and use.

The following are the reason for considering the methodology:

- Requirement gathering and analysis:
- Every requirement is clearly defined which helps to arrange tasks,
- Proper documentation ad well understood milestones:
- The process and documentation are clearly documented which helps to confirm quality of the project. With the completion of certain task milestones are considered. Hence, each stage consists of deliverables.
- Works well for smaller projects and easy to understand and use.

Reasons for not choosing Waterfall Model:

- Turning back to other phases is not possible in this model. It cannot accommodate changing requirements.
- Delayed Testing Period:
- Testing is not done until quite late into the life cycle of this model. Bugs and errors are not discovered until late into the process. Hence, may lead to failure of the project. (tutorialspoint, 2019) (Morse, 2016)

3.1.3. Prototype Model

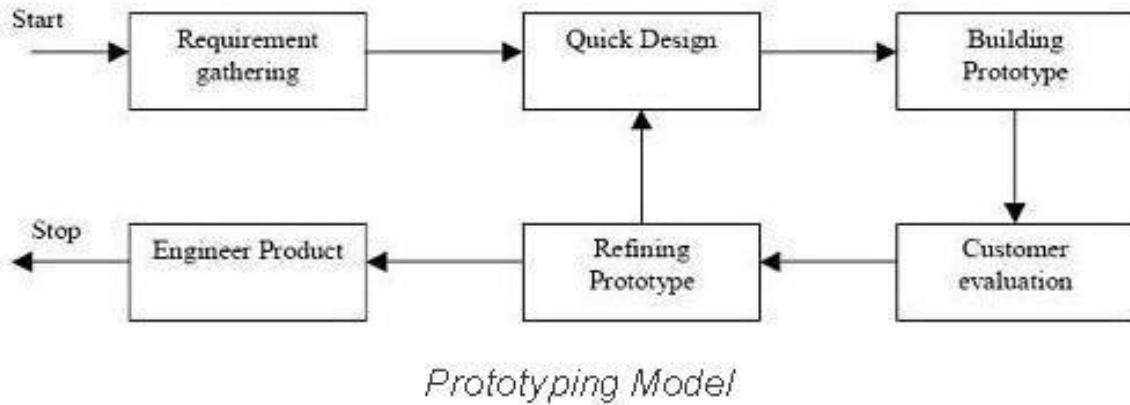


Figure 10: Prototype Model.

Prototype model is a software development model which believes in providing a surface overview of the final product before designing and developing the actual software. The prototype is developed based on currently known requirement from the client. The model is ideal when requirements are not fixed.

The following are the reasons why Prototype Model was considered:

- Following Prototype model would allow to visualize the end product of the system which would help to get quicker feedback for the actual development of the software.
- Missing functionality could be easily identified.
- Designs could be easily fixed and changed.

Reasons for not choosing Prototype:

- The project has a deadline, therefore changing requirement could cause failure to development of the project.
- The model is usually implemented with project involving client, the final year project does not include any client. (TRYQA, 2013)

3.2. Selected Methodology

3.2.1. USDP

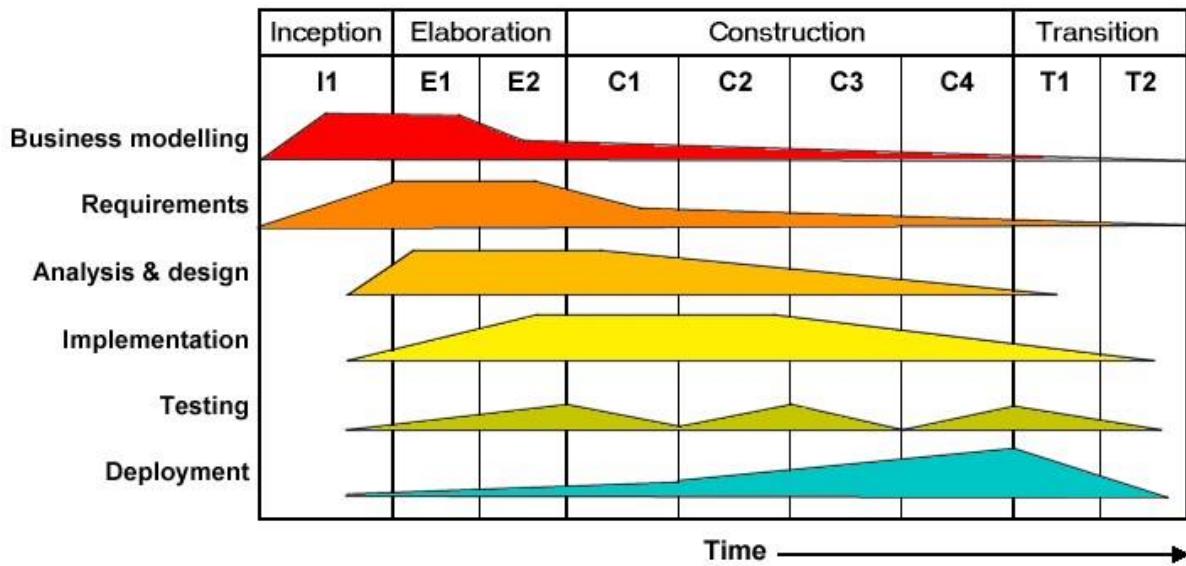


Figure 11: Lifecycle of USDP Model.

Unified Software Development process also known as Agile Unified Process is an incremental software development process. The process includes four phases: Inception, Elaboration, Construction and Transition. In the initial stage called **Inception**, various scopes and objectives of the project is discussed. The phase would help recognize risks and also lays down both aims and objectives of the project. The **Elaboration** stage is the next stage that includes introduction of basic design of the system. The use case model developed in this phase would help capture functional requirements of the system and other conceptual diagrams would allow to plan the project for construction phase. After the process of collecting requirements, reviewing specification and designing the system, the software is to be developed. The primary goal of the

Construction phase consists of series of short iteration, each resulting in software release. The test such as unit testing, integration testing etc. are also conducted and reviewed. Finally, at the **Transition** phase the application is deployed. The software is maintained and finally submitted. (TechnologyUK, 2019) (Scott, 2019)

The following are the reason to follow the USDP Model:

- The USDP Model allows iteration of the requirement. Each iteration could bring new outcome in case of unsatisfactory.
- The incremental approach of the methodology will allow us to break down the project into small and fruitful modules, which will help to build functional and distinctive features in every small phase.
- The methodology is considered as simple and clear process that fits small development teams.
- In order to complete the project, the developer can contribute reduced integration time and effort. (Maja, 2019)

3.3. Phases of Methodology

The methodology: USDP is categorized into four major phases: Inception, Elaboration, Construction and Transition. These stages basically involve business modelling, analysis and design, implementation, testing and deployment. The methodology offers a structured and systematic way to organize the development of software programs. It provides a specific plan for each steps of the development process and helps avoid resources from being wasted which reduces unexpected development costs. (TechTerm, 2020)

Following are the detailed explanation of the major stages of the methodology:

3.3.1. Inception

In this stage, the proposed system is evaluated and critically analysed and decide whether the system can be completed in the limited time amount of not. It is decided if the system can help uproot and address the problem faced by the event hosts and venue owner in present context.

To know the feasibility of the project, various meeting and surveys with the supervisor and general audience was conducted. The problems prevailing in the community regarding booking the venue was collected through surveys which included suitable questionnaire.

Through the survey conducted various features for the system were decided and finalized. At the end of this phase, the project for the development was finalized and plans for the development were set.

3.3.2. Elaboration

After the initial finalization of the project proposed the first step was to critically analyse all the listed features of the project. Methodology to be followed was finalized which provided a systematic way to organize the program. Gantt chart was created which would further help us to manage time for particular feature development at a time which would slowly help in increment of the development process.

Various UML diagram which included Use Case diagrams, High level user case diagrams, Sequence diagrams, Collaboration diagrams, and Data Flow diagram were designed. Moreover, after the completion of UML diagrams, initial wireframes were created to visualize the end product of the system to be created.

This phase of methodology included designing and analysis of the project proposed. It specifically helped me to visualize the project and work on the development of system efficiently.

3.3.3. Construction

The Construction phase of the methodology involves implementation of the resources and requirement justified in the inception and elaboration phases. Each feature of the project is clarified and are divided into multiple modules so as to increment the project. This method allowed me to focus on a single task instead of taking part in a number of tasks.

The following modules were created for the project:

Module 1: Database design and ER-diagram implementation.

Module 2: User registration and role separation.

Module 3: Login Authorization.

Module 4: Landing Page for the system.

Module 5: Add Venue Feature for user role: Dealer.

Module 5: Listing Venue to the landing page of the system.

Module 6: Adding Update and Delete Button for the Venue Details.

Module 6: Implement Search algorithm to the system.

Module 7: Implement form to book the venue.

Module 8: Method to check the availability of venue for the chosen date.

Module 9: Implement Error and Success alert to the system.

Module 10: Add Send Feedback button and form creation.

Module 11: Dealer side page to view received booking details and feedbacks from customer.

Module 12: Implementation of Send Invitation Feature for the logged in customers.

Module 13: Configuring project for Gmail SMTP Server.

Module 14: Implement Khalti Payment gateway to the system.

Module 15: Implement Admin Panel to the project.

3.3.4. Transition

After the construction phase, the system is tested to ensure its quality and correctness. This phase is called the Transition phase. After each module development, each module is tested using a unit testing method. System testing was performed later on the completion of the system as a whole. More detail on Testing is given below.

3.4. System Architecture

The following figure shows the architecture of the system.

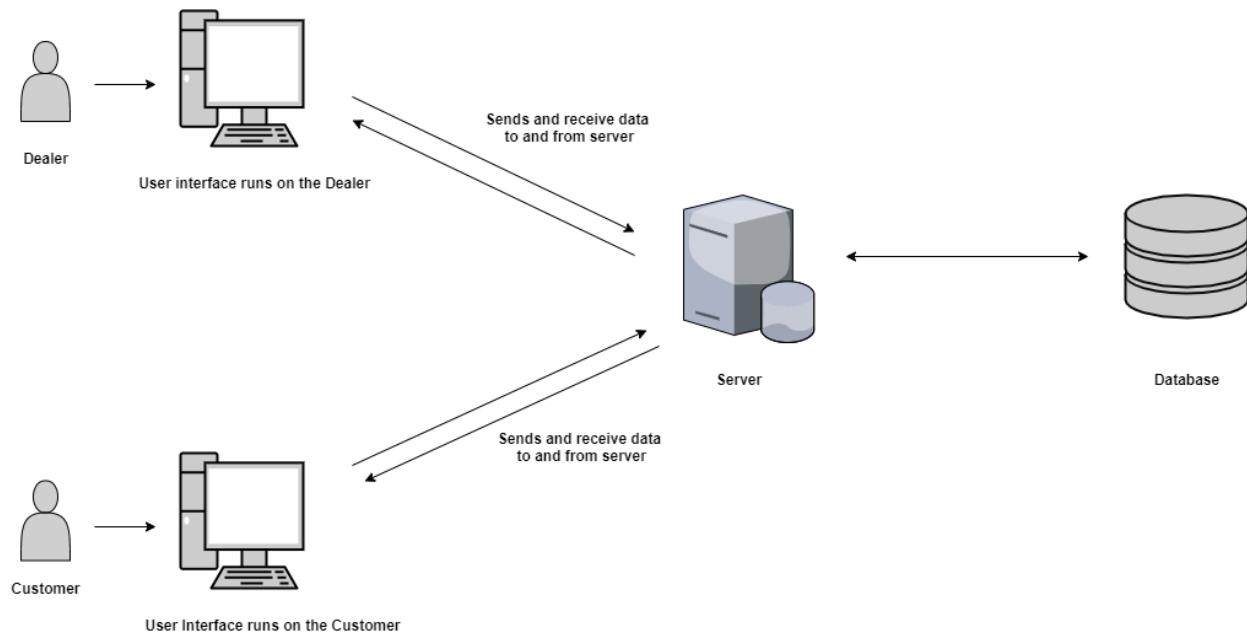


Figure 12: System Architecture.

3.5. Survey Result

3.5.1. Pre-Survey Result

Pre-Survey is taken to get an initial insight of how end-user of the system would think and consider the proposed idea for the project prior to system implementation. It helps us to finalize and ensure all the functionality and design of the system to be developed. Moreover, the responses provided some important benefits and improvement to be brought to the system to be developed.

The participants' response is used to determine if the proposed system would be reliable, accurate or efficient. The summary of responses to full questionnaire can be obtained in Appendix: ([Appendix A: Pre-survey](#))

3.5.2. Post-Survey Result

Post survey is taken subsequently using the application by the end-user. This survey helps in evaluating the effectiveness of every features and functionality of the system. The questionnaires and responses collected is provided in the appendix: ([Appendix B: Post-Survey](#))

3.6. Requirement Analysis

3.6.1. Introduction

The main purpose of this sub-chapter is to provide a generalization of the overall features and functionalities of the project. It also provides an insight into the working principle of the system.

3.6.2. Intended Audience and Reading Suggestion

The document is mostly intended for developers, system testers and end users (dealers of event venues or customers of such venues) who may be involved in the using the application.

This document consists of a breakdown of all working features, the required components and the operating environment. It can therefore be seen as a basis for the development procedure that helps us to visualize the overall system.

3.6.3. Project Scope

The major scopes of the project are given below:

- Event venue management platform, where dealer is able to add, edit and delete their venue information.
- Digitally record the information of the customer who had booked the venue for individual venues.
- Facility for user be able to search preferable venue according to location, number of accommodations, and price.
- Monitor the services by incoming feedbacks given by the customers.
- Data analytics for admin panel to extract information through prevailing data.

3.6.4. Project Features

Following are the features of the project:

- Database:
The application will consist of database to store all the important information.
- Event Venue management:
The Dealer of the venue will be able add, edit and delete the venue details. Also, he/she is able to view the booking details if available.
- Venue Browsing:
The user will be able to view venue details and search venue according to the location, number of accommodation and prices.
- Booking the Venue:
The customer will book the venue for a day.
- Feedback:
The customer will be able to provide feedbacks to the venue and venue owner is able to view all the feedbacks received to improve their services.
- Online Invitation via mail:
If the customer wish to send invitation for their events through mail, the system will provide an interface to send mail to their invitees.

3.6.5. User classes and characteristics

This project mainly consists of four classes: The dealer, the customer, the admin and the developer.

3.6.5.1. Dealer:

- Add, Edit and Delete Venue Details.
- View booking date and details of the venue.
- Receive feedbacks and act accordingly.

3.6.5.2. Customer:

- Browse Venues Available.
- Search and filter venue according to their location, price and accommodation number.
- Book Venue for the day.
- Send feedback to the venue owner.
- Send invitation to invitees through mail.

3.6.5.3. Admin:

- Get lists of users and venue information.

3.6.5.4. Developers:

- Develop the system.
- Manage database.
- Make necessary changes according to requirements.

3.6.6. Operational environment

The project will be a web-based application. The application will be based on Django Framework. It is one of the most popular free and open Python-based web frameworks that follows model-template-view (MTV) architectural pattern. As such various internal libraries and modules Django will be utilized in this project.

For the database management, MySQL will be used.

3.6.7. Functional Requirements

Following are the functional requirement of the project.

3.6.7.1. User Login

S.No	Description	User Involved
1.	The system must provide means to authenticate and authorize user of the system	Admin, Dealer, Customer

Table 3: Functional Requirement 1.

3.6.7.2. Venue Management

S.No	Description	User Involved
1.	Only authorized dealer will be able to add, delete and edit the venue details	Dealer

Table 4: Functional Requirement 2.

3.6.7.3. View Venue

S.No	Description	User Involved
2.	User will be able to browse existing venue. User can search venue according to location, price and accommodation number.	Dealer, Customer, Admin

Table 5: Functional Requirement 3.

3.6.7.4. Venue Feedbacks

S.No	Description	User Involved
1.	User will be able to browse existing venue. User can search venue according to location, price and accommodation number.	Dealer, Customer
2.	Dealer of venue will be able to view the feedback provided by customers.	

Table 6: Functional Requirement 4.

3.6.7.5. Venue Booking

S.No	Description	User Involved
1.	Authenticated customer will be able to book the venue for a particular day. He/she would not be allowed to book if the venue is already booked for the day.	Dealer, Customer
2.	Venue Owner will be able view the date the venue has been booked.	

Table 7: Functional Requirement 5.

3.6.7.6. Send Invitation

S.No	Description	User Involved
1.	Authenticated Customer will be able to send invitation via mail to multiple invitees	Customer

Table 8: Functional Requirement 6.

3.6.8. Non-Functional Requirements

S.No	Description	User Involved
1.	All the mentioned functionalities should be properly working.	Developer.
2.	The system should not crash.	
3.	The UI designs should be properly designed.	

Table 9: Non-functional Requirements.

3.7. Design

3.7.1. Use case



Figure 13: Use Case.

3.7.2. Expanded Use Case

3.7.2.1. User Registration

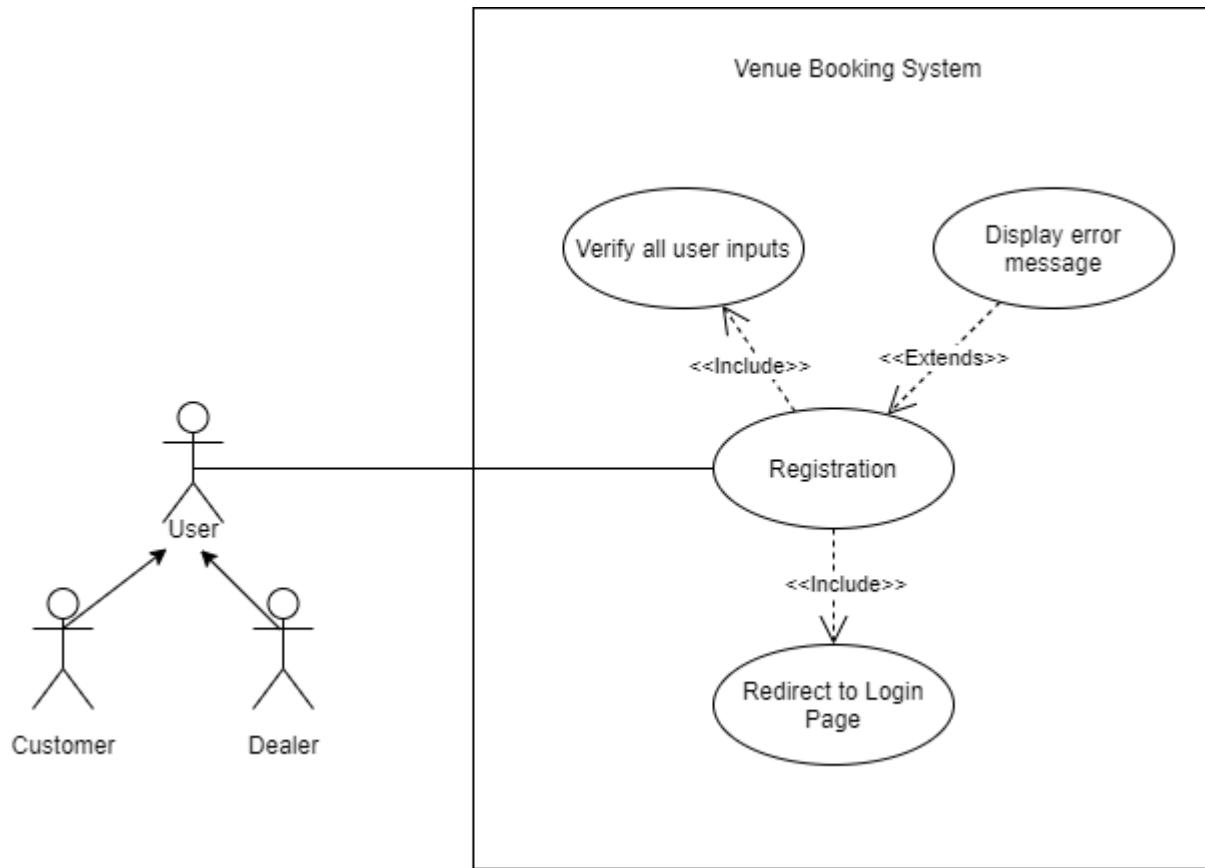


Figure 14: Use Case: User Registration.

Use Case: Registration

Actor: Customer(initiator), Dealer (initiator), System

Description: The customer or dealer inserts necessary fields to register himself/herself to the application.

Typical course of events:

As Customer:

Customer Action	System Response
1. The customer uses on-screen registration form to insert personal details including username and password to use for login.	
2. Clicks on Register button.	
	3. Verify all the user input in the fields.
	4. System records information.
	5. Confirm registration of the customer.

Table 10: Expanded Use Case: Customer Registration.

Alternative:

Line 3: If the inserted data are incorrect or missing. Use case ends.

As Dealer:

Dealer Action	System Response
1. The dealer uses on-screen registration form to insert personal details including username and password to use for login.	
2. Clicks on Register button.	
	3. Verify all the user input in the fields.
	4. System records information.
	5. Confirm registration of the dealer.

Table 11: Expanded Use Case: Dealer Registration.

Alternative:

Line 3: If the inserted data are incorrect or missing. Use case ends.

3.7.2.2. Login

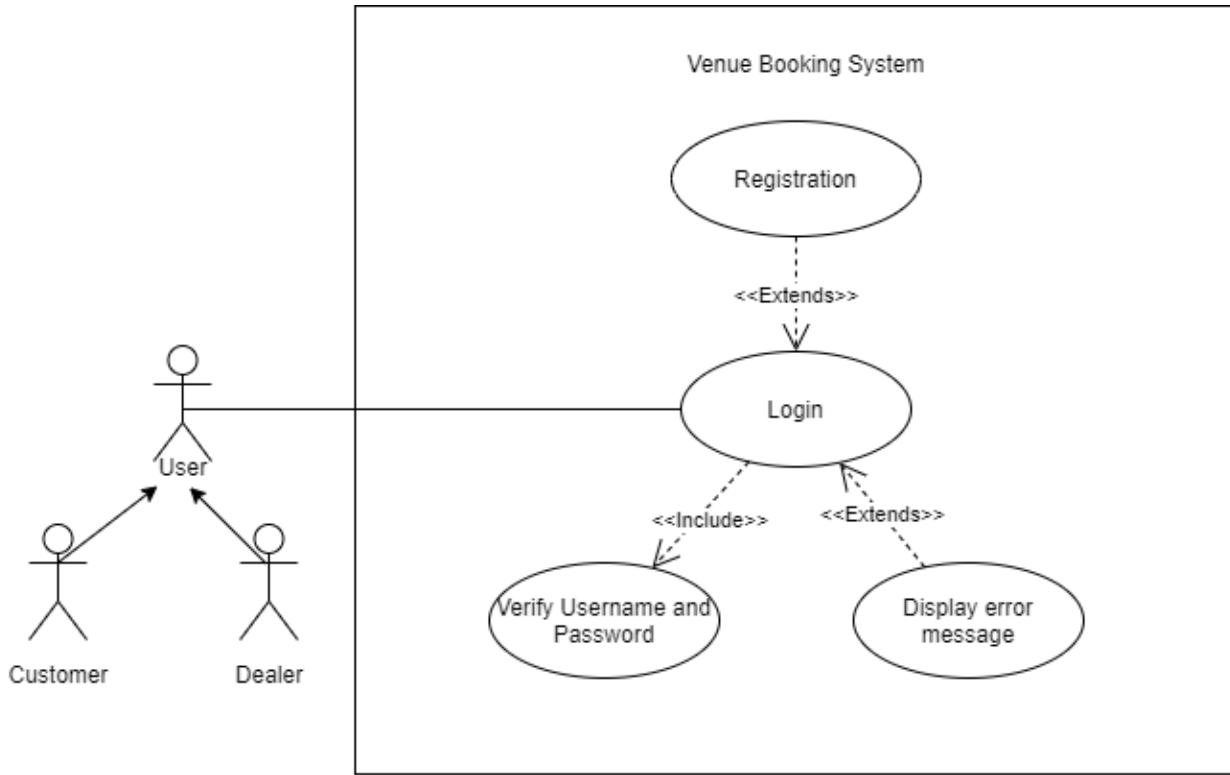


Figure 15: Use Case: Login

Use case: Login

Actor: Customer, Dealer, System

Description: The registered user logs into the system using username and password. The system verifies the password and username inserted. The process is completed when the login page is directed to the home page and dashboard respectively for customer and dealer of the application.

Typical Course of events:

As Customer:

Customer Action	System Response
1. The customer uses on-screen login form to insert username and password.	
2. Clicks on the Login button	
	3. Verify username and password.
	4. Redirect to home page.

Table 12: Expanded use case for Customer Login.

Alternative:

Line 3: Username or password entered is incorrect. Use case ends.

As Dealer:

Dealer Action	System Response
1. The customer uses on-screen login form to insert username and password.	
2. Clicks on the Login button	
	3. Verify username and password.
	4. Redirect to Dashboard.

Table 13: Expanded use case for Dealer Login.

Alternative:

Line 3: Username or password entered is incorrect. Use case ends.

3.7.2.3. Add Venue

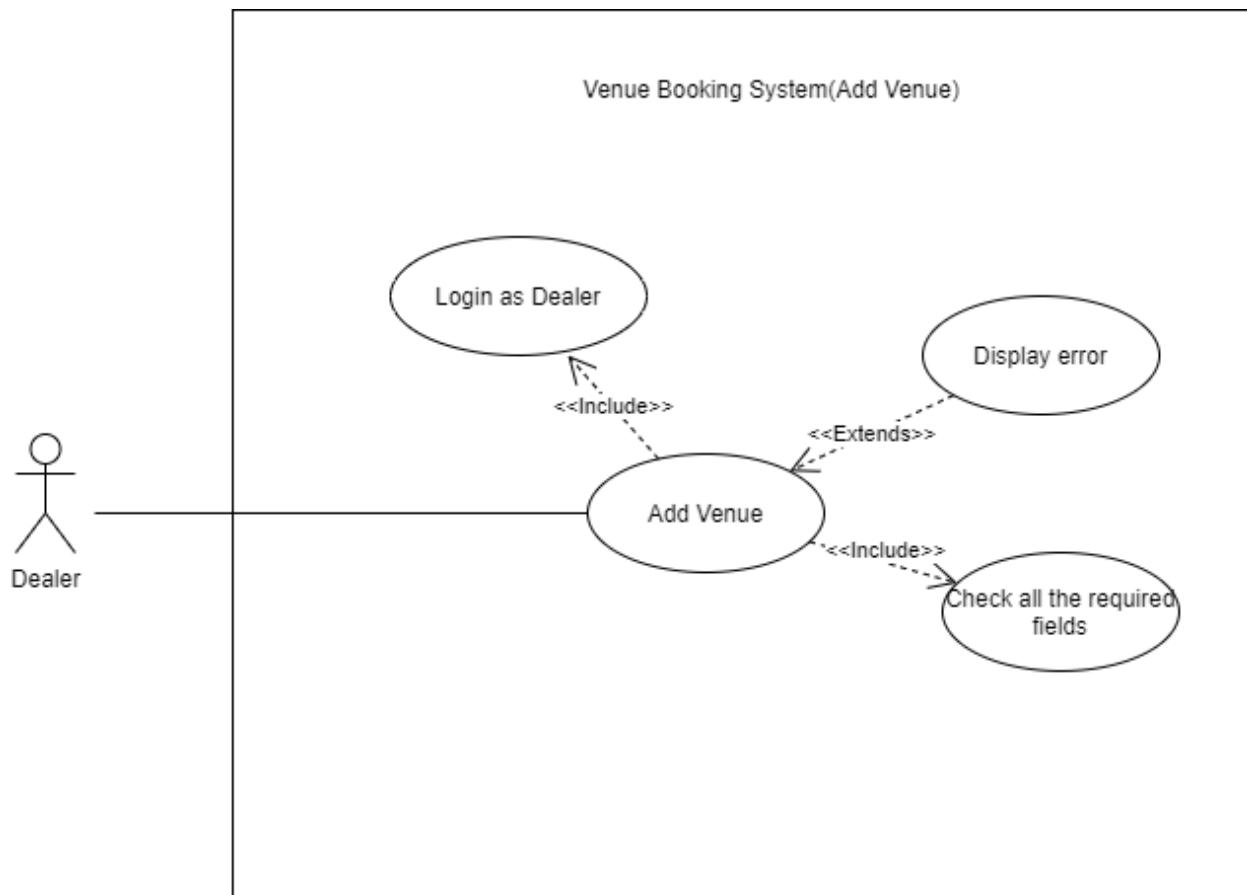


Figure 16: Expanded Use Case: Add Venue.

Use case: Add Venue

Actor: Dealer, System

Description: The registered dealer logs into the system and clicks on register venue button to add venue to the listings of the system.

Typical Course of events:

Dealer Action	System Response
1. The dealer logs into the system and clicks on Register Venue Button.	
2. Fills out registration form.	
3. Submits the form.	
	4. Verifies the required field in the form.
	5. Stores the venue details.

Table 14: Expanded Use case: Add Venue.

Alternative:

Line 4: Dealer does not fill the required fields in the form, error messages are displayed.
Use case ends.

3.7.2.4. Edit Venue Details

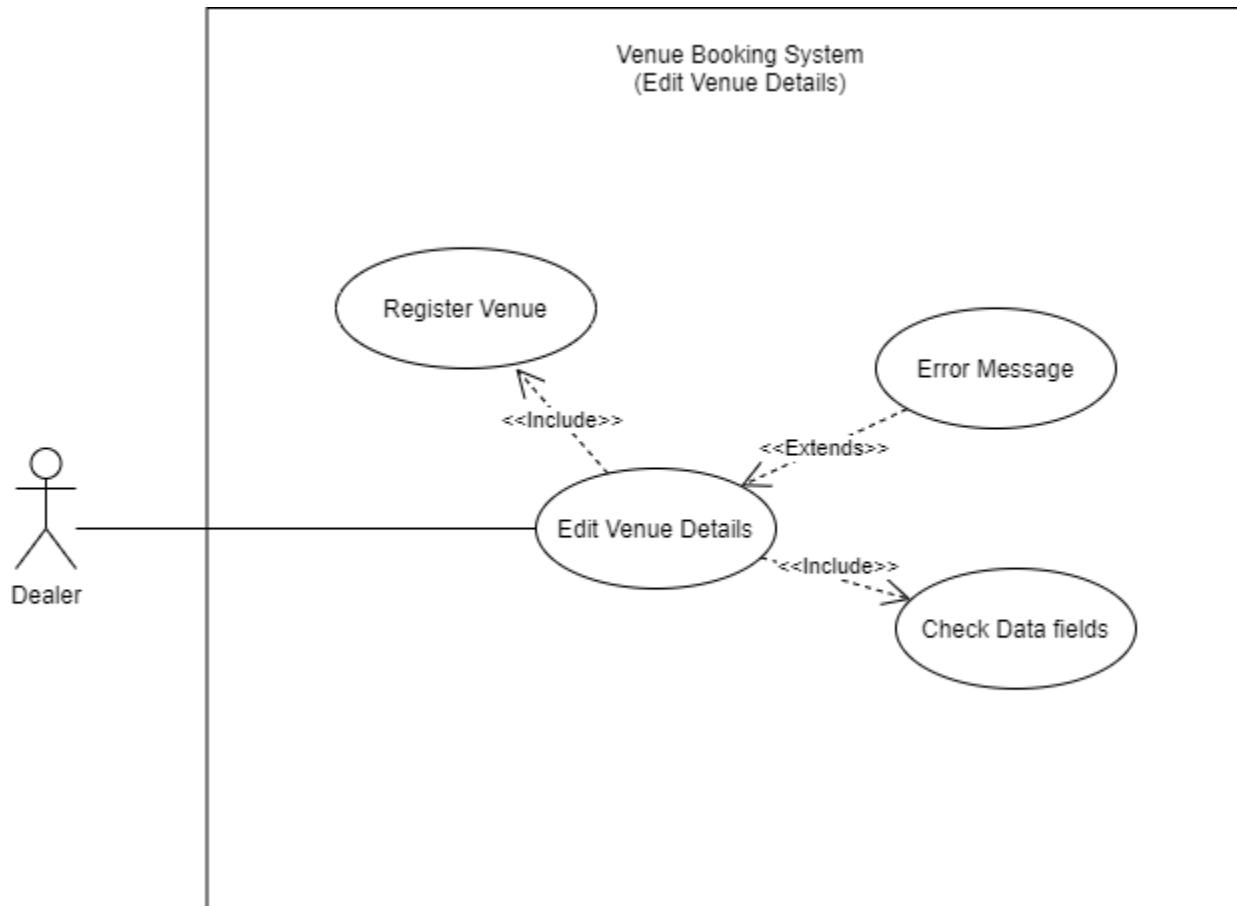


Figure 17: Use Case: Edit Venue Details.

Use case: Edit Venue Details

Actor: Dealer, System

Description: The owner of the Venue logs into the system and chooses his/her venue to edit the venue details.

Typical course of event.

Customer Action	System Response
1. The venue owner logs into the system and choose his respective venue.	
2. Clicks on Edit Button.	
	3. Displays the form prefilled with previous details.
4. Changes the detail and clicks Save button	
	5. Verifies the inputted fields.
	6. Stores the update venue details.

Table 15: Expanded Use Case: Edit Venue Details.

Alternative:

Line 5: Data inserted is incorrect or required field is empty. Use case ends.

3.7.2.5. Delete Venue

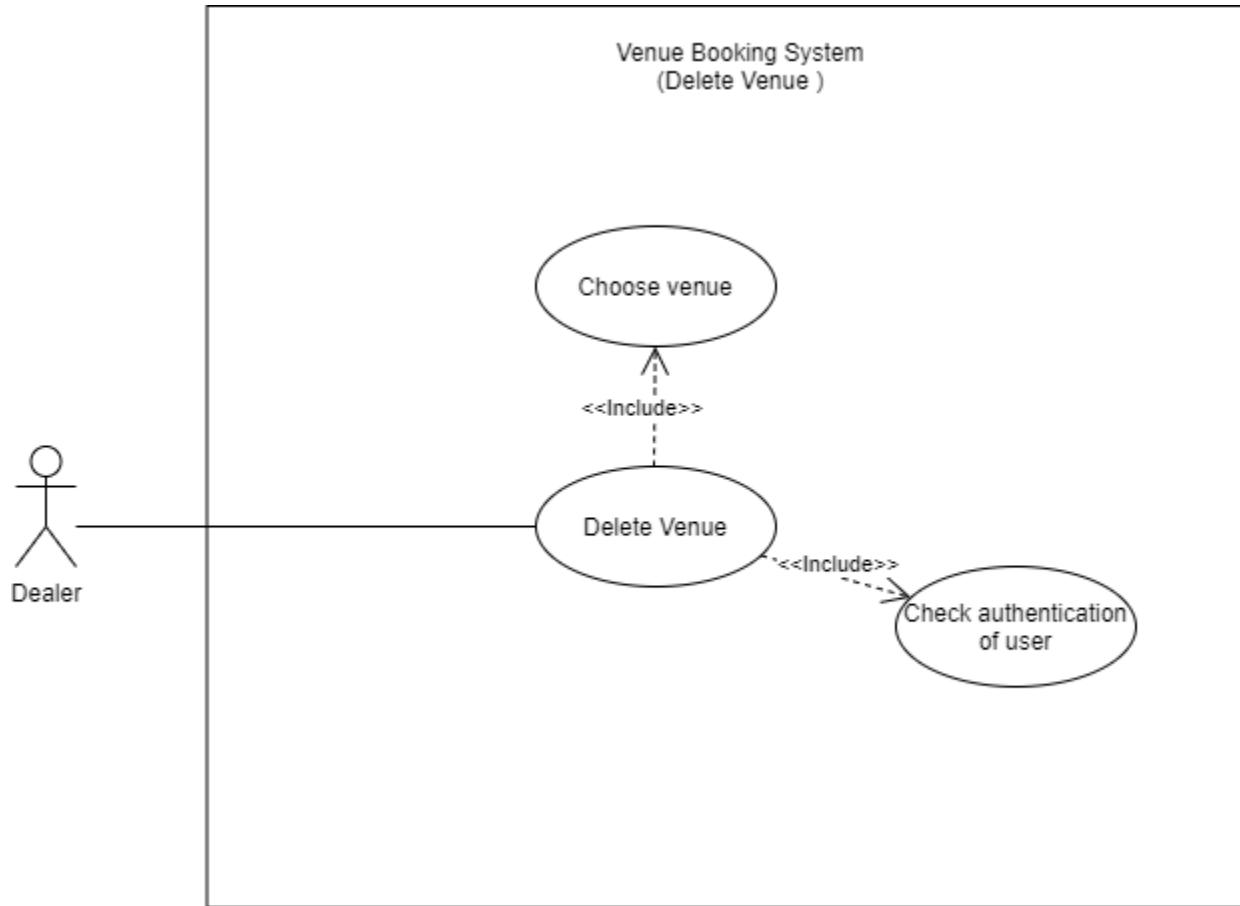


Figure 18: Use Case: Delete Venue.

Use case: Delete Venue

Actor: Dealer, System

Description: The owner of the Venue logs into the system and selects his/her venue to be deleted.

Typical course of event.

Dealer Action	System Response
1. The venue owner logs into the system and choose his respective venue.	
2. Clicks on Delete Button.	
	3. Displays UI to ensure if he/she wants to delete the venue details from the system.
4. Clicks on the Confirm button.	
	5. Deletes the venue information from the database.

Table 16: Expanded Use Case: Delete Venue.

Alternative:

Line 4: Dealer clicks the Cancel Button to cancel the deletion of venue details. Use case ends.

3.7.2.6. View Venue Details

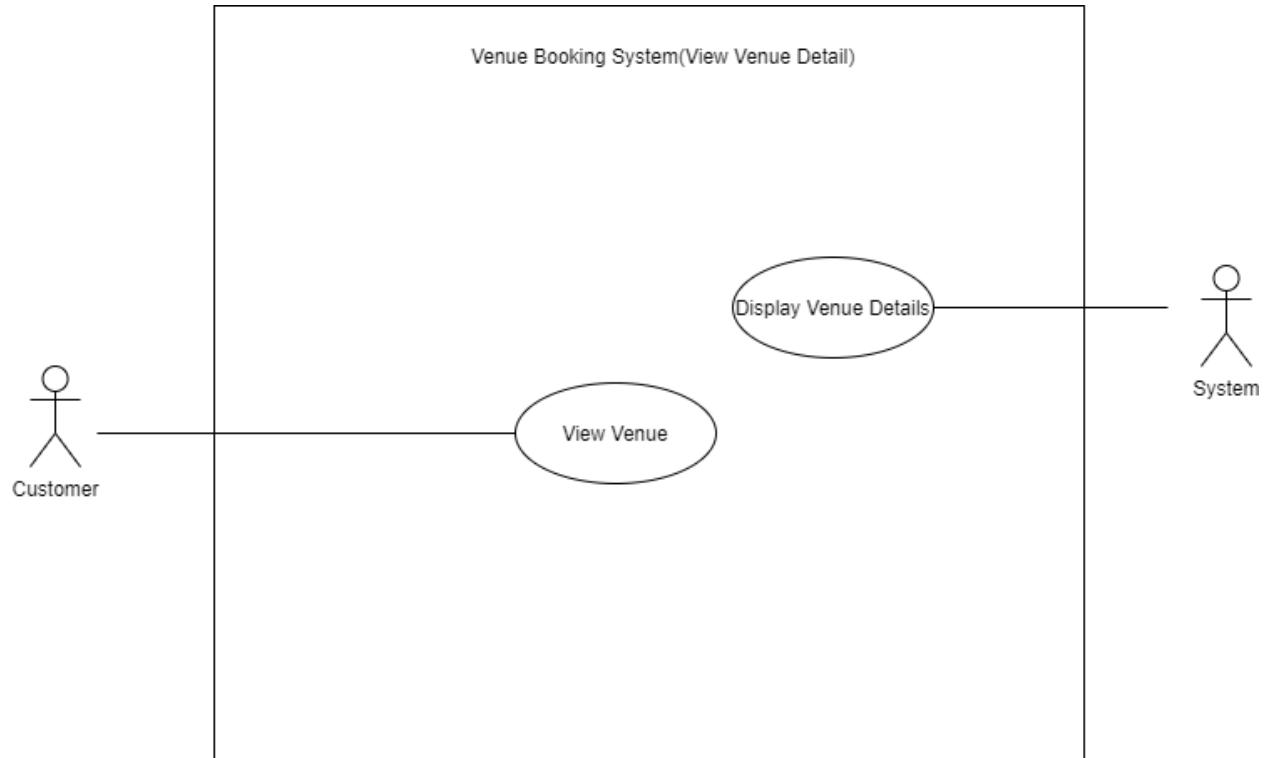


Figure 19: Use Case: View Venue.

Use case: View Venue

Actor: Customer, System

Description: The customer selects a venue to view its detail. The system returns the details of the Venue.

Typical course of event.

Customer Action	System Response
6. The customer selects the preferred venue to view its details.	
7. Clicks on View Button.	
	8. Shows the Detailed information of the venue.

Table 17: Expanded Use Case: View Venue Details..

3.7.2.7. Book Venue

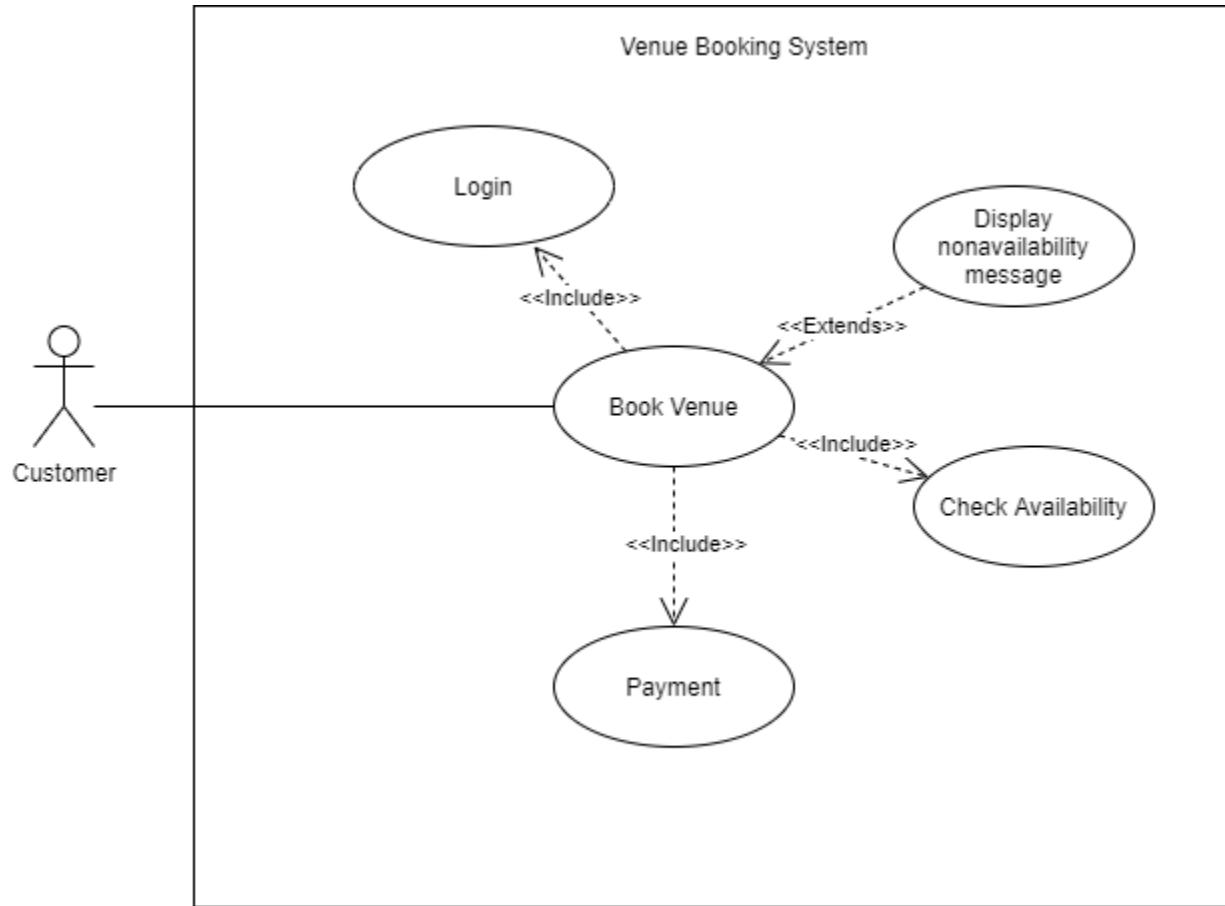


Figure 20: Use Case: Book Venue.

Use case: Book Venue

Actor: Customer, System

Description: The registered customer logs into the system and chooses suitable venue for booking. Customer pays the asking amount and confirms booking of the venue for the day.

Typical Course of events:

Customer Action	System Response
9. The customer logs into the system and chooses suitable venue for booking.	
10. Clicks on Book Venue Button.	
11. Fills out booking form including booking date and payment details.	
12. Submits the form.	
	13. Checks for the availability of the venue.
	14. Sends confirmation message for booking the venue successfully.

Table 18: Expanded Use case: Book Venue.

Alternative:

Line 5: The venue is not available for the day. Use case ends.

3.7.2.8. Send Invitation

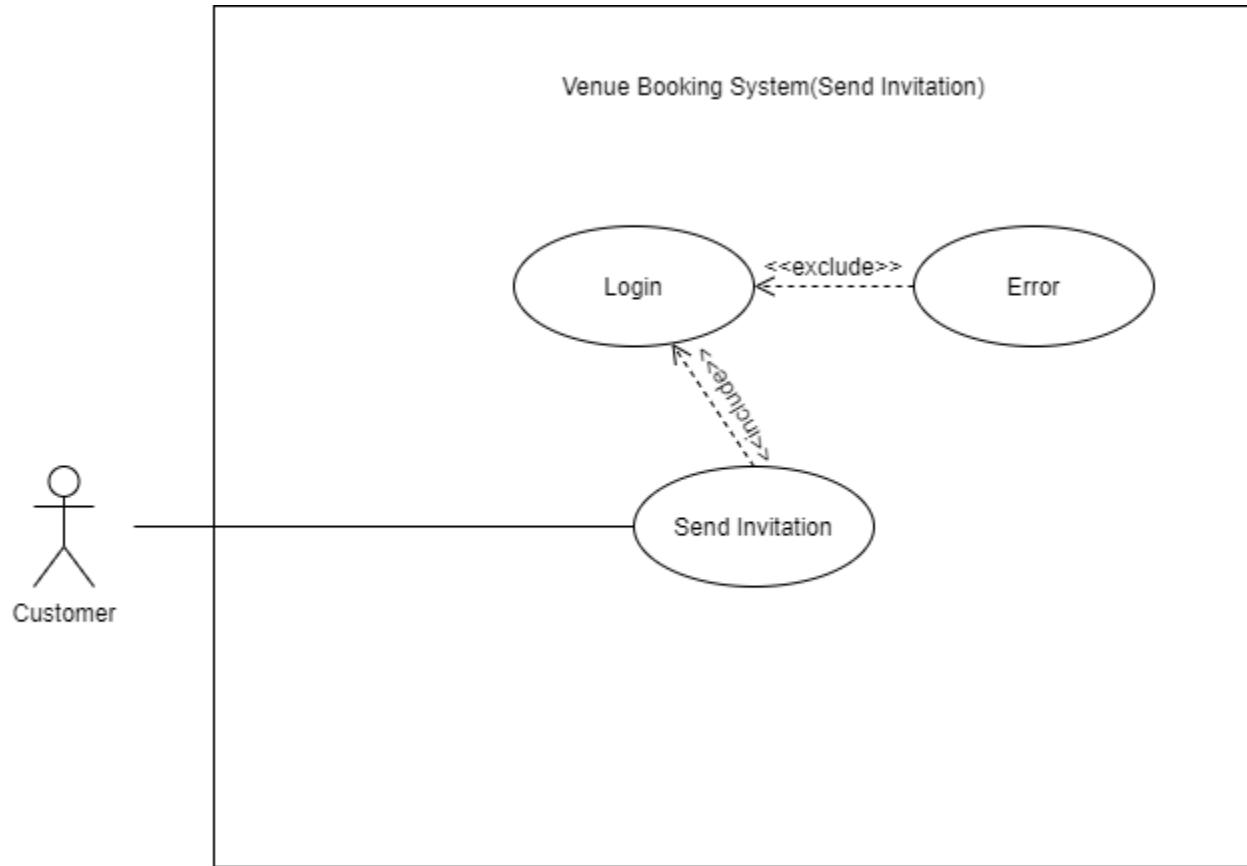


Figure 21: Use Case: Send Invitation.

Use case: Send Invitation

Actor: Customer, System

Description: The registered customer logs into the system and sends invitation to lists of invitees.

Typical Course of events:

Customer Action	System Response
1. The customer logs into the system.	
2. Clicks on Send Invitation Button in the navigation bar.	
	3. Displays an invitation form.
4. Fills the form.	
5. Press send button.	
	6. Sends invitation to the invitees listed in the form.
	7. Sends confirmation message for sending invitation email to invitees.

Table 19: Expanded Use case: Send Invitation.

Alternative:

Line 5: Does not submit the form. Use case ends.

3.7.2.9. Send Feedback

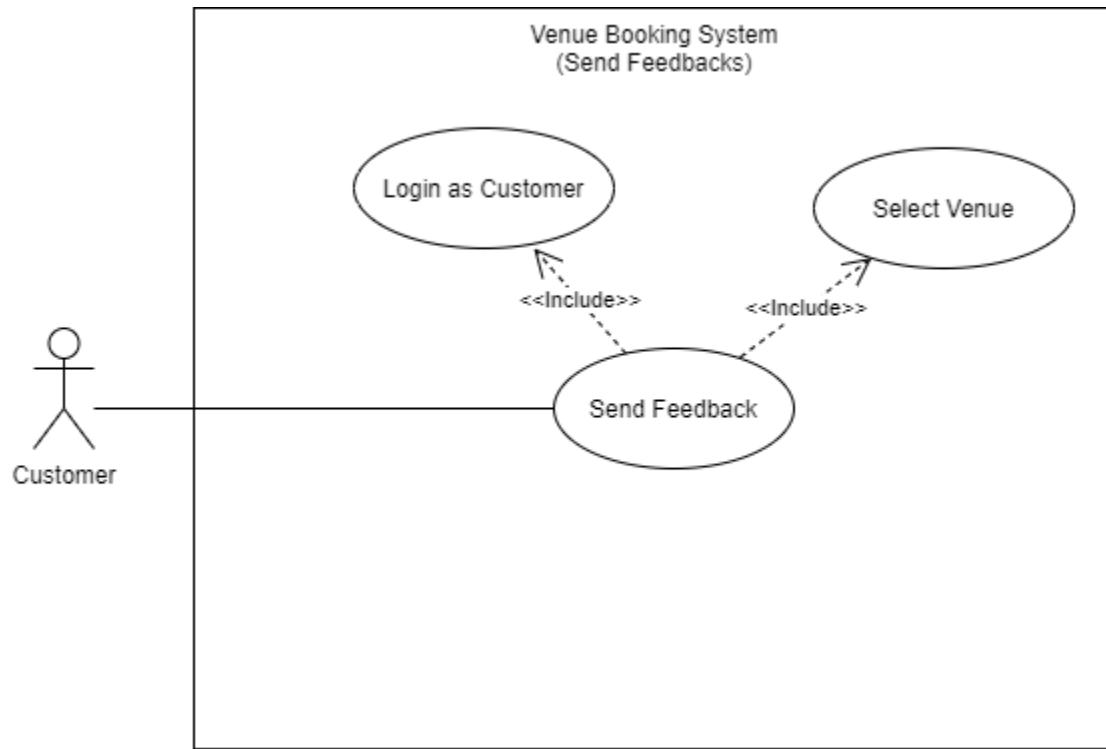


Figure 22: Use Case: Send Feedback.

Use case: Send Feedback

Actor: Customer, System

Description: The registered customer logs into the system and selects venue and send necessary feedbacks.

Typical Course of events:

Customer Action	System Response
1. The customer logs into the system and venue to send feedbacks	
2. Clicks on Send Feedback Button.	
3. Fills the feedback form	
4. Submits the form.	
	5. Save Feedbacks.
	6. Sends confirmation message for sending feedback.

Table 20: Expanded Use case: Book Venue.

Alternative:

Line 4: Does not submit the form. Use case ends.

3.7.2.10. View Feedback

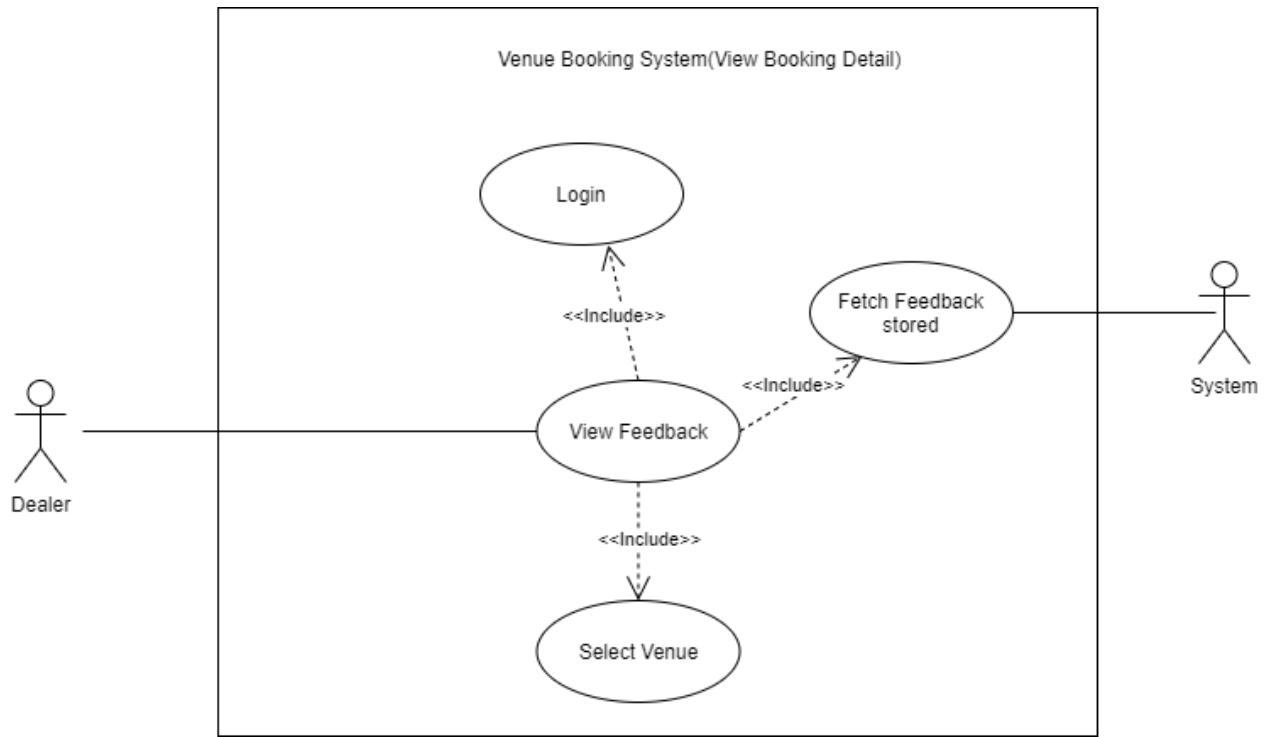


Figure 23: Use Case: View Feedback.

Use case: View Booking Details

Actor: Dealer, System

Description: The registered customer logs into the system and books a venue for the day, the owner of the dealer can then view the booking details including customers' details and booked date.

Typical Course of events:

Dealer Action	System Response
1. The dealer logs into the system.	
2. The dealer selects their owned venue.	
	3. Returns the feedbacks received from the customers.
4. Views the feedback received.	

Table 21: Expanded Use Case: View Feedback.

3.7.2.11. View Booking Details

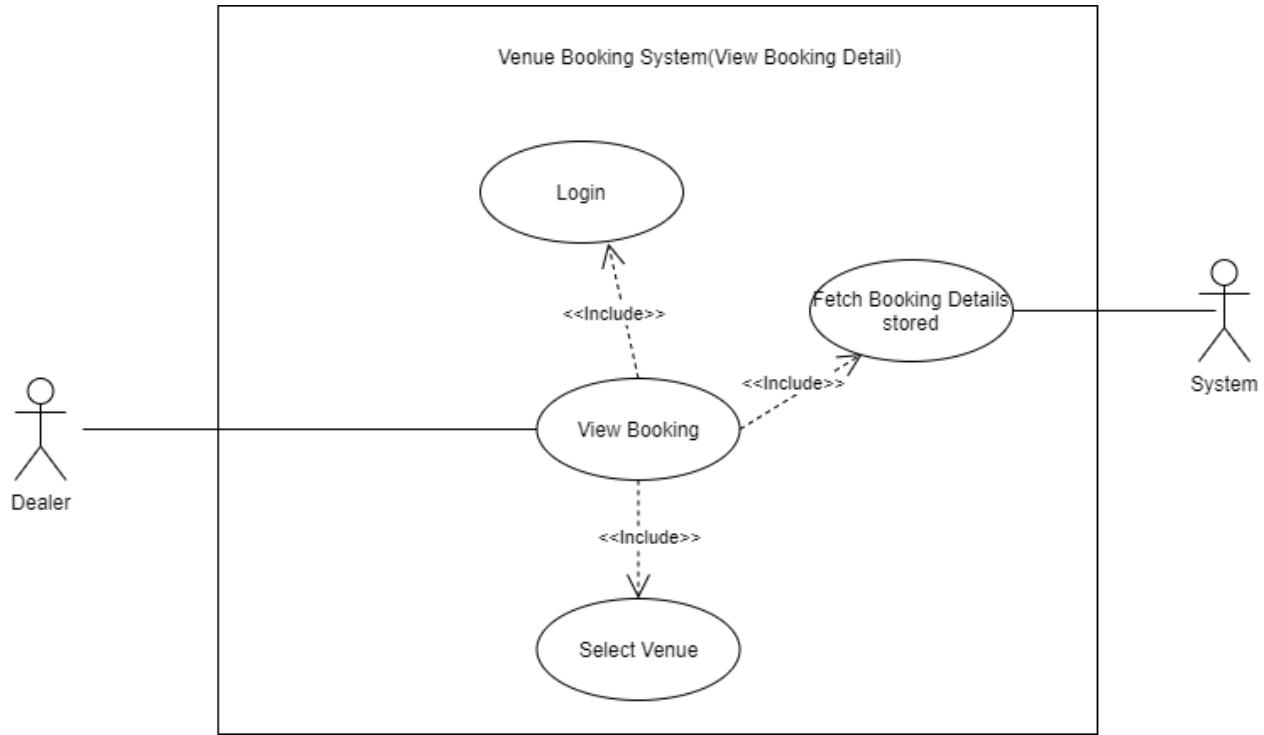


Figure 24: Use Case: View Booking Details.

Use case: View Booking Details

Actor: Dealer, System

Description: The registered customer logs into the system and books a venue for the day, the owner of the dealer can then view the booking details including customers' details and booked date.

Typical Course of events:

Dealer Action	System Response
1. The dealer logs into the system.	
2. The dealer selects their owned venue.	
	3. Returns the detailed information of the booking done by customers.
4. Views the booking date which includes customers' details and booked date.	

Table 22: Expanded Use case: View Booking detail of Venue.

3.7.3. Collaboration Diagram

3.7.3.1. User Registration

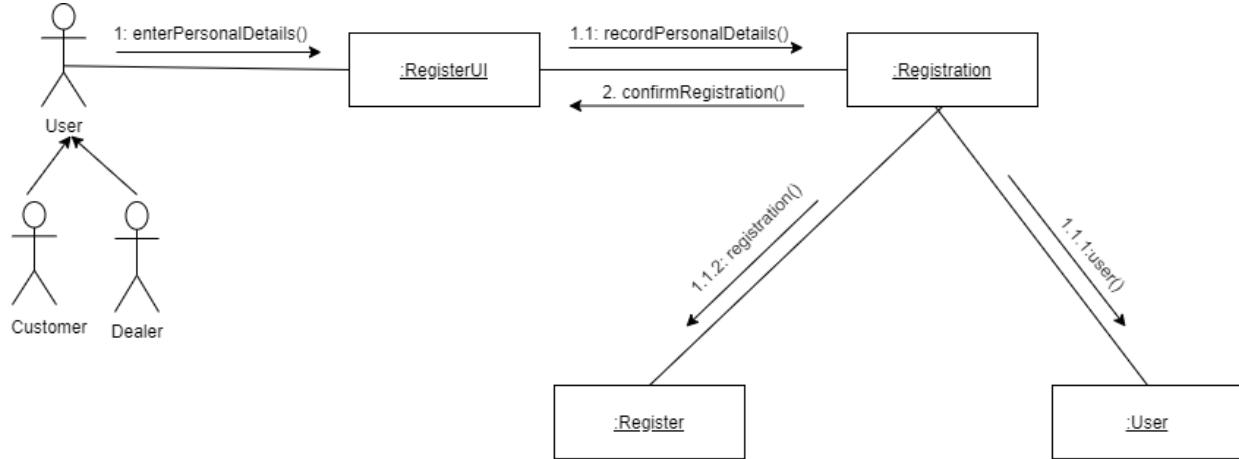


Figure 25: Collaboration Diagram: User Registration.

3.7.3.2. User Login

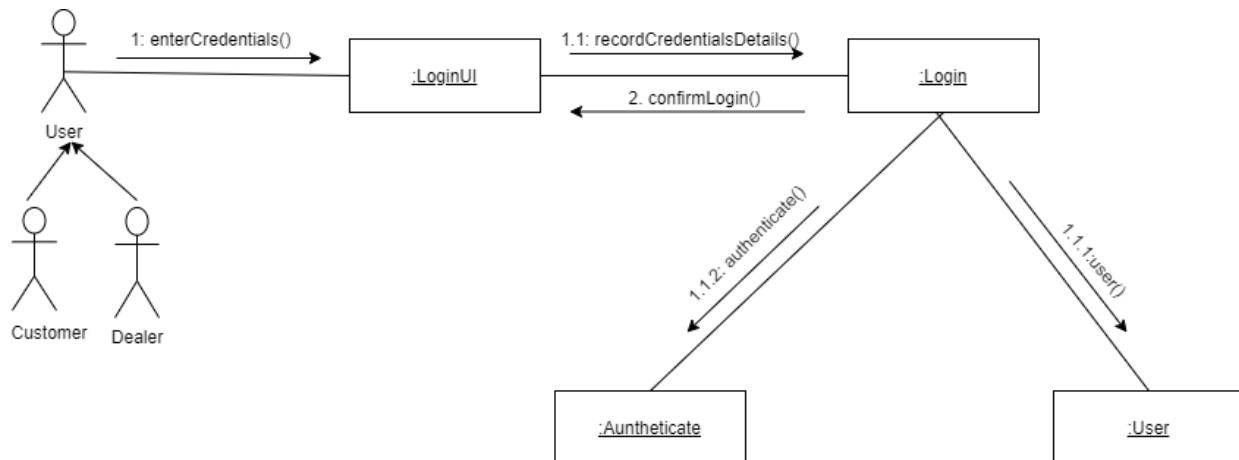


Figure 26: Collaboration Diagram: User Login.

3.7.3.3. Add Venue

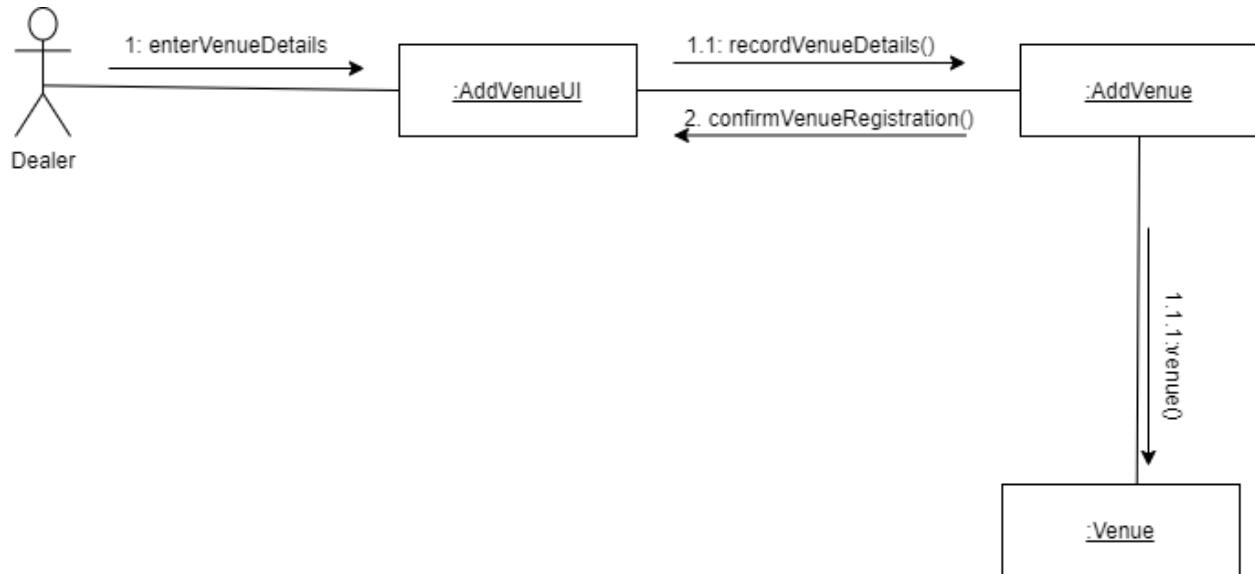


Figure 27: Collaboration Diagram: Add Venue.

3.7.3.4. View Venue

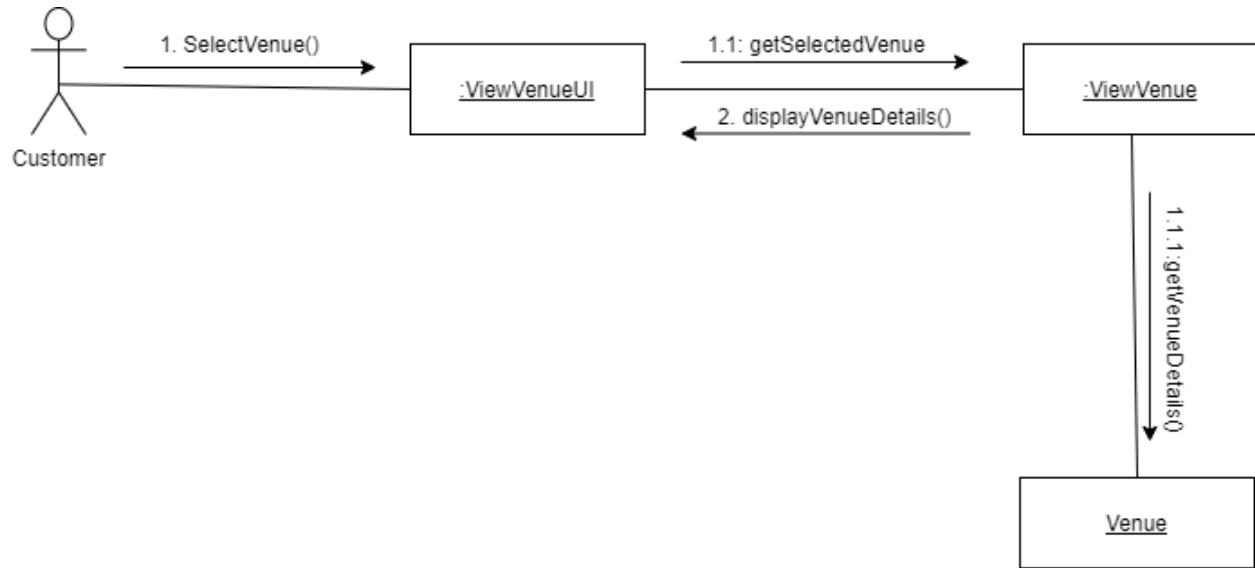


Figure 28: Collaboration Diagram: View Venue.

3.7.3.5. Edit Venue

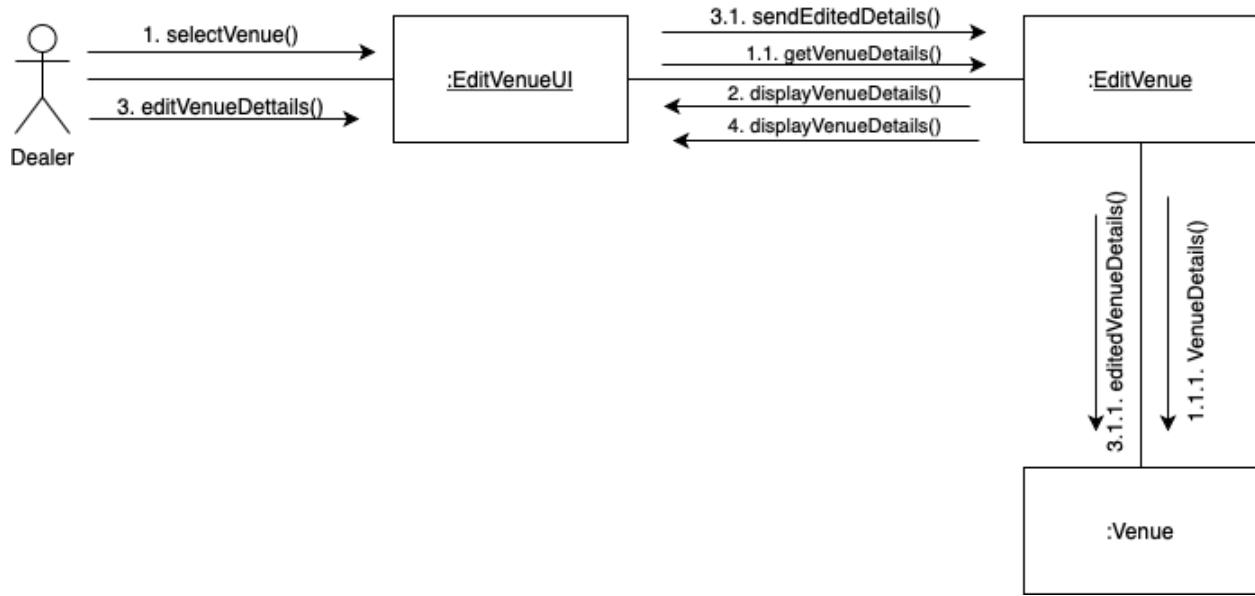


Figure 29: Collaboration Diagram: Edit Venue.

3.7.3.6. Delete Venue

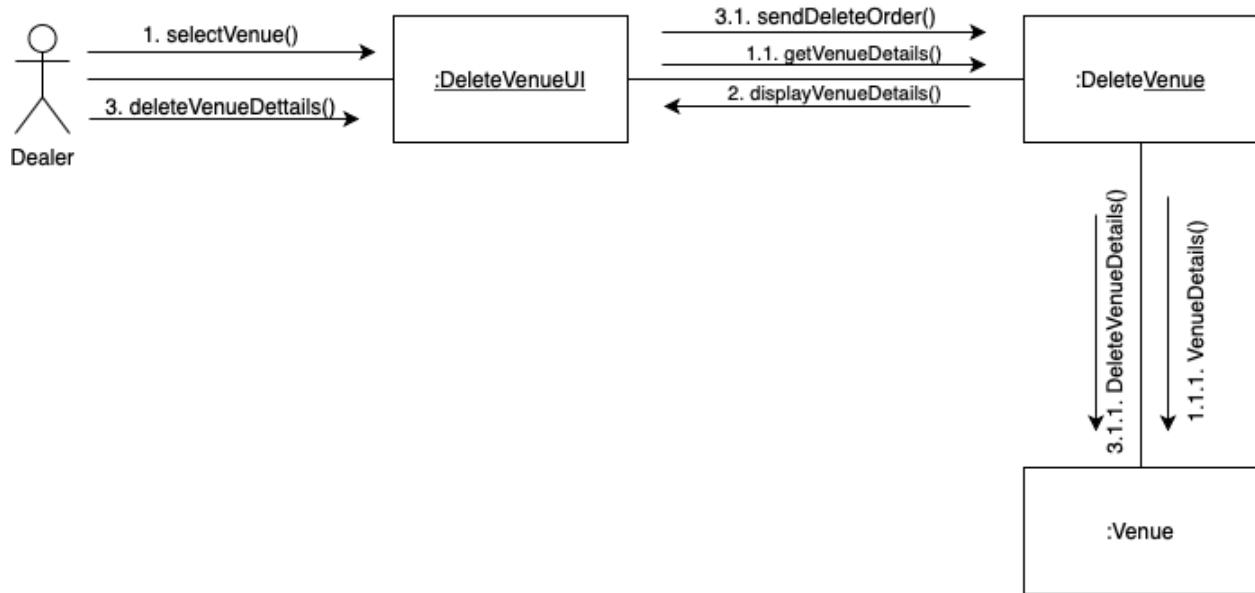


Figure 30: Collaboration Diagram: Delete Venue.

3.7.3.7. Send Feedback

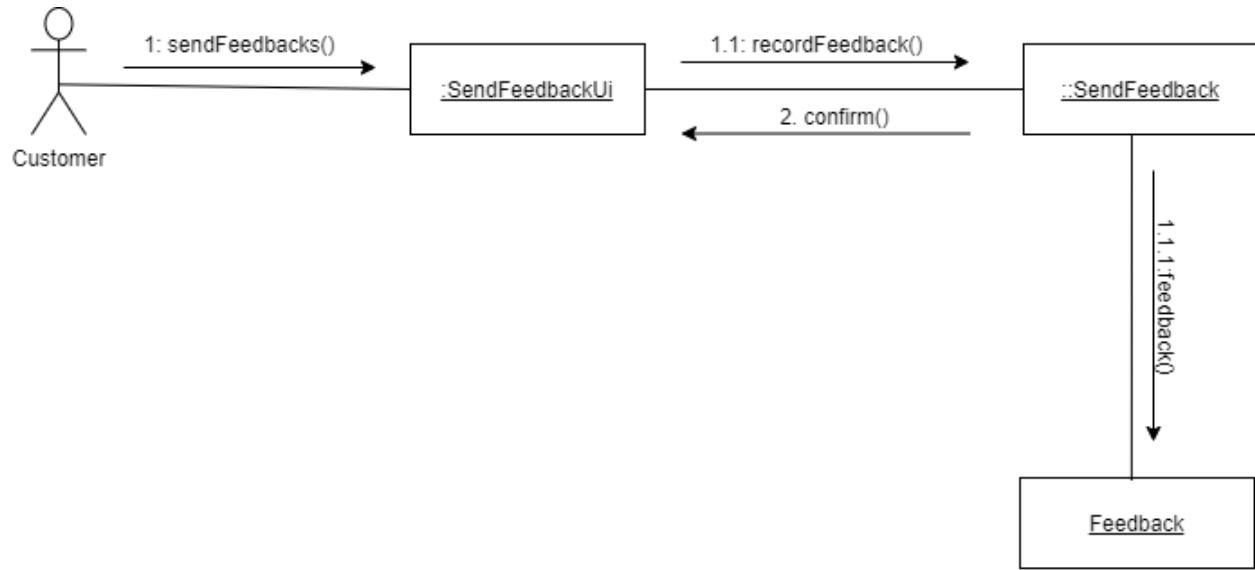


Figure 31: Collaboration Diagram: Send Feedback.

3.7.3.8. Book Venue

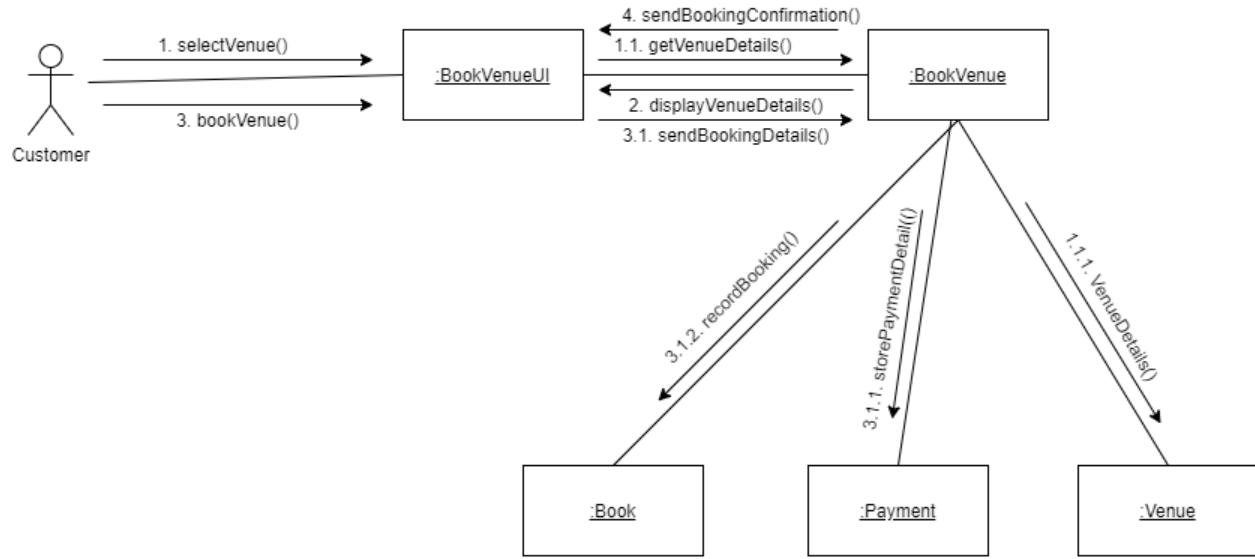


Figure 32: Collaboration Diagram: Book Venue.

3.7.3.9. Send Invitation

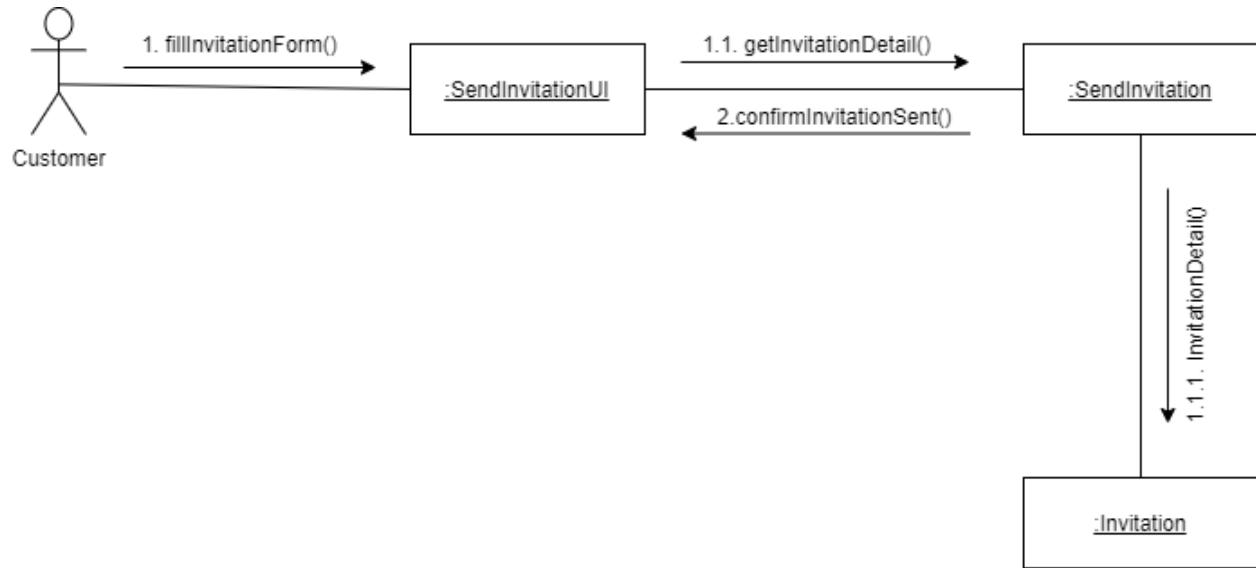


Figure 33: Collaboration Diagram: Send Invitation.

3.7.3.10. View Booking

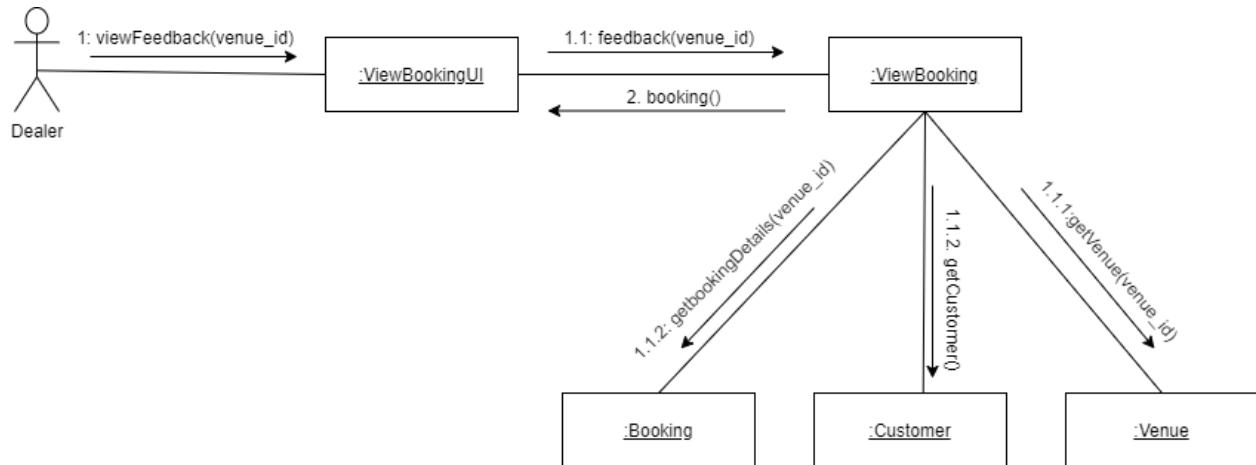


Figure 34: Collaboration Diagram: View Booking.

3.7.3.11. View Feedback

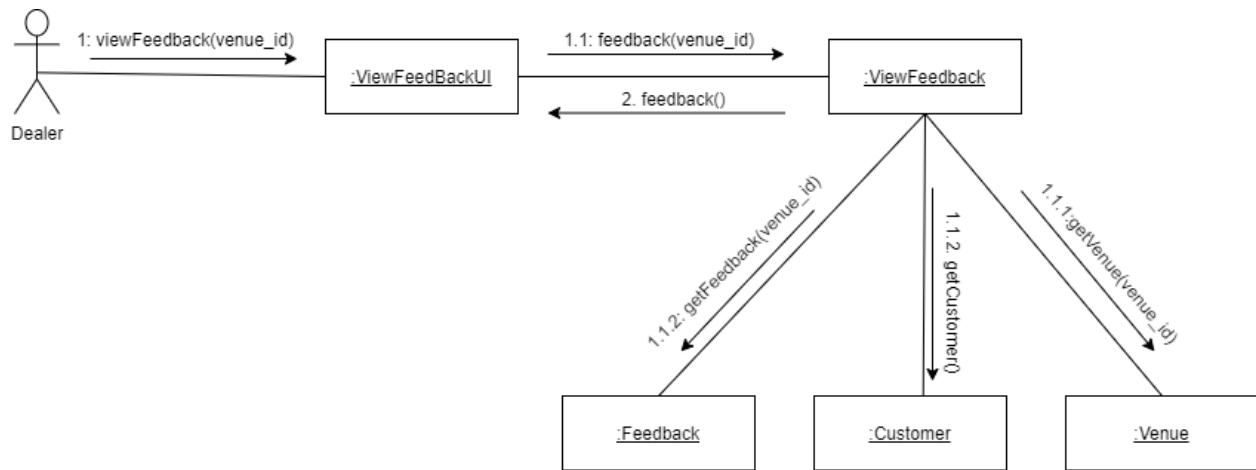


Figure 35: Collaboration Diagram: View Feedback.

3.7.4. Sequence Diagram

3.7.4.1. User Registration

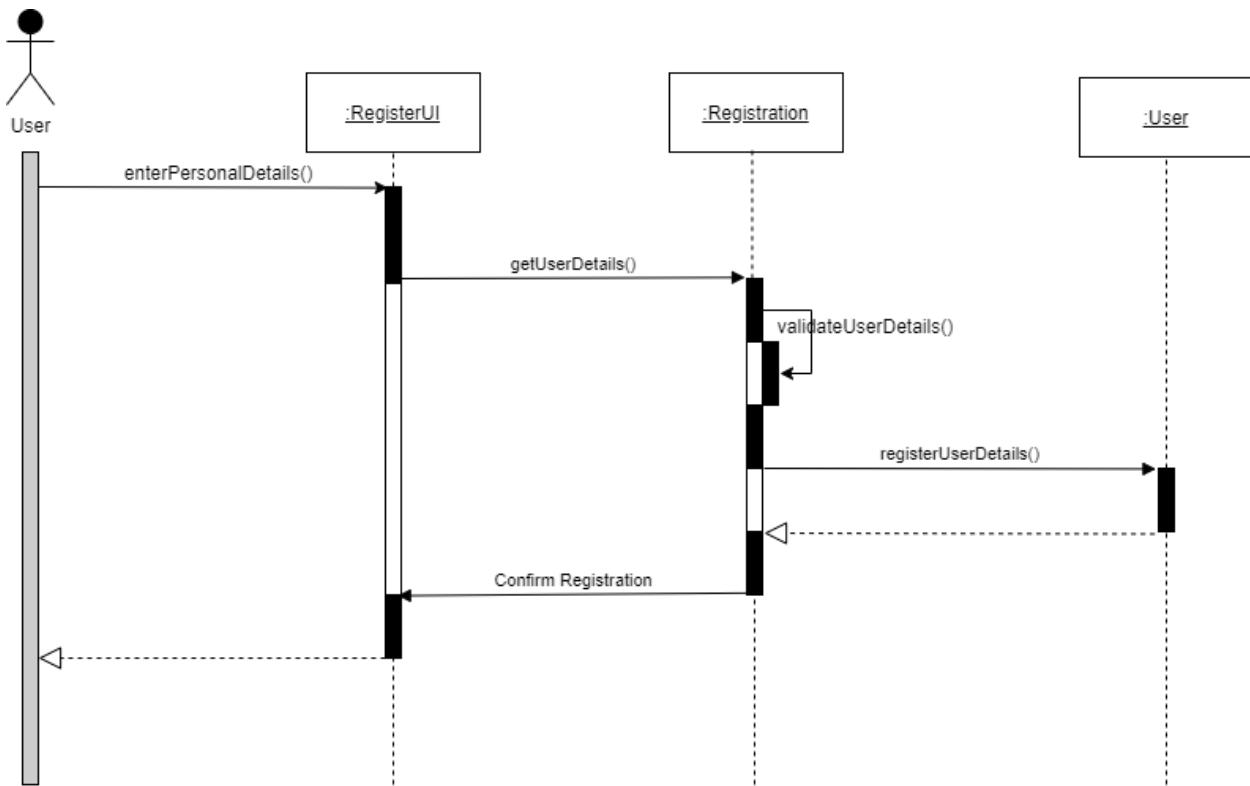


Figure 36: Sequence Diagram: User Registration.

3.7.4.2. User Login

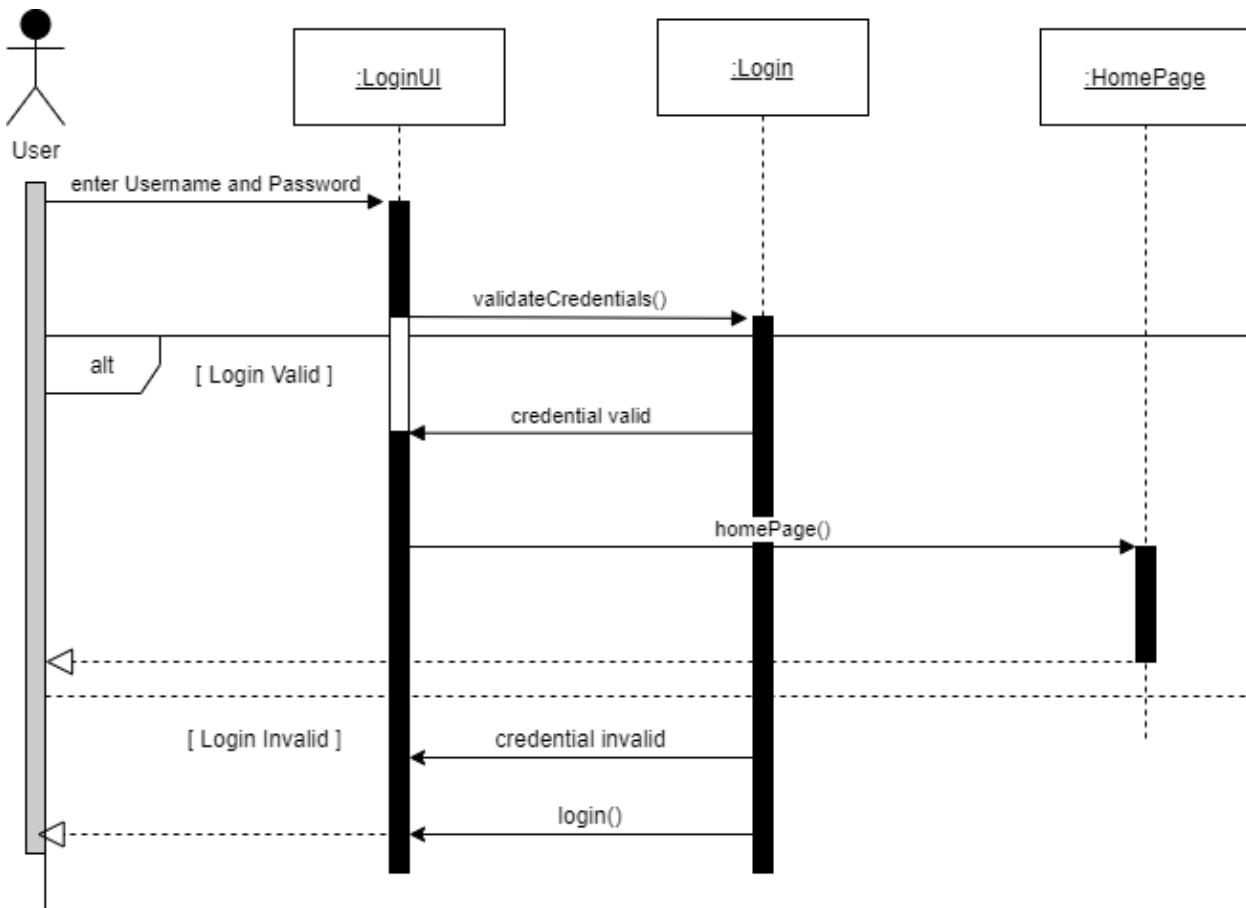


Figure 37: Sequence Diagram: User Login.

3.7.4.3. Add Venue

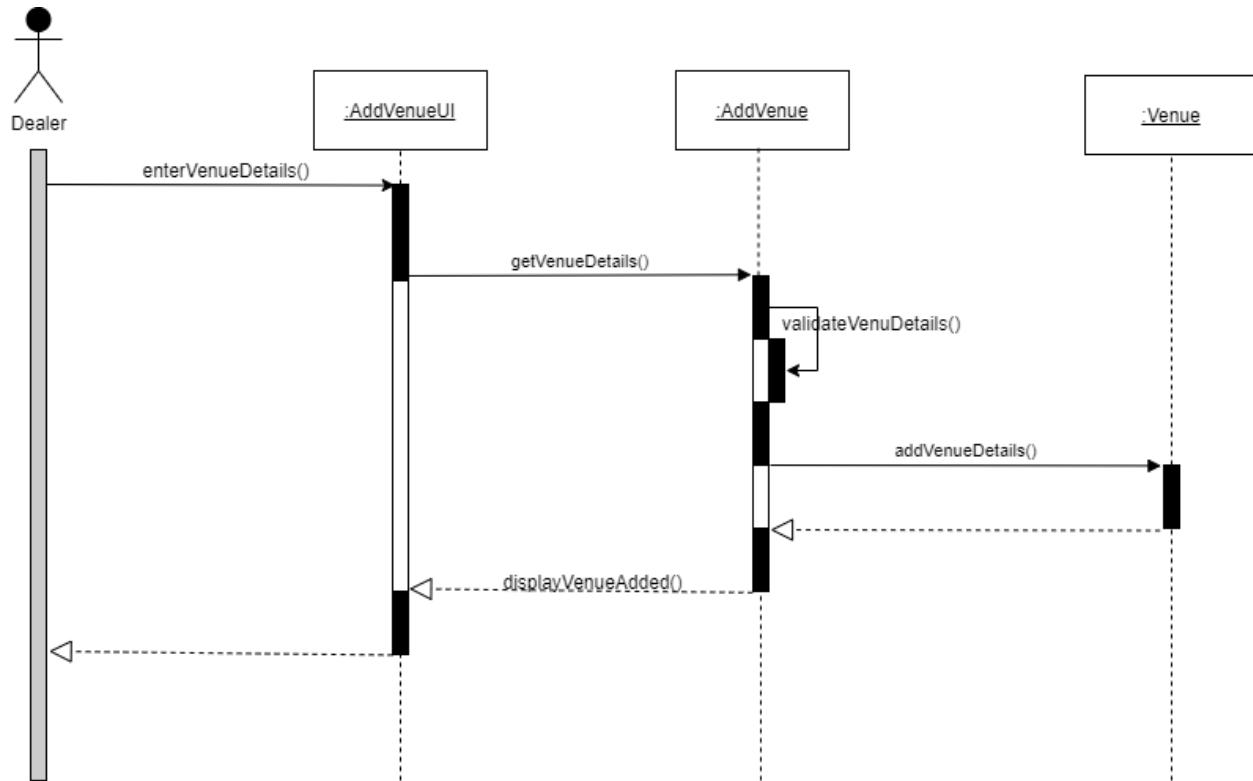


Figure 38: Sequence Diagram: Add Venue.

3.7.4.4. Edit Venue

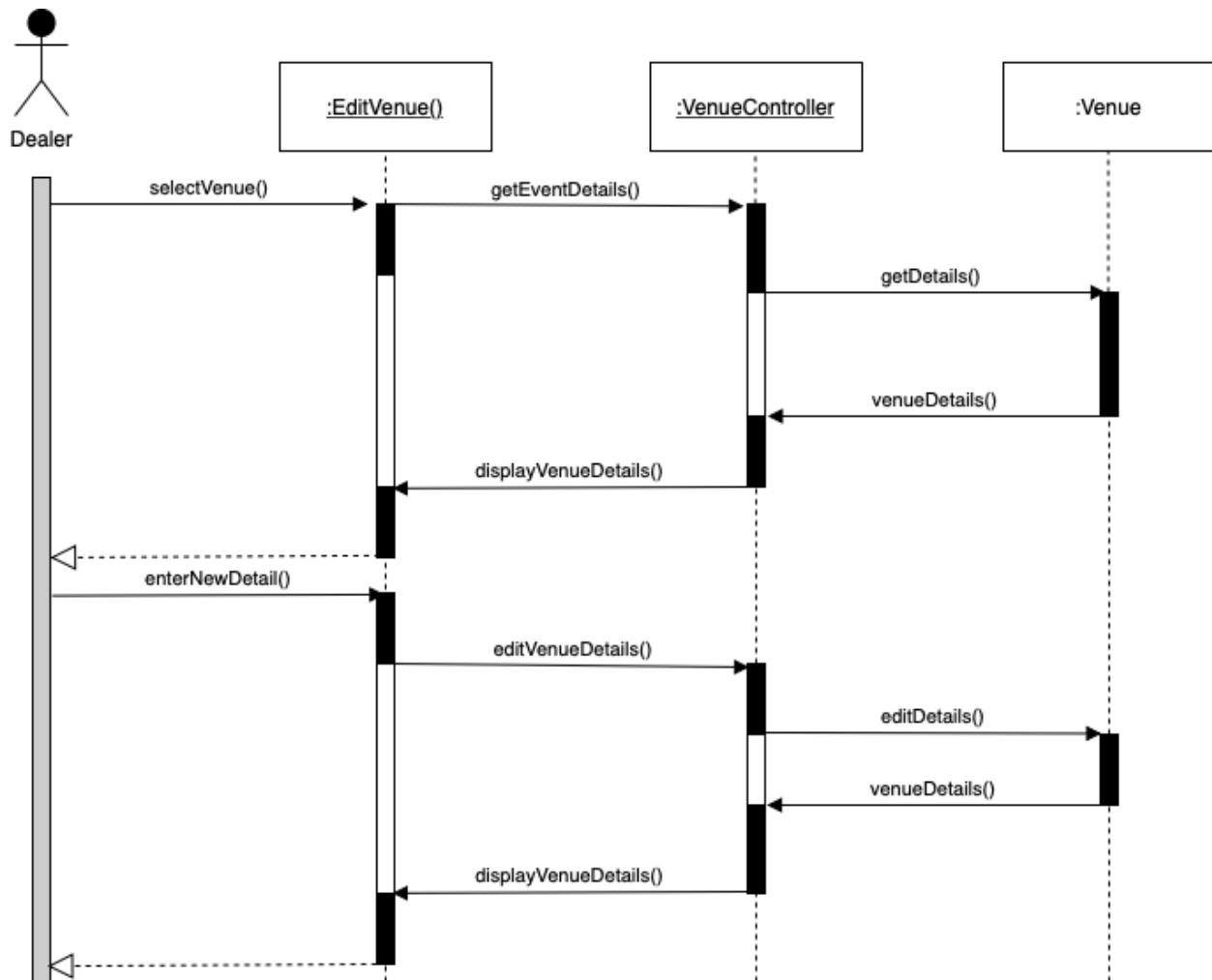


Figure 39: Sequence Diagram: Edit Venue.

3.7.4.5. Delete Venue

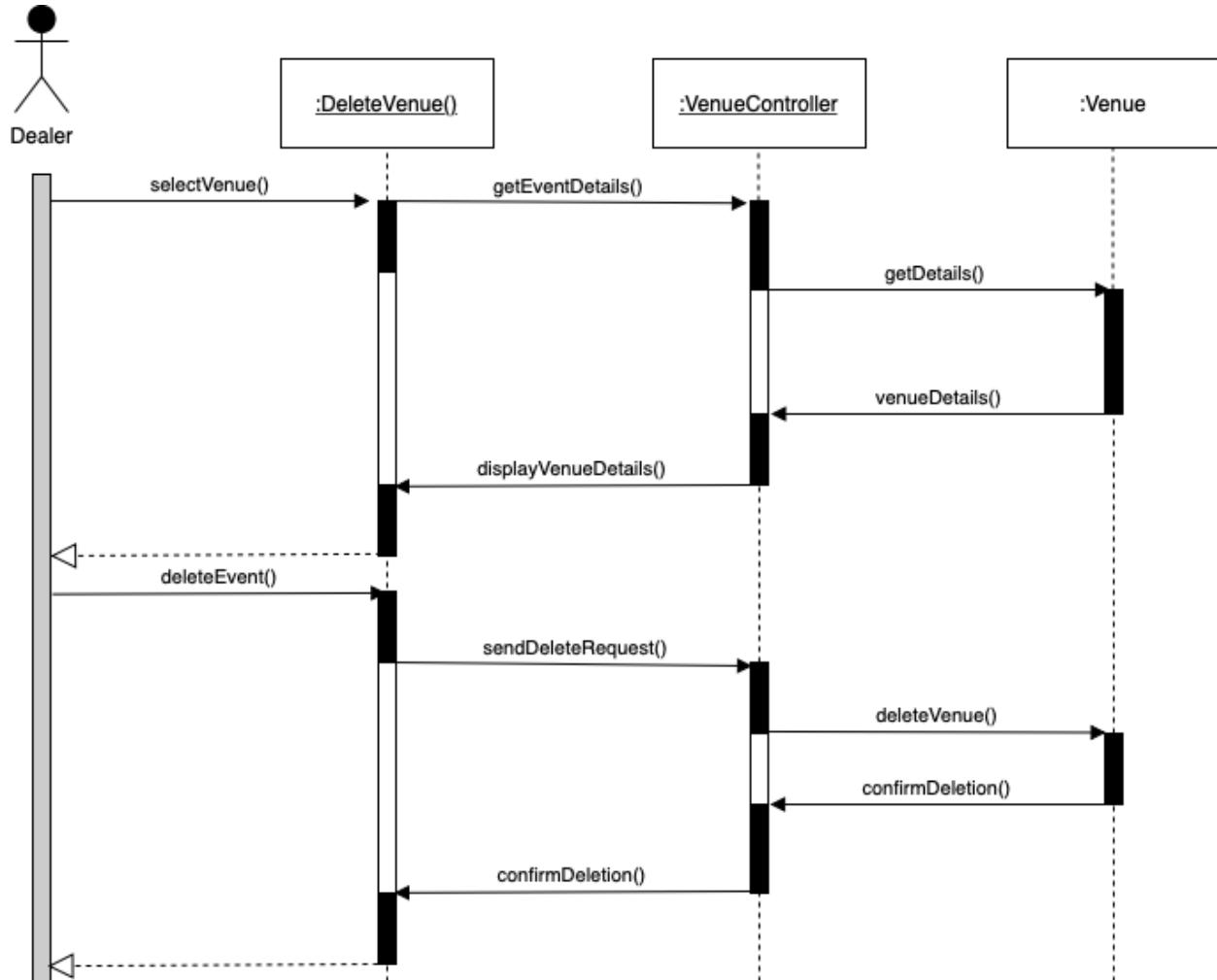


Figure 40: Sequence Diagram: Delete Venue.

3.7.4.6. View Venue Details

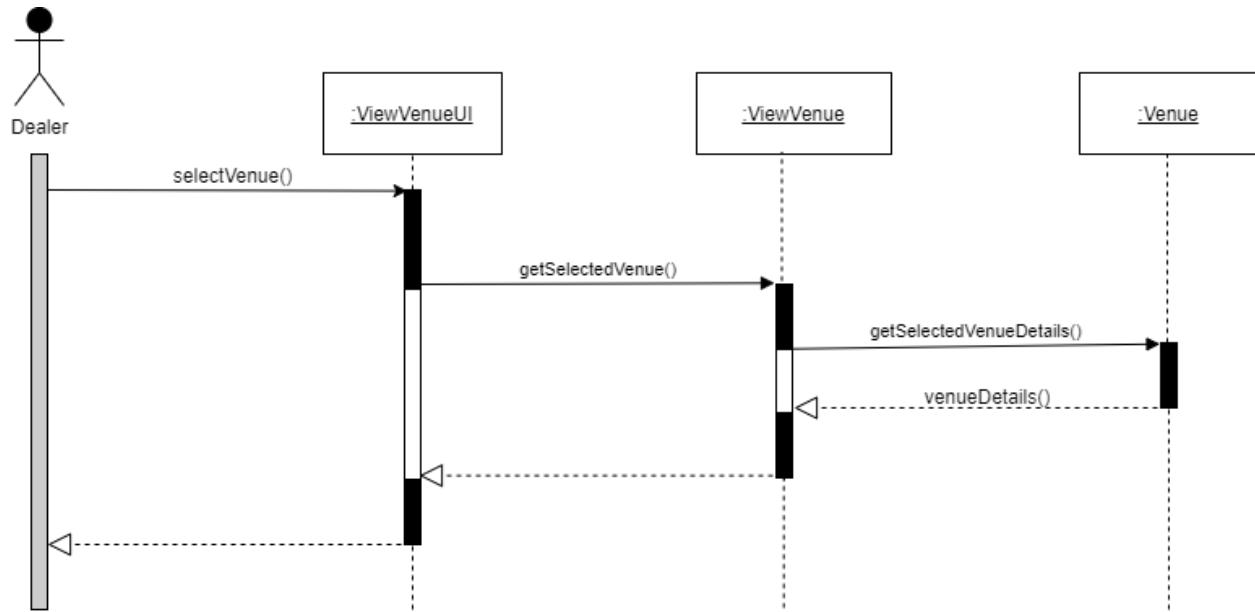


Figure 41: Sequence Diagram: View Venue Details.

3.7.4.7. Send Feedbacks

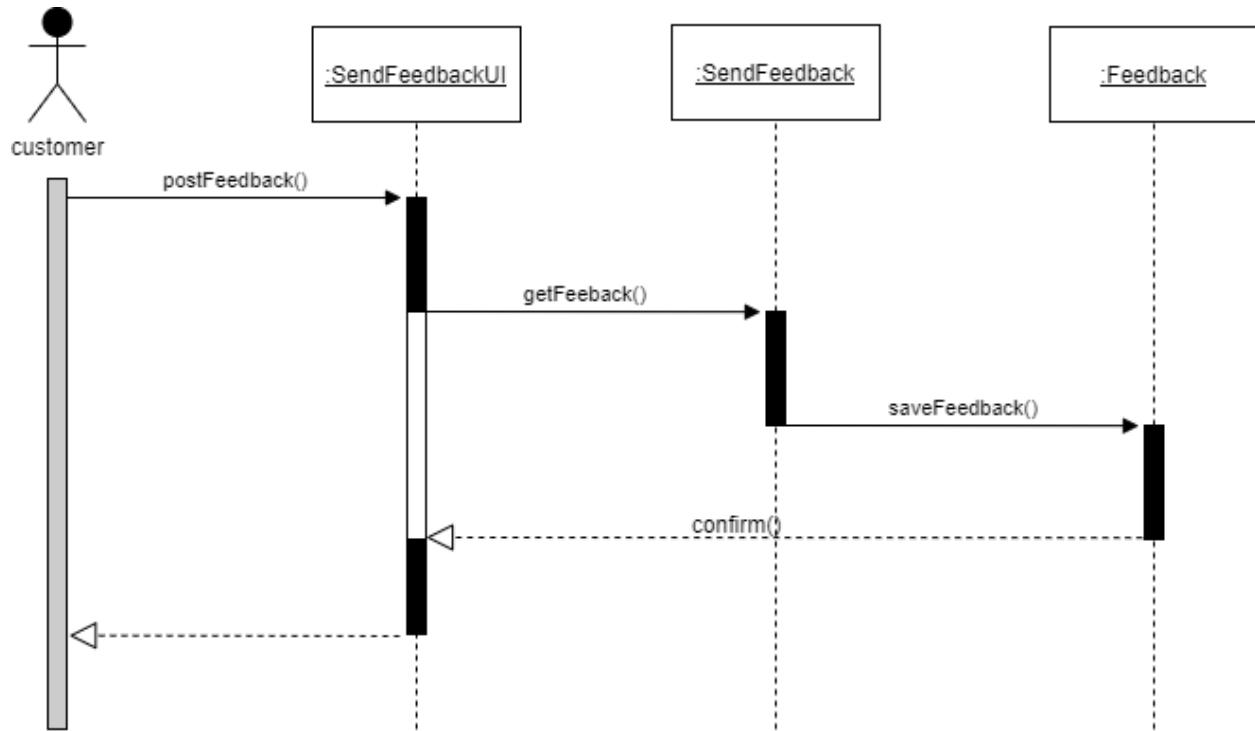


Figure 42: Sequence Diagram: Send feedback.

2.7.4.8. Book Venue

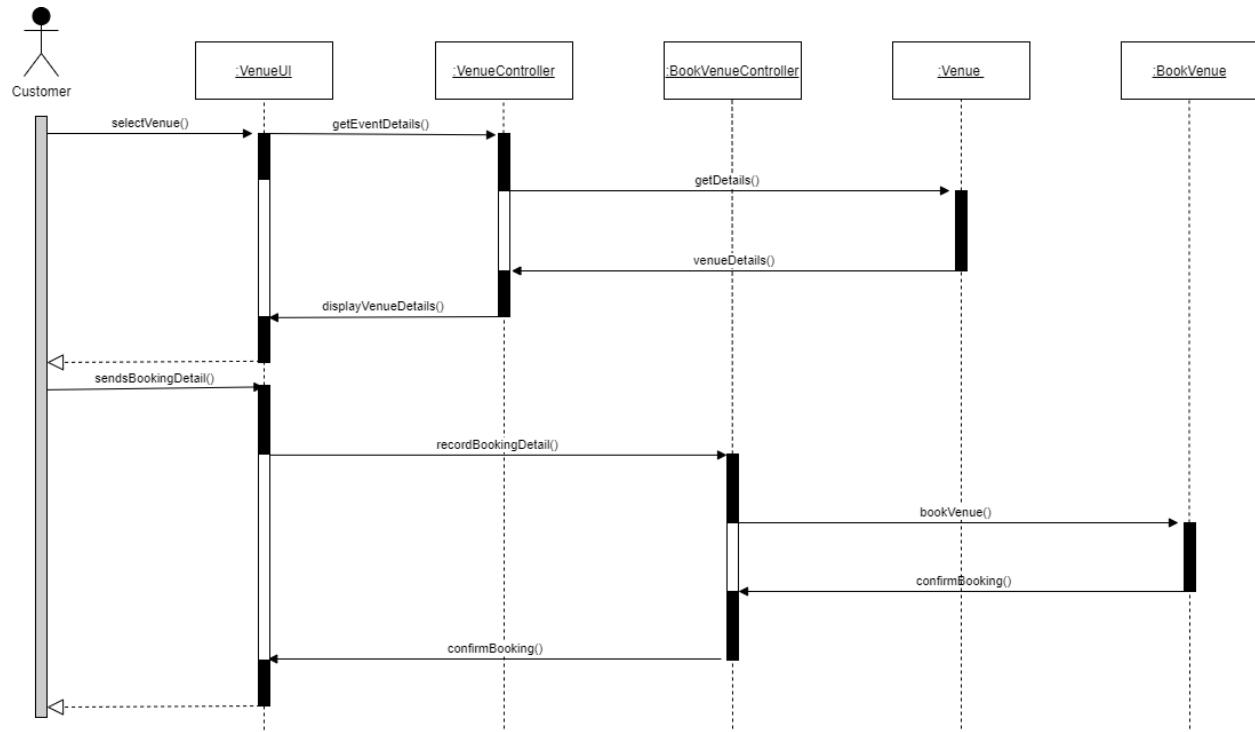


Figure 43: Sequence Diagram: Book Venue.

2.7.4.9. Send Invitation

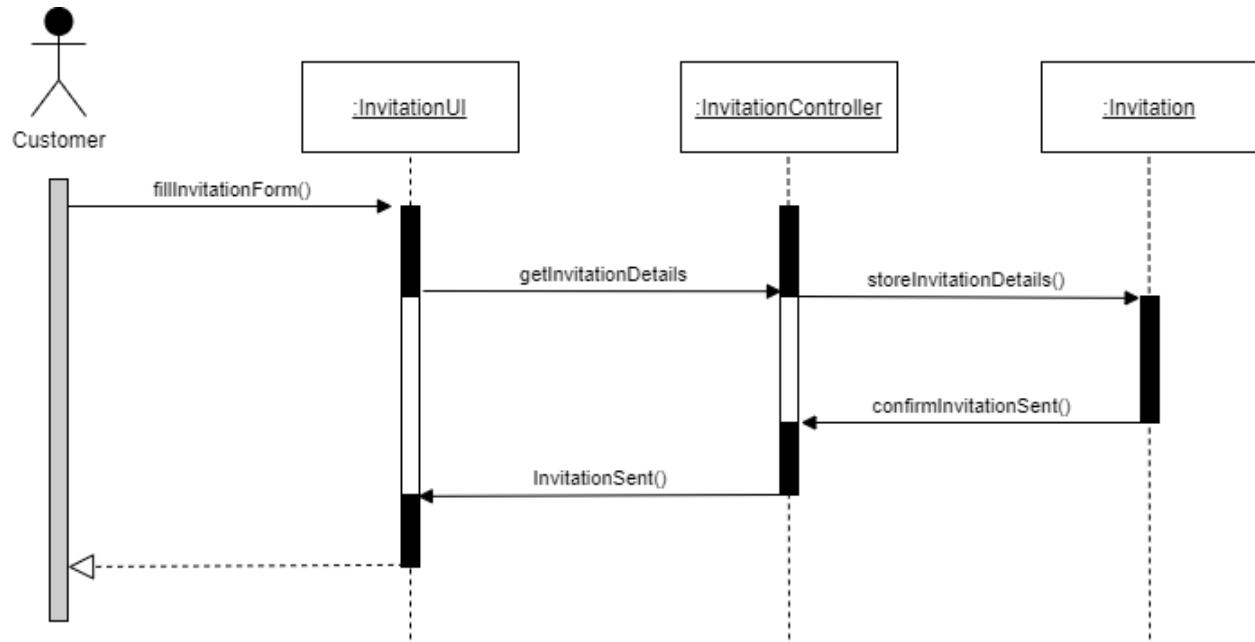


Figure 44: Sequence Diagram: Send Invitation.

2.7.4.10. View Feedback

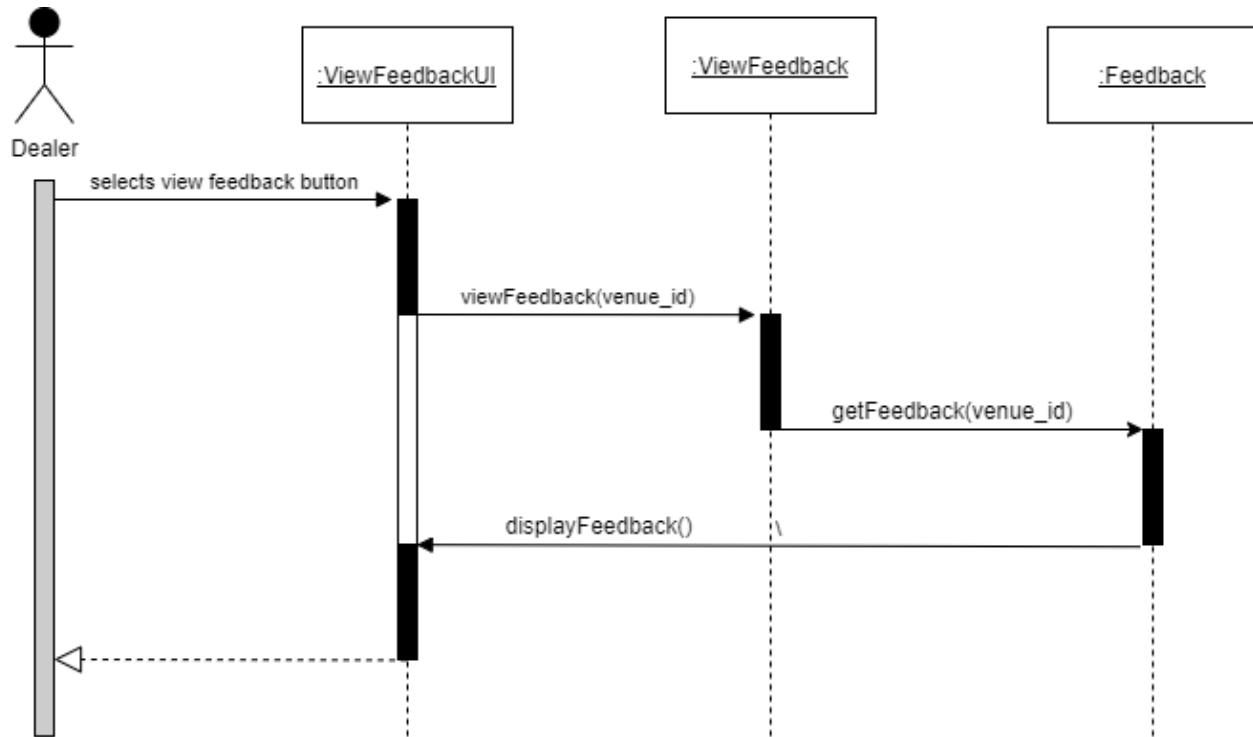


Figure 45: Collaboration Diagram: View Booking Detail.

2.7.4.11. View Booking Detail

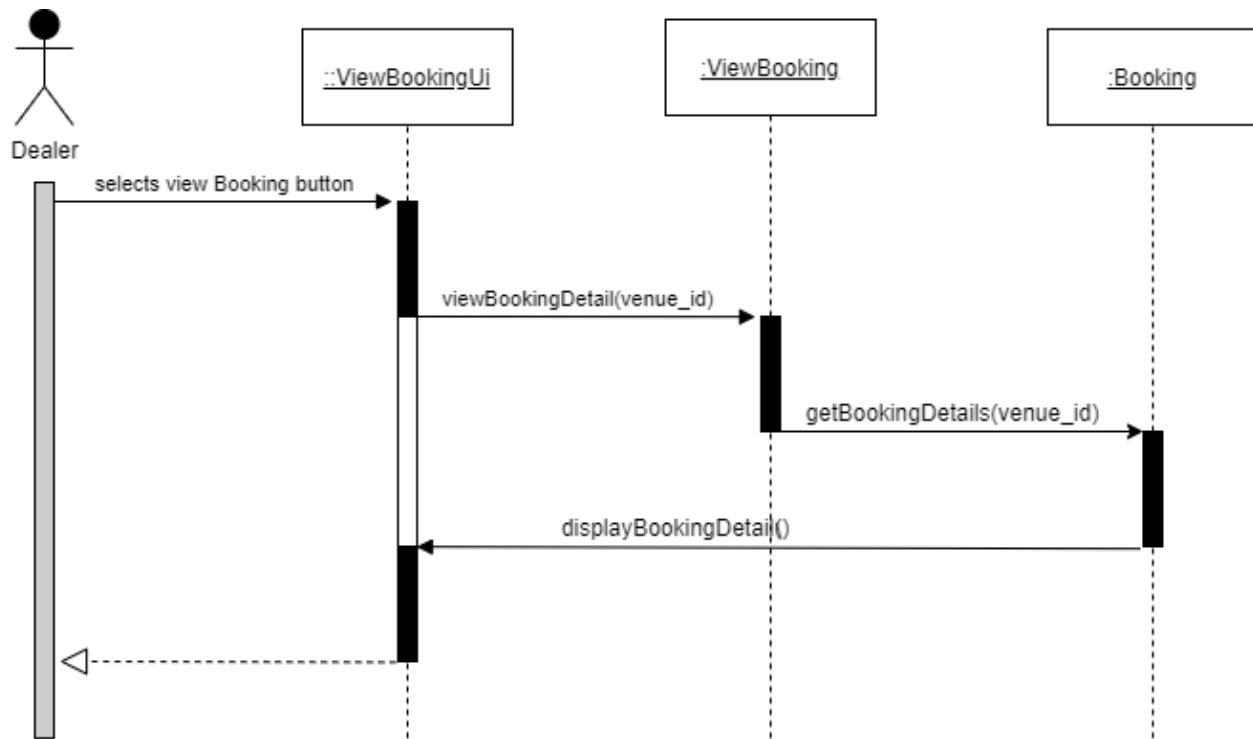


Figure 46: Collaboration Diagram: View Booking Details.

3.7.5. Activity Diagram

3.7.5.1. User Registration

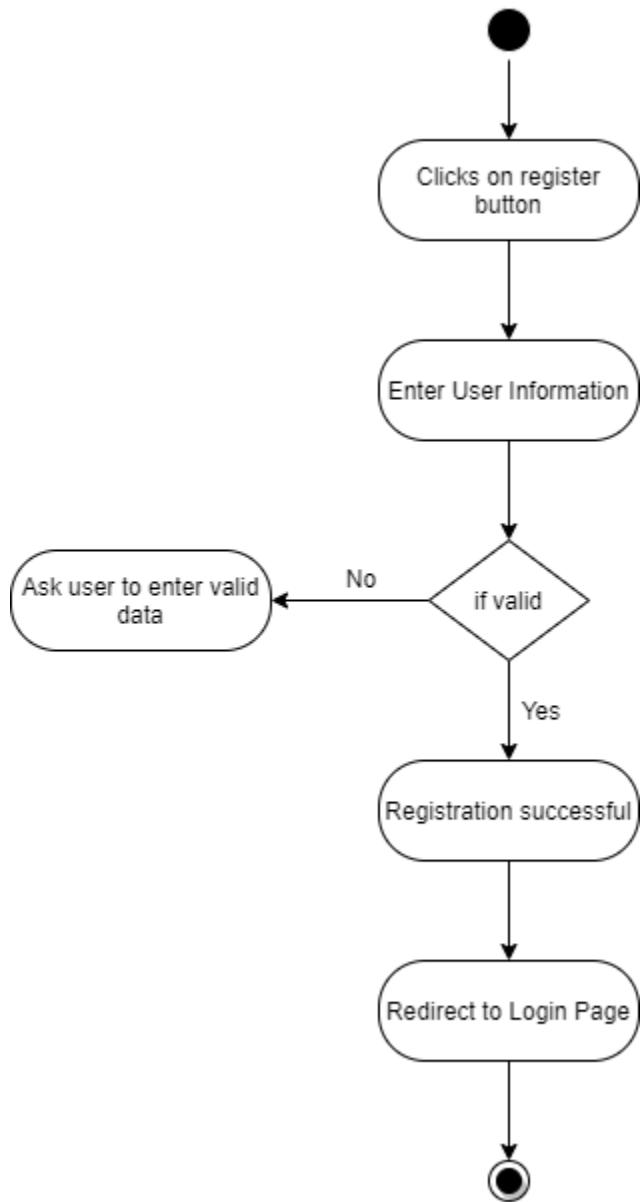


Figure 47: Activity Diagram: User Registration.

3.7.5.2. User Login

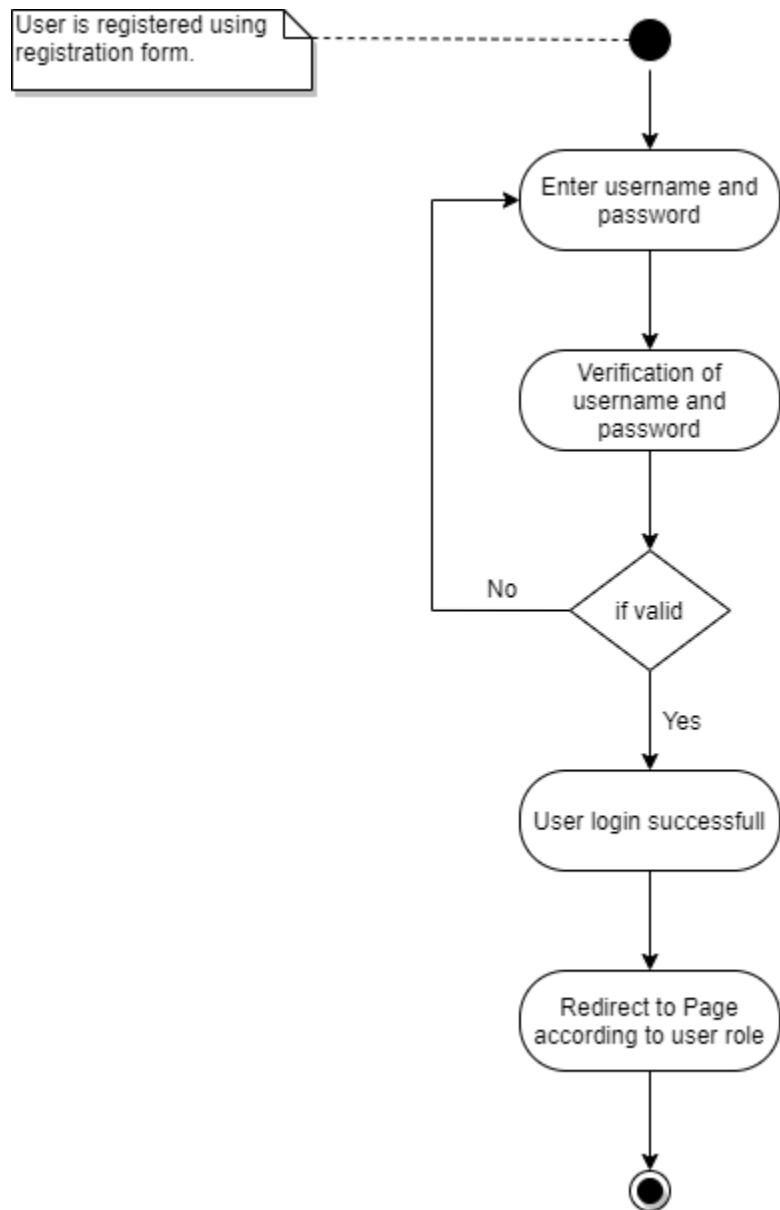


Figure 48: Activity Diagram: user Login.

3.7.5.3. Edit Venue Details

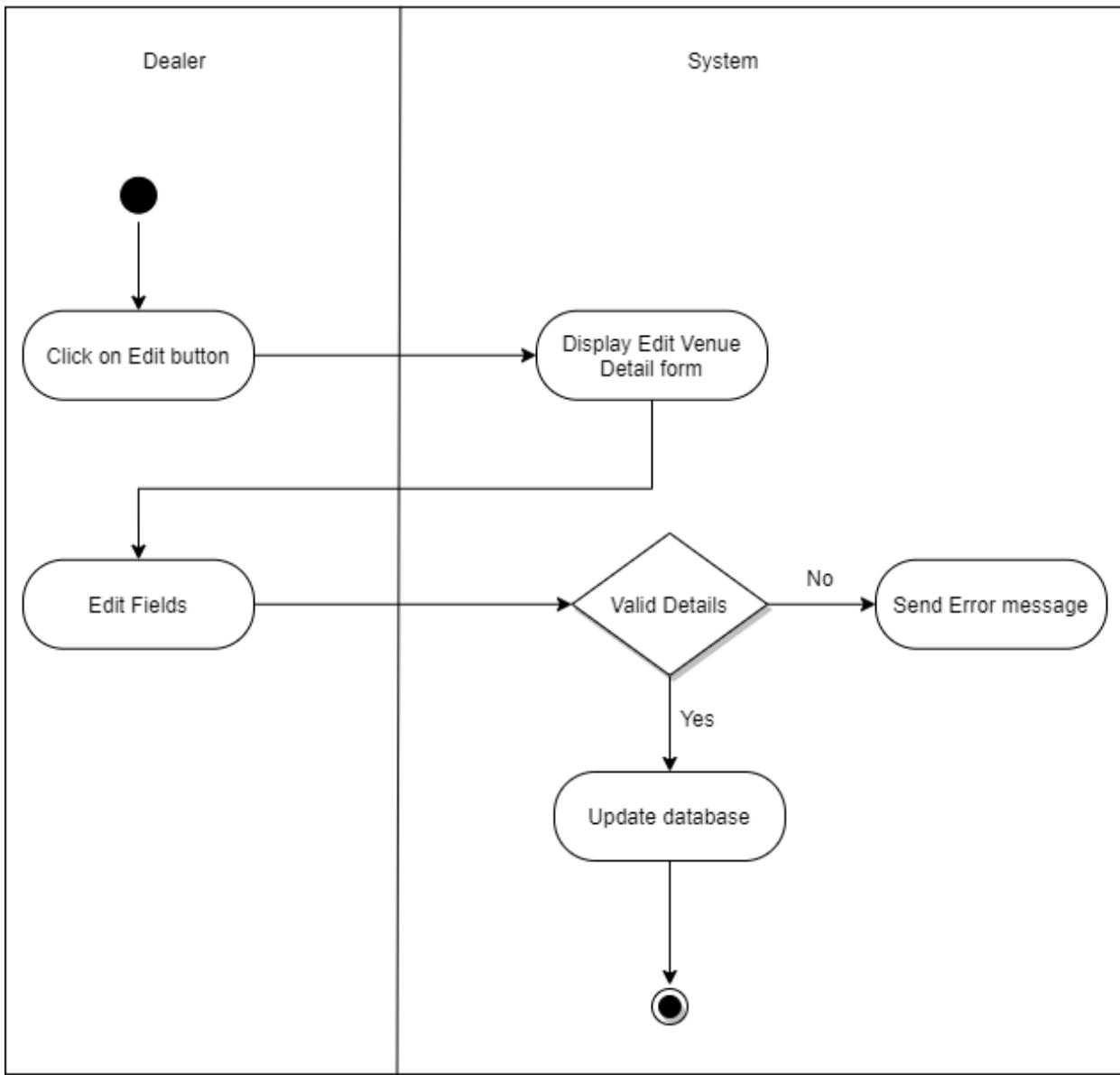


Figure 49: Activity Diagram: Edit Venue Diagram.

3.7.5.4. Delete Venue

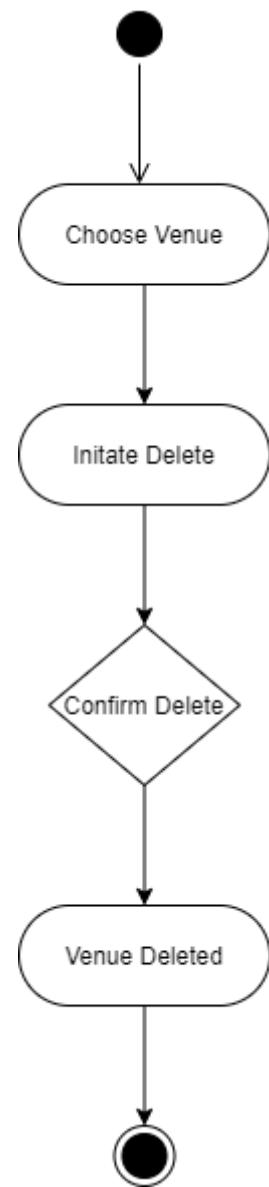


Figure 50: Activity Diagram: Delete Venue.

3.7.5.5. Book Venue

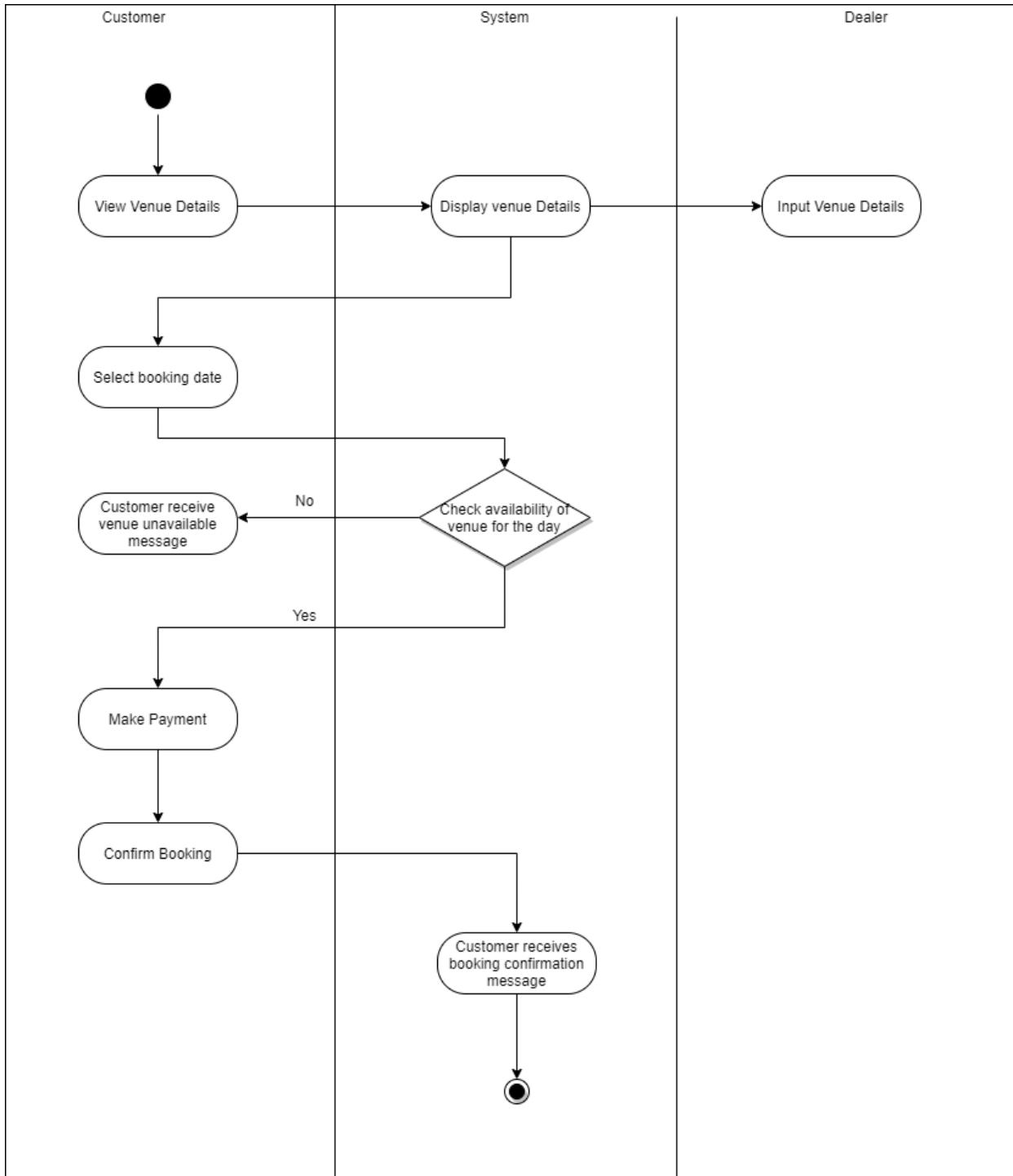


Figure 51: Activity Diagram: Book Venue.

3.7.5.6. Send Feedback

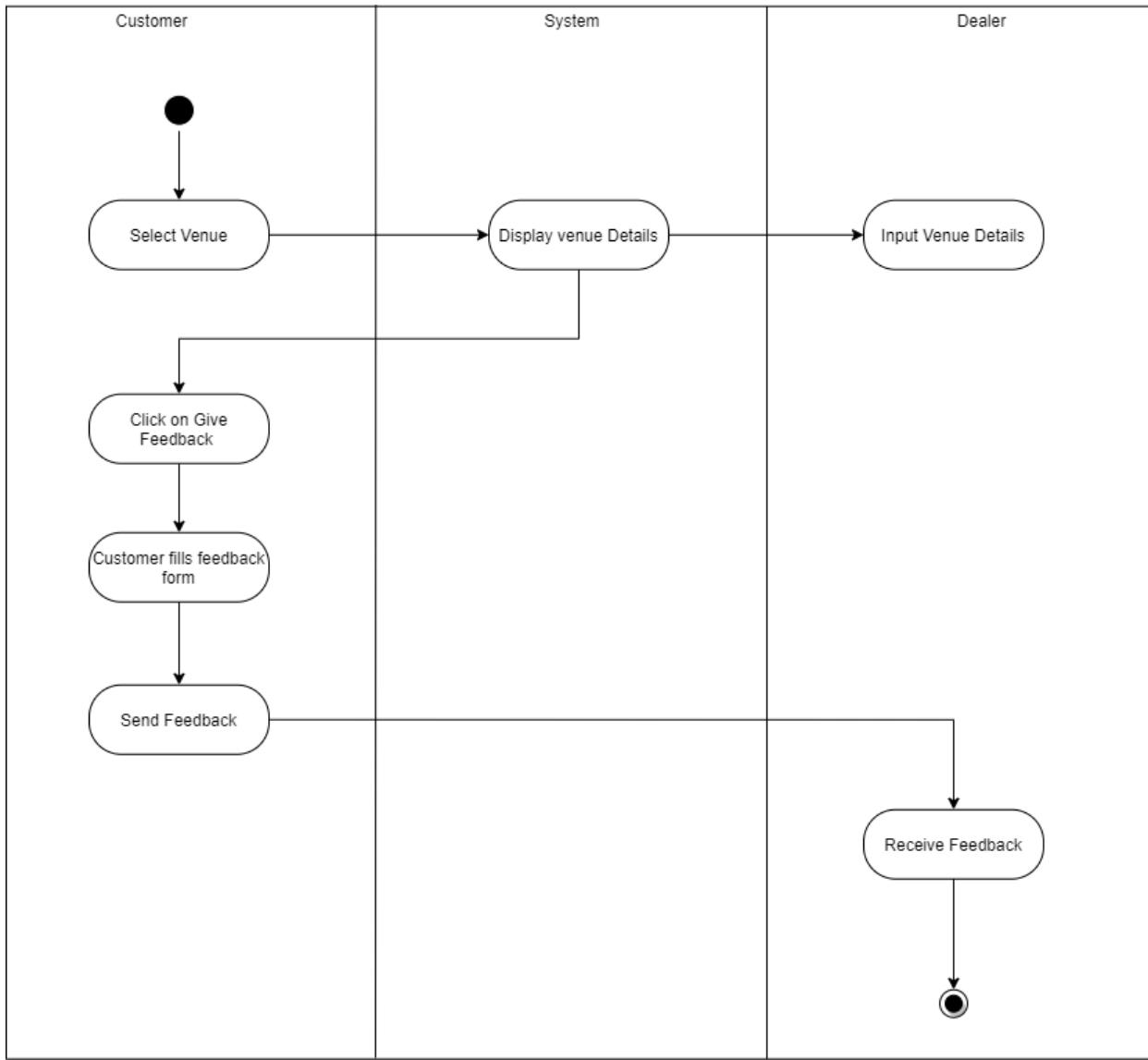


Figure 52: Activity Diagram: Send Feedback.

3.7.6. Implementation

3.7.6.1. Adding Venue

```

from django.db import models
from datetime import datetime
from accounts.models import User
from django.conf import settings
#from ..decorators import dealer_required

from django.contrib.auth.models import User
class Listing(models.Model):
    dealer = models.ForeignKey(settings.AUTH_USER_MODEL,null= True, on_delete=models.CASCADE,)
    title = models.CharField(max_length=200)
    address = models.CharField(max_length=200, default = 'Kathmandu')
    city = models.CharField(max_length=100)
    state = models.CharField(max_length=100)
    description = models.TextField(blank=True)
    price = models.FloatField()
    discounted_price = models.FloatField(blank = True, null =True)
    accomodation = models.IntegerField()
    sqft = models.IntegerField()
    photo_main = models.ImageField(upload_to='photos/%Y/%m/%d/', default='photos/2020/04/02/venue.jpg')
    slug = models.SlugField()
    is_published = models.BooleanField(default=True)
    list_date = models.DateTimeField(default=datetime.now, blank=True)
    def __str__(self):
        return self.title

```

Figure 53: Sample code 1 for adding venue.

```

from django.forms import ModelForm
from django.contrib.auth.forms import UserCreationForm
from django.contrib.auth.models import User
from django import forms

from .models import Listing

class ListingForm(ModelForm):
    class Meta:
        model = Listing
        fields = ('title', 'address', 'city', 'state', 'description', 'price','discounted_price', 'accomodation', 'sqft', 'photo_main',
        'is_published', 'list_date')

```

Figure 54: Sample Code 2 for adding venue.

```
def createVenue(request):
    form_class = ListingForm
    form = form_class(request.POST or None)
    if request.method=='POST':

        if form.is_valid():
            obj = form.save(commit=False)
            obj.dealer = request.user
            print("saved")
            form.save()
            messages.success(request, "Venue Added.")
            return redirect('dashboard_dealer')

    form = ListingForm()
    return render(request, "listings/registervenue.html", {'form': form})
```

Figure 55: Sample code 3 for adding venue.

3.7.6.2. Book Venue

```
from django.db import models
from datetime import datetime

class Book(models.Model):

    listing = models.CharField(max_length= 200)
    listing_id = models.IntegerField()
    name = models.CharField(max_length=200)
    email = models.CharField(max_length=100)
    phone = models.CharField(max_length=100)
    contact_date = models.DateTimeField(default=datetime.now, blank=True)
    booked_date = models.DateField(null=False)
    #status_of_booking = models.IntegerField(choices=STATUS, default=1)
    user_id = models.IntegerField(blank=True)

    def __str__(self):
        return self.name
```

Figure 56: Sample Code 1 for Booking Venue.

```

from .models import Book
from datetime import datetime
from django.shortcuts import get_object_or_404
from background_task import background
from django.db.models import Q
from datetime import datetime

def books(request):
    if request.method == "POST":
        dt = datetime.today()
        listing_id = request.POST['listing_id']
        listing = request.POST['listing']
        name = request.POST['name']
        email = request.POST['email']
        phone = request.POST['phone']
        booked_date = request.POST.get ('booked_date')
        status_of_booking = Book.objects.filter(Q(booked_date__lte = dt)).update(status_of_booking=0)

        user_id = request.POST['user_id']
        dealer_email = request.POST['dealer_email']

        if request.user.is_authenticated:
            user_id = request.user.id
            already_booked = Book.objects.all().filter(listing_id = listing_id, booked_date=booked_date)
            if already_booked:
                print("Booking Date Not Available")
                messages.error(request,'Sorry the venue is booked for the day.')
                return redirect('/listings/'+listing_id)

            books = Book(listing=listing, listing_id=listing_id, name=name, email=email,
            phone=phone,booked_date=booked_date, user_id=user_id)

            books.save()
            messages.success(request, 'You have booked your venue.')
            # return redirect('/listings/'+listing_id)

        return redirect('/listings/payment/')

    ,

```

Figure 57: Sample Code 1 for Booking Venue.

4. Chapter 4: Testing and analysis

4.1. Test Plan

4.1.1. System Testing

Test Case	Test Case
1.	To check if a user can register as Dealer or Customer.
2.	To check if a user can log in to the system using authenticated username and password.
3.	To check if registered Dealer can login to the system.
4.	To check if logged in Dealer can add venue to the system.
5.	To check if logged in Dealer can edit and update their venue details.
6.	To check if logged in Dealer can delete their venue.
7.	To check if Dealer can view their Venue Details.
8.	To check if logged in Dealer can view booking details of the venue.
9.	To check if logged in Dealer can view feedbacks from customers.
10.	To check if Admin can log into the system.
11.	To check if registered Customer can log into the system.
12.	To check if Customer can search venue according to the entered location name.
13.	To check if Customer can search venue according to the entered accommodation number.
14.	To check if Customer can search venue according to the entered price.
15.	To check if logged in Customer can book a venue.
16.	To check if logged in Customer can check its booking list.
17.	To check if logged in Customer can post feedback to the venue.
18.	To check if logged in Customer can send invitation to invitees.

19.	To check if About us page can be viewed.
20.	To check if Featured Listing can be viewed.

Table 23: System Test Plan.

4.1.2. Unit Testing

S.No.	Test Case
1.	To check if a user can log into the system with invalid username and password.
2.	To check if new dealer is created after dealer registration.
3.	To check if new customer is created after customer registration.
4.	To check for empty field validation in Login Form.
5.	To check if registration form is validated or not.
6.	To check if user can register with username that already exists.
7.	To check if register venue form is validated or not.
8.	To check if form is validated when editing the venue details.
9.	To check if dealer can cancel deletion of the venue.
10.	To check if customer can book venue with the date that the venue is already booked for.
11.	To check if customer can book without logging in.

Table 24: Unit Test Plan.

4.2. System Testing

4.2.1. To check if user can register as Dealer or Customer.

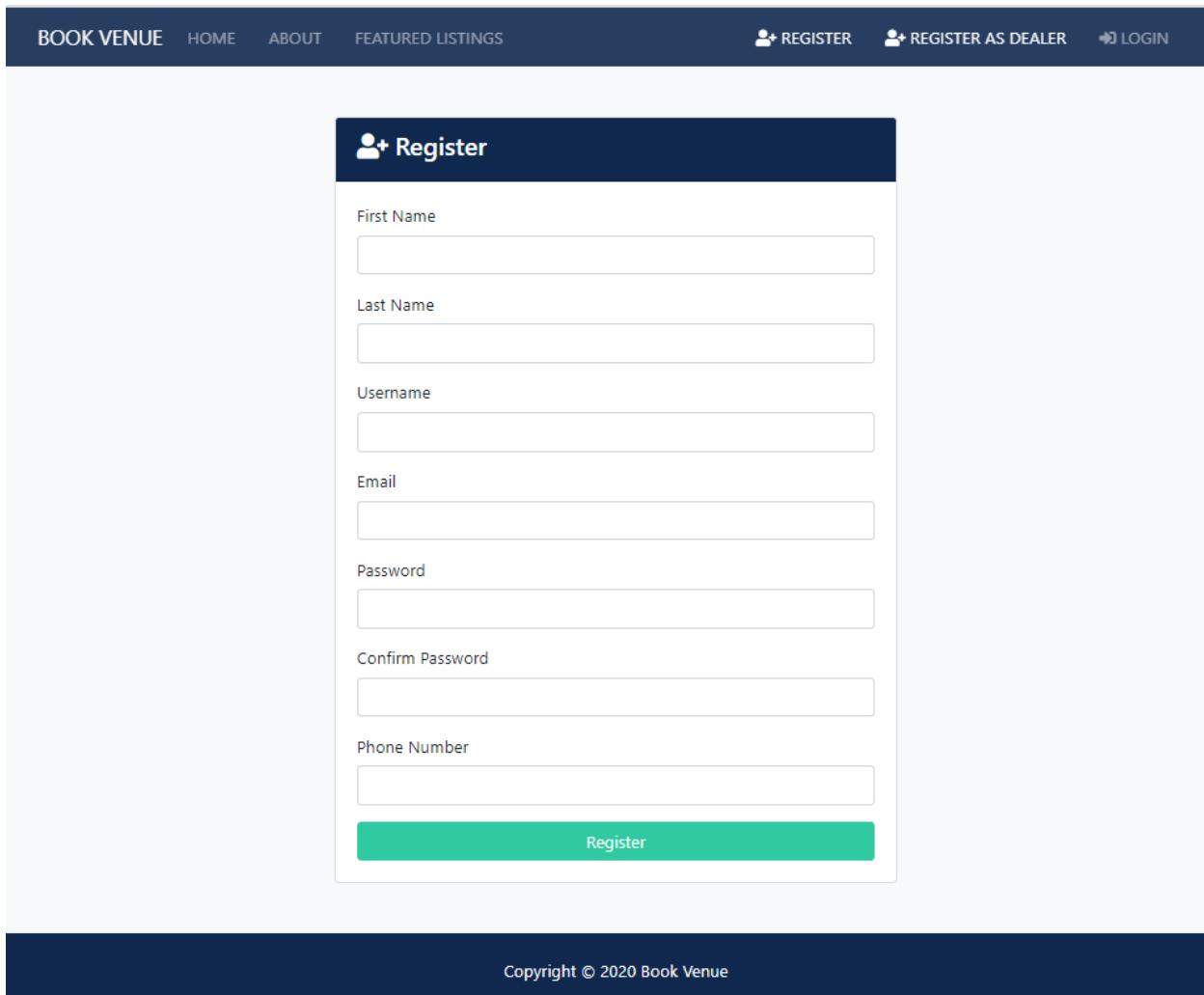
Objective	To check if user can register as Dealer or Customer
Action	<ol style="list-style-type: none"> 1. Clicks on Register as Dealer Button to register as dealer. 2. Clicks on Register Button to register as customer.
Expected Result	Registration form will be displayed and after submitting the form, the user should be directed to Login page.
Actual Result	Registration form is displayed. After the submission of the form, user is redirected to Login Page.
Conclusion	Test Successful.

Table 25: Test: User Registration.

The screenshot shows a website for booking venues. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', and 'FEATURED LISTINGS'. On the right side of the navigation bar are three buttons: 'REGISTER' (with a red box around it), 'REGISTER AS DEALER' (with a red box around it), and 'LOGIN'. Below the navigation bar is a large search form titled 'Find Your Venue!' with the subtext 'We help you find best venue for your day!'. The search form includes fields for 'City' and 'State', dropdown menus for 'Accommodation (All)' and 'Max Price (Any)', and a large green 'Search' button. The background of this section features a blurred image of a venue with warm lighting. Below this is a section titled 'Latest Listings' featuring three venue options:

- Paradise** (Kathmandu, Kathmandu) - Price: Rs.30,000.0
- Shree Nath** (Kathmandu, Kathmandu) - Price: Rs.12,000.0
- Ever Green1** (Kathmandu, Kathmandu) - Discounted Price: Rs.15000.0

Figure 58: Register Button For Customer and Dealer Respectively.



The screenshot shows a registration form titled "Register" on a website. The form fields are as follows:

- First Name: An input field for entering a first name.
- Last Name: An input field for entering a last name.
- Username: An input field for creating a unique username.
- Email: An input field for entering an email address.
- Password: An input field for entering a password.
- Confirm Password: An input field for re-entering the password to verify it.
- Phone Number: An input field for entering a phone number.

At the bottom of the form is a green "Register" button. The entire registration section is set against a white background with a dark blue header and footer.

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Figure 59: Registration Form.

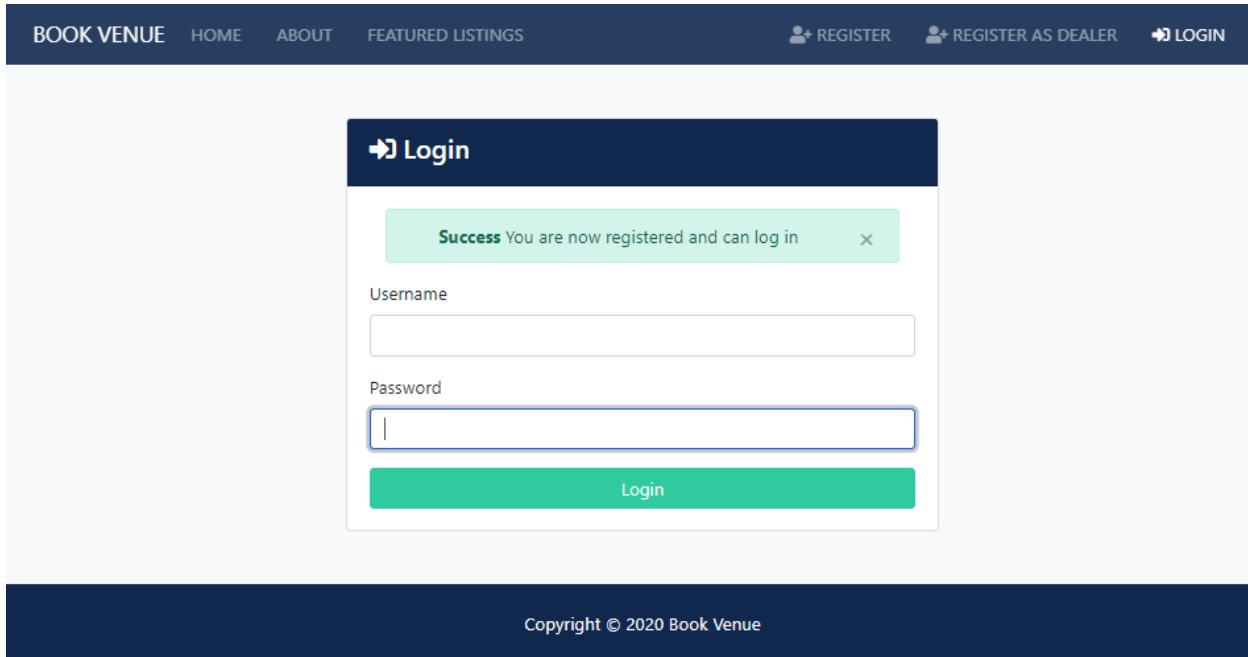


Figure 60: Successful Registration as Customer.

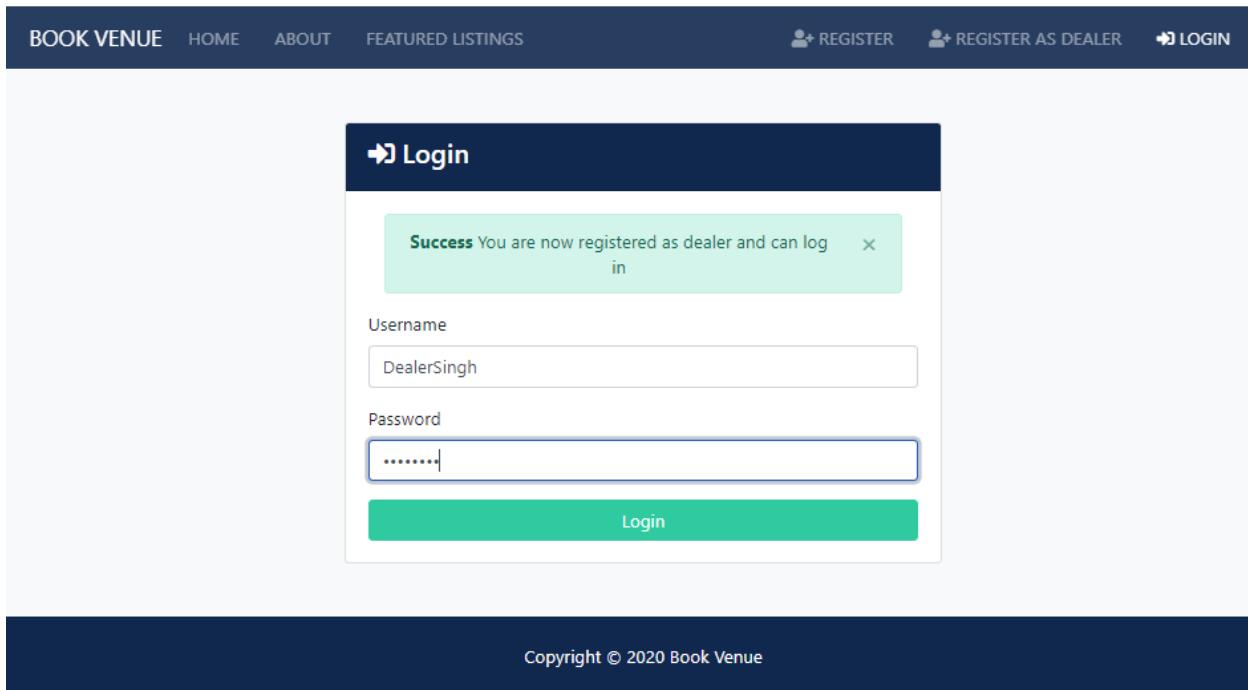


Figure 61: Successfully Registered as Dealer.

4.2.2. To check if user can log in to the system using authenticated username and password.

Objective	To check if a user can log in to the system using authenticated username and password.
Action	The user enters correct username and password to log into the system.
Expected Result	The user must be successfully logged into the system directed to the dashboard
Actual Result	The user is authenticated and directed to the dashboard page.
Conclusion	Test Successful.

Table 26: Test: Login Authentication.

The screenshot shows a login form on a website. At the top, there is a dark header bar with navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', and three registration/login options: 'REGISTER', 'REGISTER AS DEALER', and 'LOGIN'. Below the header is a large, light-colored login box. The box has a dark blue header with the text 'Login' and a right-pointing arrow icon. Inside the box, there are two input fields: 'Username' containing 'matinatuladhar' and 'Password' containing '.....'. Below the password field is a green 'Login' button. At the bottom of the page, there is a dark footer bar with the copyright notice 'Copyright © 2020 Book Venue'.

Figure 62: Enter correct username and password.

The screenshot shows the 'MatinaTuladhar Dashboard' page. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME MATINATULADHAR (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, the main title 'MatinaTuladhar Dashboard' is displayed. A breadcrumb navigation 'Home / Dashboard' is shown above a success message 'Success You are now logged in'. The dashboard features a large placeholder for a user profile picture. Below the placeholder, a box displays the user's details: First Name: Matina, Second Name: Tuladhar, Email Address: tuladharmatina12@gmail.com, and Contact Number: 9841570061. A section titled 'Venues you have given feedback to.' lists one venue: Ever Green1, with a 'View Listing' button. Another section titled 'Here are the Venues that you have booked.' includes a 'View Your Booking' button. The footer contains the copyright notice 'Copyright © 2020 Book Venue'.

Figure 63: Redirected to dashboard on successful login authentication.

4.2.3. To check if registered Dealer can login to the system

Objective	Login as dealer and redirect to dashboard.
Action	The dealer enters username and password to log into the system.
Expected Result	The authenticated dealer should be redirected to respective dashboard.
Actual Result	The authenticated dealer is redirected to respective dashboard.
Conclusion	Test Successful.

Table 27: Test: Login as Dealer.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER REGISTER AS DEALER LOGIN

► Login

Success You are now registered as dealer and can log in

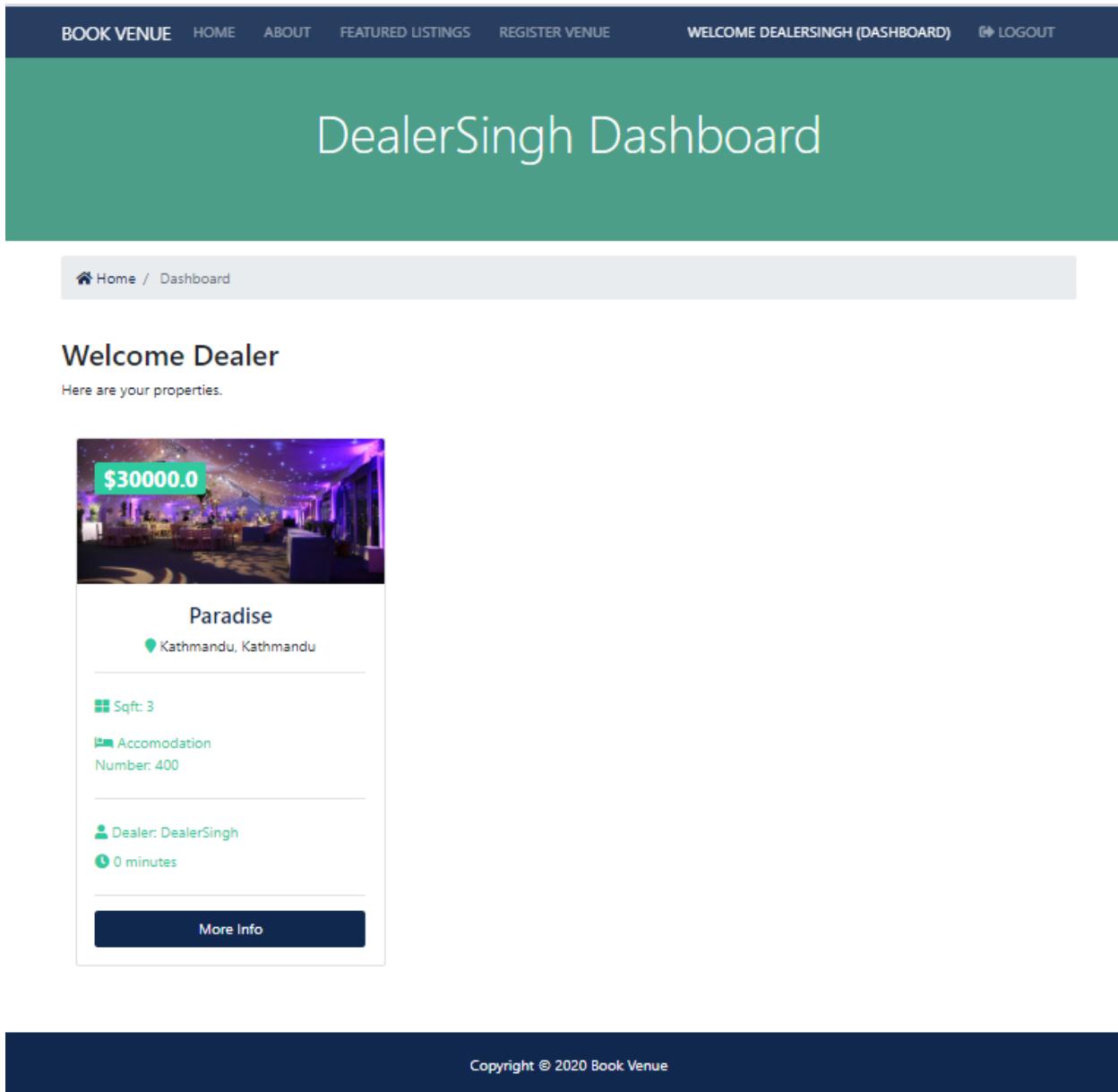
Username
DealerSingh

Password
.....

Login

Copyright © 2020 Book Venue

Figure 64: Fill Login Form.



The screenshot shows the DealerSingh Dashboard. At the top, there is a dark header bar with navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the header, the main title 'DealerSingh Dashboard' is displayed in large white text on a teal background. Underneath the title, a breadcrumb navigation shows 'Home / Dashboard'. The main content area is titled 'Welcome Dealer' and includes a message 'Here are your properties.' A large image of a venue, labeled '\$30000.0', is shown. Below the image, the venue is identified as 'Paradise' located in 'Kathmandu, Kathmandu'. It has 'Sqft: 3' and 'Accommodation Number: 400'. The dealer information shows 'Dealer: DealerSingh' and '0 minutes'. A 'More Info' button is at the bottom. At the bottom of the page, a dark footer bar contains the copyright notice 'Copyright © 2020 Book Venue'.

Figure 65: Directed to Dealer's Dashboard.

4.2.4. To check if logged in dealer can add venue to the system

Objective	To check if logged in dealer can add venue to the system.
Action	The dealer logs into the system and clicks on the register venue button and fills up the form.
Expected Result	The venue details will be added to the dealer's Dashboard and Featured Listing Page of the system.
Actual Result	The venue details are added to the dealer's Dashboard and Featured Listing Page of the system.
Conclusion	Test Successful.

Table 28: Test: Register Venue.

The screenshot shows a web application interface for registering a venue. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, a breadcrumb trail indicates the current location: 'Home / Register Venue'. The main content area has a dark header with the text '+ Register Venue' and a user icon. The form fields are as follows:

- Venue Name: Paradise
- Address: Kamaladi
- City: Kathmandu
- State: Kathmandu
- Description: This is a venue. Located at the heart of the country, it is a very attractive...
- Price: 30000
- Discounted Price: (empty field)
- Accommodation Number: 400
- Sqft: 3
- Photo Main: Choose File venue.jpg

Figure 66: Form to Register Venue.

The screenshot shows the DealerSingh Dashboard. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, the main title 'DealerSingh Dashboard' is displayed. A breadcrumb navigation 'Home / Dashboard' is shown above a success message 'Success Venue Added.' with a close button 'X'. The main content area features a heading 'Welcome Dealer' and a sub-heading 'Here are your properties.' Below this, a venue listing for 'Paradise' is shown. The listing includes a thumbnail image of a well-lit event space, a price of '\$30000.0', the name 'Paradise', the location 'Kathmandu, Kathmandu', and several details: 'Sqft: 3', 'Accommodation Number: 400', 'Dealer: DealerSingh', and '0 minutes'. A 'More Info' button is at the bottom. The footer of the page contains the text 'Copyright © 2020 Book Venue'.

Figure 67: Venue Details added to the system.

4.2.5. To check if logged in dealer can edit and update their venue details

Objective	Dealer can update the Venue Details.
Action	The dealer clicks on the Edit Button, it is redirected to update detail form.
Expected Result	The authenticated dealer will be able to update the details of venue.
Actual Result	The authenticated dealer is able to update details and is redirected to dealer dashboard.
Conclusion	Test Successful.

Table 29: Test: Edit Venue Details.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALER1 (DASHBOARD) LOGOUT

Ever Green1
Kathmandu, Kathmandu

Home / Listings / Ever Green1

Back To Listings

Asking Price: RS.20,000.00 Square Feet: 3

Property Dealer
Dealer1

Edit (button highlighted with a red box)

Delete

View Booking

View Feedback

Figure 68: Button to Edit Venue Details.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALER1 (DASHBOARD) LOGOUT

Home

Edit

Title: Ever Green1

Address: Jama

City: Kathmandu

State: Kathmandu

This is another Venue. Lorem ipsum dolor sit, amet consectetur adipisicing elit. Recusandae quas, asperiores eveniet vel nostrum magnamvoluptatum tempore! Consectetur, id commodisit, amet consectetur adipisicing elit. Recusandae quas, asperiores eveniet vel nostrum magnamvoluptatum tempore! Consectetur, id.

Description:

Price: 20000.0

Discounted price: 15000.0

Accomodation: 100

Sqft: 3

Photo main: Currently: photos/2020/04/02/venue.jpg

Change: No file chosen

Figure 69 : Form to Edit Venue Details.

The screenshot shows the Dealer1 Dashboard. At the top, there is a dark blue header bar with navigation links: BOOK VENUE, HOME, ABOUT, FEATURED LISTINGS, REGISTER VENUE, WELCOME DEALER1 (DASHBOARD), and LOGOUT. Below the header, a large teal section displays the title "Dealer1 Dashboard". Underneath, a breadcrumb navigation bar shows "Home / Dashboard". A green success message box displays "Success Data Updated." with a close button "X". The main content area is titled "Welcome Dealer1" and contains the message "Here are your properties." It features a listing for "Ever Green1", a venue located in Kathmandu, Kathmandu. The listing includes a thumbnail image of a well-lit event space, the name "Ever Green1", the location "Kathmandu, Kathmandu", and several details: "Sqft: 3", "Accommodation Number: 100", "Dealer: Dealer1", and a small "Edit" icon.

Figure 70: Venue Details Updated.

4.2.6. To check if logged in Dealer can delete their venue

Objective	To check if logged in Dealer can delete their venue
Action	The dealer clicks on the Delete Button and confirm deletion.
Expected Result	The authenticated dealer will be able to delete the venue.
Actual Result	The authenticated dealer is able to delete details and is redirected to dealer dashboard.
Conclusion	Test Successful.

Table 30: Test: Delete Venue.

The screenshot shows the DealerSingh Dashboard. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, the main title 'DealerSingh Dashboard' is displayed. A breadcrumb navigation shows 'Home / Dashboard'. A success message 'Success You are now logged in' is visible. The main content area features a listing for a venue named 'Paradise' located in Kathmandu, Kathmandu. The listing includes a thumbnail image of a well-lit event space, a price of '\$30000.0', and details such as Sqft: 3, Accommodation Number: 400, Dealer: DealerSingh, and a response time of 17 hours, 1 minute. A 'More Info' button is at the bottom of the listing.

Figure 71: Dealer Page before deleting Venue.

The screenshot shows a venue listing for "Paradise" in Kathmandu, Nepal. The listing includes a photo of the venue, details about the property dealer (DealerSingh), and buttons for Edit, Delete, View Booking, and View Feedback.

Property Dealer: DealerSingh

Delete (button highlighted with a red border)

View Booking

View Feedback

Figure 72: Delete Button.

The screenshot shows a confirmation dialog box titled "Delete Venue" asking if the user is sure they want to delete the venue "Paradise". It has "Cancel" and "Confirm" buttons.

Are you sure you want to delete "Paradise"?

Cancel **Confirm**

Figure 73: Delete Venue Confirmation Page.

The screenshot shows the DealerSingh Dashboard. At the top, there is a dark blue header bar with white text. From left to right, the header contains: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the header is a large teal-colored main area with the text 'DealerSingh Dashboard' in white. Underneath this, there is a light gray navigation bar with a home icon and the text 'Home / Dashboard'. The main content area has a dark blue background with white text. It starts with 'Welcome Dealer' and 'Here are your properties.' followed by 'No Listings Available'. At the bottom of this section, it says 'Copyright © 2020 Book Venue'.

Figure 74: Dealer Page after Deleting Venue.

4.2.7. To check if dealer can view their venue details

Objective	To check if dealer can view their venue details.
Action	The dealer clicks on More Info Button.
Expected Result	The dealer will be able to View Details of selected venue, with Edit, Delete, View Booking and View Feedback Buttons.
Actual Result	The dealer is able to View Details of selected venue, with Edit, Delete, View Booking and View Feedback Buttons.
Conclusion	Test Successful.

Table 31: Test: View Venue Details.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALERSINGH (DASHBOARD) LOGOUT

DealerSingh Dashboard

[Home](#) / [Dashboard](#)

Welcome Dealer

Here are your properties.

\$30000.0

Paradise

Kathmandu, Kathmandu

Sqft: 4

Accommodation
Number: 400

Dealer: DealerSingh
7 minutes

[More Info](#)

Copyright © 2020 Book Venue

Figure 75: Dealer's Venue.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALERSINGH (DASHBOARD) LOGOUT

Paradise

Kathmandu, Kathmandu

[Home](#) / [Listings](#) / [Paradise](#)

[Back To Listings](#)



Property Dealer
DealerSingh

[Edit](#)

[Delete](#)

[View Booking](#)

[View Feedback](#)

Asking Price:	Rs.30,000.0	Square Feet:	4
Final Price:	Rs.None	Lot Size:	Acres
Accommodation Number:	400	Listing Date:	June 3, 2020, 4:06 p.m.
Dealer:	DealerSingh		

This is a venue. Located at the heart of the country, it is a very attractive location.

Copyright © 2020 Book Venue

Figure 76: Venue Details.

4.2.8. To check if logged in Dealer can view booking details of their venue

Objective	To check if logged in Dealer can view booking details of their venue.
Action	The dealer selects a venue and clicks on View Booking Button.
Expected Result	<ol style="list-style-type: none"> 1. System will display list of Customers who have booked the venue. 2. System will display “No Booking Yet” message if no customer has booked the venue yet.
Actual Result	<ol style="list-style-type: none"> 1. System displays list of Customers who have booked the venue. 2. System displays “No Booking Yet” message if no customer has booked the venue yet.
Conclusion	Test Successful.

Table 32: Test: View Booking.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALERSINGH (DASHBOARD) [LOGOUT](#)

Paradise

Kathmandu, Kathmandu

[Home](#) / [Listings](#) / Paradise

[Back To Listings](#)



Property Dealer
DealerSingh

[Edit](#)

[Delete](#)

[View Booking](#)

[View Feedback](#)

₹ Asking Price:	RS.30,000.0	■ Square Feet:	4
₹ Final Price:	RS.None	■ Lot Size:	Acres
▢ Accommodation Number:	400	🕒 Listing Date:	June 3, 2020, 4:06 p.m.
👤 Dealer:	DealerSingh		

Figure 77: View Booking Button.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALERSINGH (DASHBOARD) [LOGOUT](#)

Booking Detail

Venue Name	Customer Name	Customer Email	Customer Contact Number	Booked Date
Paradise	Matina Tuladhar	tuladharmatina12@gmail.com	9841570061	Dec. 12, 2020

Copyright © 2020 Book Venue

Figure 78: View Booking Details.

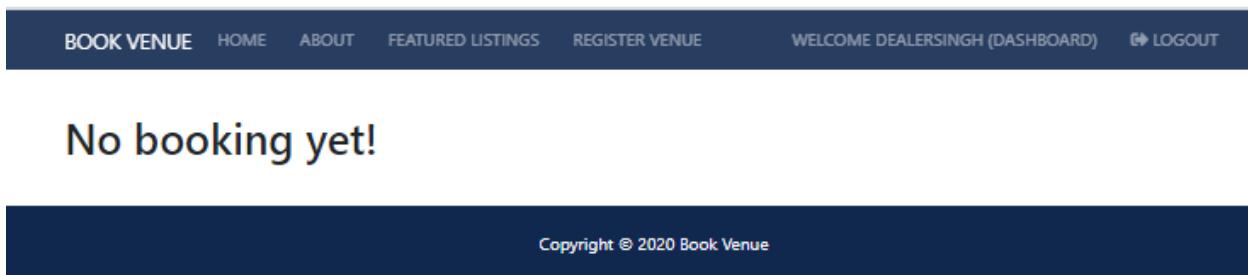


Figure 79: "No Booking Yet" Displayed.

4.2.9. To check if logged in Dealer can view feedbacks from customers

Objective	To check if logged in Dealer can view feedbacks from customers.
Action	The dealer selects a venue and clicks on View Feedback Button.
Expected Result	<ol style="list-style-type: none"> 1. System will display list of Customers along with their feedback. 2. System will display “No Feedbacks Yet” message if no customer has given feedback to the venue yet.
Actual Result	<ol style="list-style-type: none"> 1. System displays list of Customers along with their feedback. 2. System displays “No Feedbacks Yet” message if no customer has given feedback to the venue yet.
Conclusion	Test Successful.

Table 33: Test: View Feedbacks.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALERSINGH (DASHBOARD) LOGOUT

Paradise

Kathmandu, Kathmandu

Home / Listings / Paradise

[Back To Listings](#)



Property Dealer
DealerSingh

[Edit](#)

[Delete](#)

[View Booking](#)

[View Feedback](#)

Asking Price:	RS.30,000.0	Square Feet:	4
Final Price:	RS.None	Lot Size:	Acres
Accommodation Number:	400	Listing Date:	June 3, 2020, 4:06 p.m.
Dealer:	DealerSingh		

Figure 80: View Feedback Button.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER VENUE WELCOME DEALERSINGH (DASHBOARD) LOGOUT

Feedbacks

Venue Name	Customer Name	Customer Email	Customer Contact Number	Message
Paradise	Matina Tuladhar	tuladharmatina12@gmail.com	9841570061	Very Good Services! Will visit again!

Copyright © 2020 Book Venue

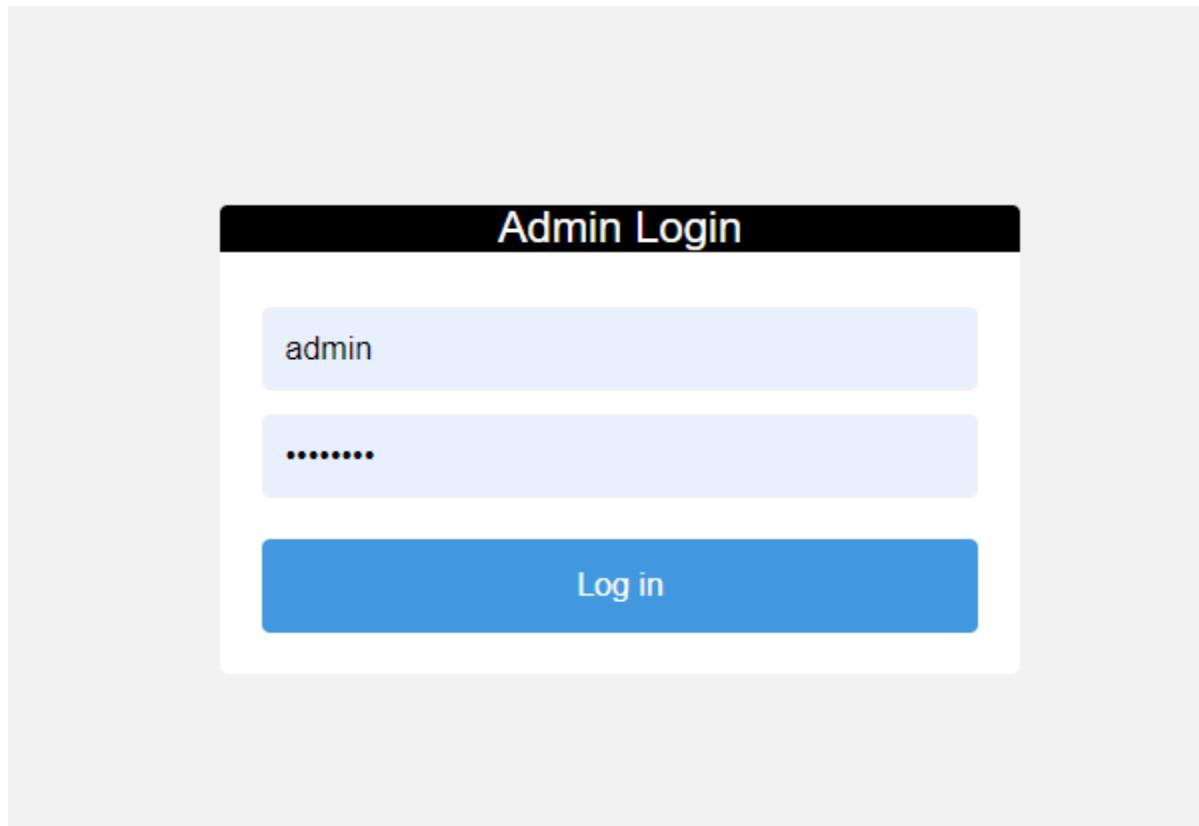
Figure 81: View Feedbacks.



Figure 82: "No Feedbacks Yet" Displayed.

4.2.10. To check if Admin can log into the system

Objective	To check if Admin can log into the system.
Action	The admin enters username and password to log into the system.
Expected Result	The authenticated admin should be redirected to admin dashboard.
Actual Result	The authenticated admin is redirected to admin dashboard.
Conclusion	Test Successful.

Table 34: Test for Admin Login.*Figure 83: Admin Login Page.*

The screenshot shows the Django admin dashboard. At the top, there's a dark header bar with the text "Admin Area" on the left and "Welcome, admin View site / Change password / Log out" on the right. Below this is a navigation bar with three tabs: "Accounts", "Background Tasks (1.2.5)", and "Listings".

The main content area is divided into several sections:

- Accounts**: A table with one row labeled "Users" and two actions: "Change" and "Add".
- Background Tasks (1.2.5)**: A table with two rows: "Completed tasks" and "Tasks", each with "Add" and "Change" actions.
- Listings**: A table with one row labeled "Listings" and two actions: "Change" and "Add".

On the right side of the dashboard, there's a sidebar titled "My actions" which says "None available".

At the bottom of the dashboard, there's a footer bar with links: "Support", "Licence", "Report a bug", "Copyright © 2013-2020 DjangoSuit.com", "Developed by DjangoSuit.com", "Activate Windows" (with a link to "Go to Settings to activate Windows."), and "Book Venue Admin".

Figure 84: Admin Dashboard.

4.2.11. To check if registered Customer can Log into the system

Objective	To check if registered Customer can Log into the system.
Action	The customer enters username and password to log into the system.
Expected Result	The authenticated customer should be redirected to landing page.
Actual Result	The authenticated customer is redirected to landing.
Conclusion	Test Successful.

Table 35: Test: Customer Login.

The screenshot shows a web application interface. At the top, there is a dark blue header bar with white text. On the left, it says 'BOOK VENUE' followed by navigation links: 'HOME', 'ABOUT', and 'FEATURED LISTINGS'. On the right, there are three buttons: 'REGISTER' (with a user icon), 'REGISTER AS DEALER' (with a user icon), and 'LOGIN' (with a lock icon). Below the header is a light gray content area containing a 'Login' form. The form has a dark blue header with the 'LOGIN' button icon and text. It contains two input fields: 'Username' with the value 'Customer Test' and 'Password' with several dots indicating the password. At the bottom of the form is a green 'Login' button. At the very bottom of the page, there is a dark blue footer bar with white text that reads 'Copyright © 2020 Book Venue'.

Figure 85: Customer Login.

The screenshot shows a web application for booking venues. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME CUSTOMER TEST (DASHBOARD)', and 'LOGOUT'. A large central search box contains the placeholder text 'Find Your Venue!'. Below it, a sub-section says 'We help you find best venue for your day!' with input fields for 'City' and 'State', and dropdown menus for 'Accommodation (All)' and 'Max Price (Any)'. A green 'Search' button is at the bottom of this section. A success message 'Success You are now logged in' is displayed in a green bar at the bottom. Below this, a section titled 'Latest Listings' shows three venue options: 'Paradise' (Rs.30,000.0), 'Shree Nath' (Rs.12,000.0), and 'Ever Green1' (Rs.15,000.0). Each listing includes a thumbnail image, the venue name, location ('Kathmandu, Kathmandu'), price, accommodation number, dealer information ('Dealer: DealerSingh' or 'Dealer: Dealer3'), and a date of listing. A 'More Info' button is at the bottom of each listing card.

Figure 86: Redirected to Landing Page.

4.2.12. To check if Customer can search venue name according to the entered location name

Objective	To check if Customer can search venue name according to the entered location name.
Action	The user enters the city name in the search bar.
Expected Result	<ol style="list-style-type: none"> System should show the venues located at the specified location. System should say "No listing available if no venue listed are located in specified city.
Actual Result	<ol style="list-style-type: none"> System shows the venues located at the specified location. System displays, "No listing available if no venue listed are located in specified city.
Conclusion	Test Successful.

Table 36: Search Venue located at specific city.

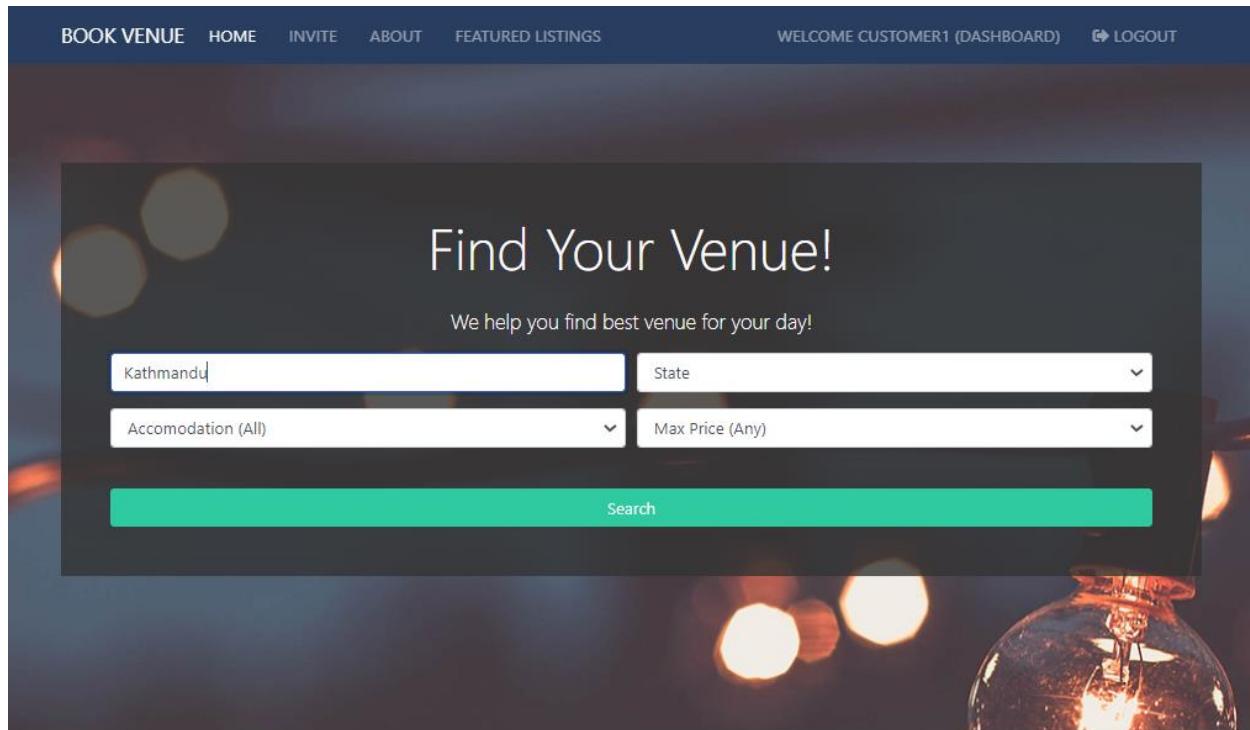


Figure 87: Search Bar for venue.

The screenshot shows the Book Venue application interface. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME CUSTOMER1 (DASHBOARD)', and 'LOGOUT'. Below the navigation bar is a search form with fields for 'City' (set to 'Kathmandu'), 'State' (dropdown menu), 'Accommodation' (dropdown menu), 'Max Price' (dropdown menu), and a 'Search' button. The main content area displays search results for venues in Kathmandu, Kathmandu. Three venues are listed:

- Paradise**: Located in Kathmandu, Kathmandu. It has a price of \$30,000.0, Sqft: 3, Accommodation Number: 400, and is listed by DealerSingh. It was updated 1 hour, 28 minutes ago. A 'More Info' button is available.
- Shree Nath**: Located in Kathmandu, Kathmandu. It has a price of \$12,000.0, Sqft: 4, Accommodation Number: 150, and is listed by Dealer3. It was updated 1 month, 3 weeks ago. A 'More Info' button is available.
- Ever Green1**: Located in Kathmandu, Kathmandu. It has a price of \$20,000.0, Sqft: 3, Accommodation Number: 100, and is listed by Dealer1. It was updated 1 month, 4 weeks ago. A 'More Info' button is available.

At the bottom of the page, a dark footer bar contains the text 'Copyright © 2020 Book Venue'.

Figure 88: Listed Venue located at entered City.

The screenshot shows a web application interface for 'BOOK VENUE'. At the top, there is a navigation bar with links for 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME MATINATULADHAR (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, there are two input fields: 'Bhaktapur' in the first field and 'State' in the second dropdown field. Underneath these are two more dropdown fields: 'Accomodation' and 'Max Price'. A large green button labeled 'Search' is positioned below the dropdowns. Below the search area, a breadcrumb navigation shows 'Home / Browse Listings / Search Results'. A message 'No Listings Available' is displayed. At the bottom of the page, a dark footer bar contains the text 'Copyright © 2020 Book Venue'.

Figure 89: "No listing available". No search for the venue located at specific City.

4.2.13. To check if Customer can search venue according to the entered accommodation number.

Objective	To check if Customer can search venue according to the entered accommodation number.
Action	The user enters the city name in the search bar.
Expected Result	<ol style="list-style-type: none"> 1. System should show the venues having accommodation number less than or equal to the accommodation number specified. 2. System should say "No listing available if no venue is registered for the accommodation number specified.
Actual Result	<ol style="list-style-type: none"> 1. System shows the venues having accommodation number less than or equal to the accommodation number specified. 2. System displays "No listing available if no venue is registered for the accommodation number specified.
Conclusion	Test Successful.

Table 37: Search for venue according to the accommodation number.

The screenshot shows the Book Venue application's search interface. At the top, there are navigation links: BOOK VENUE, HOME, INVITE, ABOUT, FEATURED LISTINGS, WELCOME MATINATULADHAR (DASHBOARD), and LOGOUT. Below the navigation is a search bar with fields for 'Kathmandu' (City), 'State' (dropdown), '200' (Accommodation Number), 'Max Price' (dropdown), and a 'Search' button. The main content area displays two venue listings: 'Shree Nath' and 'Ever Green1'. Each listing includes a thumbnail image of the venue, its name, location, key features, and a 'More Info' button.

Venue Name	Location	Key Features
Shree Nath	Kathmandu, Kathmandu	Sqft: 4 Accommodation Number: 150 Dealer3 1 month, 3 weeks
Ever Green1	Kathmandu, Kathmandu	Sqft: 3 Accommodation Number: 100 Dealer1 1 month, 4 weeks

Figure 90: List of Venue which displays venue with accommodation number lesser than or equal to specified accommodation number.

4.2.14. To check if Customer can search venue according to the entered price

Objective	To check if Customer can search venue according to the entered price.
Action	The user enters the city name in the search bar.
Expected Result	<ol style="list-style-type: none"> 1. System should show the venues having price less than or equal to the price specified. 2. System should say "No listing available if no venue is registered at the price less or equals to that specified.
Actual Result	<ol style="list-style-type: none"> 1. System shows the venues having price less than or equal to the price specified. 2. System displays, "No listing available if no venue is registered at the price less or equals to that specified.
Conclusion	Test Successful.

Table 38: Search Venue according to Price

The screenshot shows a search interface for venue bookings. At the top, there are dropdown menus for 'City' (Kathmandu), 'State' (Nepal), 'Accommodation' (150), and 'RS.20,000'. Below these is a 'Search' button. The results show two venue listings:

- Shree Nath** (Kathmandu, Kathmandu)
 - Sqft: 4
 - Accommodation Number: 150
 - Dealer3
 - 1 month, 3 weeks
- Ever Green1** (Kathmandu, Kathmandu)
 - Sqft: 3
 - Accommodation Number: 100
 - Dealer1
 - 1 month, 4 weeks

Each listing has a 'More Info' button at the bottom.

Figure 91: Display of Venue within price specified.

The screenshot shows a search interface for venue bookings. At the top, there are dropdown menus for 'City' (Kathmandu), 'State' (Nepal), 'Accommodation' (100), and 'RS.10,000'. Below these is a 'Search' button. The results section displays the message: "No Listings Available".

Figure 92: "No Listing Available", for price specified.

4.2.15. To check if logged in Customer can book a venue

Objective	To check if logged in Customer can book a venue.
Action	The customer selects a venue and clicks on Book Venue Button
Expected Result	The system will show the booking form. User fills in the form and selects the date to be booked. User will proceed to pay online. After payment, the venue will be successfully booked.
Actual Result	The system shows the booking form. User fills in the form and selects the date to be booked. User proceeds to pay online. After payment, the venue is successfully booked.
Conclusion	Test Successful.

Table 39: Test: Book Venue.

The screenshot displays a 'Make Booking' modal window overlaid on a website. The modal has a white background and a dark blue header bar with the title 'Make Booking'. It contains several input fields: 'Property' (Shree Nath), 'Name' (CustomerTest3 Testing), 'Email' (customerTest2@gmail.com), 'Phone' (9841567780), and 'Booking Date' (06/09/2020). At the bottom of the modal are two buttons: a dark blue 'Proceed to Payment' button and a green 'Book' button. The background of the website shows a blurred image of an event venue with tables and chairs. The top navigation bar includes links for 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME CUSTOMER TEST (DASHBOARD)', and 'LOGOUT'. On the right side of the page, there are sidebar elements for 'Property Dealer' (Dealer3), 'Send Feedbacks', and 'Make Booking'.

Figure 93: Booking Form.

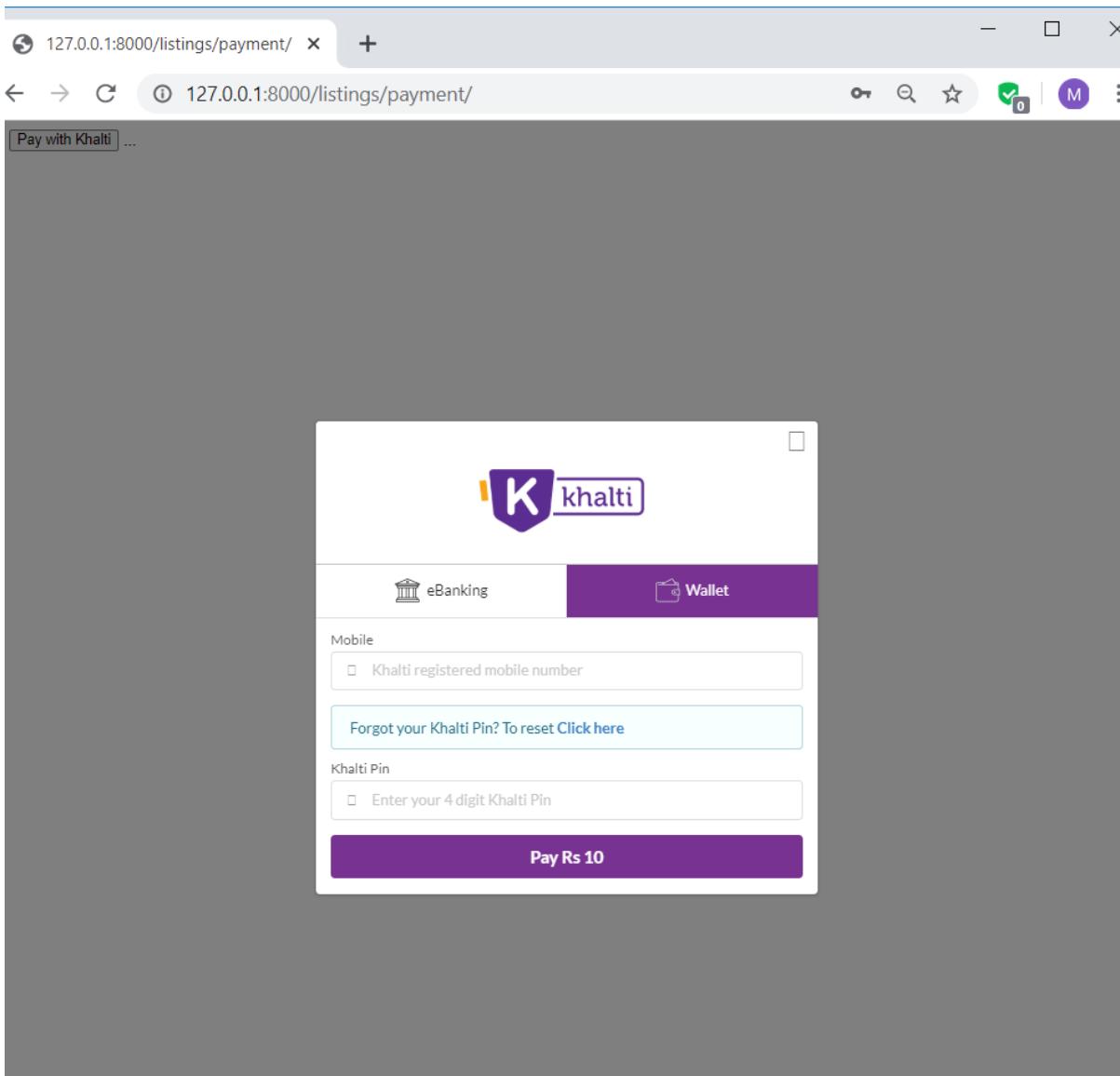


Figure 94: Payment using Khalti.

BOOK VENUE HOME INVITE ABOUT FEATURED LISTINGS WELCOME CUSTOMER TEST (DASHBOARD) LOGOUT

Shree Nath

Kathmandu, Kathmandu

Home / Listings / Shree Nath

Success You have booked your venue.

[Back To Listings](#)



Property Dealer
Dealer3

[Send Feedbacks](#)

[Make Booking](#)

Asking Price: RS.12,000.0 Square Feet: 4

Figure 95: Successful Booking of Venue.

4.2.16. To check if logged in Customer can check their booking details

Objective	To check if logged in Customer can check its booking list.
Action	The Customer clicks on View Booking Button.
Expected Result	<ol style="list-style-type: none"> 1. System will display list of Venues booked by the customer. 2. System will display “No Booking Yet” message if customer has not booked any venue yet.
Actual Result	<ol style="list-style-type: none"> 1. System displays list of Venues booked by the customer. 2. System displays “No Booking Yet” message if customer has not booked any venue yet.
Conclusion	Test Successful.

Table 40: Test: View Booking (Customer).



Figure 96: View Booking Details (Customer).



Figure 97: "No Booking Yet" Message.

4.2.17. To check if logged in Customer can post feedback to the venue

Objective	To check if logged in Customer can post feedback to the venue.
Action	The customer selects a venue and clicks on send Feedback Button.
Expected Result	System will display feedback form. After filling the form, customer submits the form and should display feedback sent message.
Actual Result	System displays feedback form. After filling the form, customer submits the form and feedback sent message is displayed.
Conclusion	Test Successful.

Table 41: Test: Send Feedback.

The screenshot shows a web application interface for booking a venue. At the top, there's a navigation bar with links for 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME CUSTOMER TEST (DASHBOARD)', and 'LOGOUT'. Below the navigation, a modal window titled 'Send Feedbacks' is open. The modal contains fields for 'Property' (Paradise), 'Name' (CustomerTest3 Testing), 'Email' (customerTest2@gmail.com), 'Phone' (9841567780), and a 'Message' field containing the text 'Hello! Amazing Venue. Thank you for great service!'. A green 'Send' button is at the bottom of the modal. In the background, there's a large image of a well-decorated event venue with tables set up under a starry ceiling. To the right of the modal, there's a sidebar with a 'Property Dealer' section showing 'DealerSingh' and buttons for 'Send Feedbacks' and 'Make Booking'.

Figure 98: Feedback Form.

BOOK VENUE HOME INVITE ABOUT FEATURED LISTINGS WELCOME CUSTOMER TEST (DASHBOARD) LOGOUT

Paradise

Kathmandu, Kathmandu

Home / Listings / Paradise

Success Your feedbacks have been recorded. Thank You. ×

Back To Listings



Property Dealer
DealerSingh

Send Feedbacks

Make Booking

Asking Price: RS.30,000.00 Square Feet: 4
 Final Price: RS.None Lot Size: Acres
 Accommodation Number: 400 Listing Date: June 3, 2020, 4:06 p.m.
 Dealer: DealerSingh

This is a venue. Located at the heart of the country, it is a very attractive location.

Copyright © 2020 Book Venue

Figure 99: Message displayed after successfully sending feedback,

4.2.18. To check if logged in Customer can send invitation to invitees

Objective	To check if logged in Customer can send invitation to invitees.
Action	User fills up the invitation form along with a single or lists of recipients.
Expected Result	The mail should be sent to the listed recipients.
Actual Result	The mail is sent to the recipients.
Conclusion	Test Successful.

Table 42: Search Venue according to Price.

The screenshot shows a user interface for sending an invitation. At the top, there is a dark header bar with navigation links: 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME MATINATULADHAR (DASHBOARD)', and 'LOGOUT'. Below the header is a dark blue section titled '+ Invite' with a user icon. The main form area has the following fields:

- Name:** Matina Tuladhar
- Email:** tuladhartulina12@gmail.com
- Invitees Email:** tuladhartulina98@gmail.com
- Message:** Hello! You are invited to my party.

At the bottom of the form is a green 'Send' button. The entire interface is set against a white background with a dark footer bar at the very bottom containing the copyright notice: 'Copyright © 2020 Book Venue'.

Figure 100: Invitation User Interface.

The screenshot shows the MatinaTuladhar Dashboard. At the top, there is a navigation bar with links for BOOK VENUE, HOME, INVITE, ABOUT, FEATURED LISTINGS, WELCOME MATINATULADHAR (DASHBOARD), and LOGOUT. The main title "MatinaTuladhar Dashboard" is displayed prominently. Below the title, there is a breadcrumb navigation showing "Home / Dashboard". A green success message box contains the text "Success You have send the invitation." with a close button "X". Below the message, a large black placeholder icon for a user profile picture is shown. Underneath the icon, two lines of text provide the recipient's details: "First Name: Matina" and "Second Name: Tuladhar".

Figure 101: Success Message on sending an invitation mail.

```
[02/Jun/2020 22:30:30] "GET /invitation/ HTTP/1.1" 200 5241
[02/Jun/2020 22:30:30] "GET /static/images/loading.gif HTTP/1.1" 404 1678
Content-Type: text/plain; charset="utf-8"
MIME-Version: 1.0
Content-Transfer-Encoding: 7bit
Subject: Invitation
From: tuladhamatina12@gmail.com
To: ['tuladhamatina98@gmail.com']
Date: Tue, 02 Jun 2020 16:46:18 -0000
Message-ID: <159111637858.3804.6710118319169462120@DESKTOP-IDCTMID>

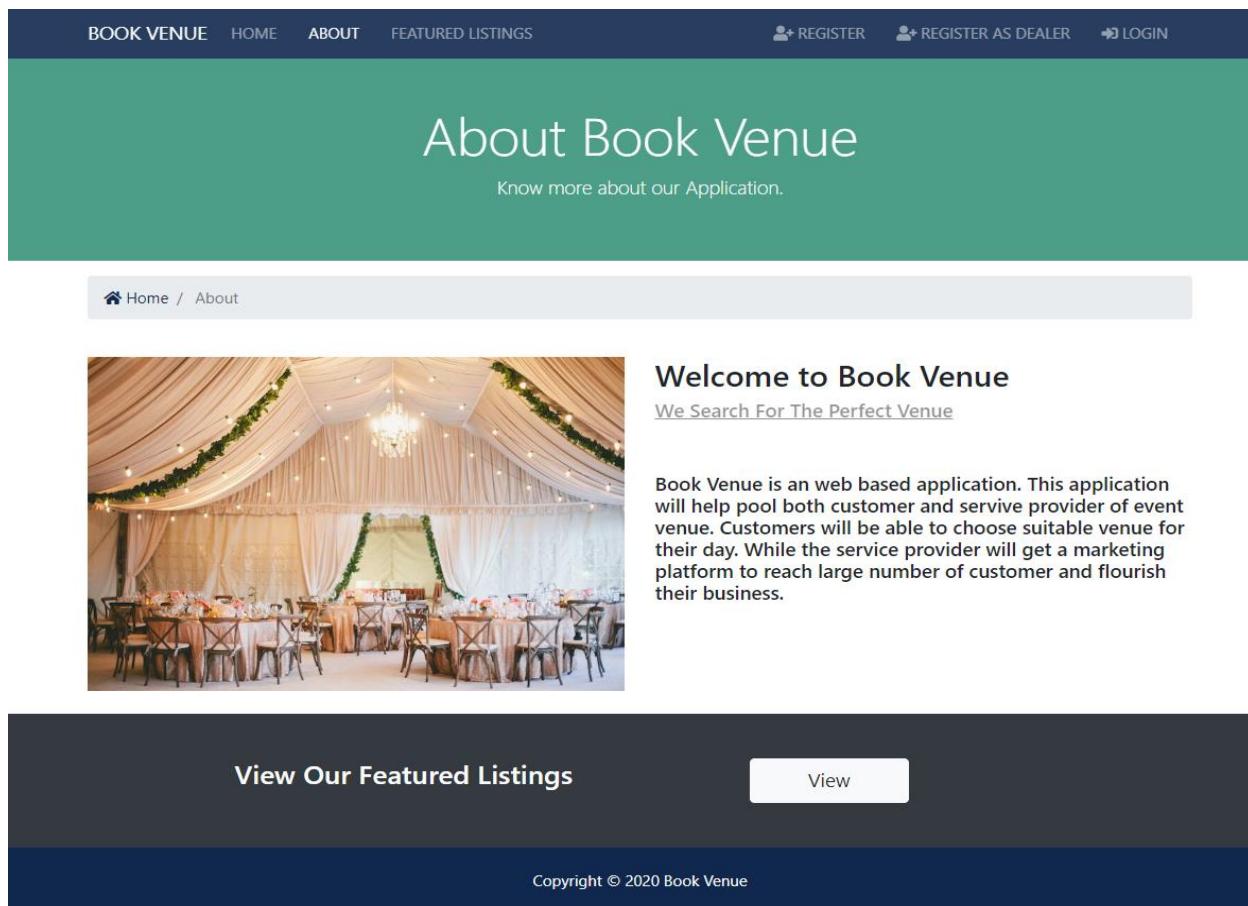
Hello! You are invited to my party.
-----
[02/Jun/2020 22:31:18] "POST /invitation/ HTTP/1.1" 302 0
[02/Jun/2020 22:31:18] "GET /accounts/dashboard HTTP/1.1" 200 7185
[02/Jun/2020 22:31:18] "GET /static/images/loading.gif HTTP/1.1" 404 1678
```

Figure 102: Successful deliver of invitation to recipient.

4.2.19. To check if About Us Page can be viewed

Objective	To check if About Us Page can be viewed
Action	User click on About Us.
Expected Result	About Us page should be displayed.
Actual Result	About Us page is displayed.
Conclusion	Test Successful.

Table 43: Test: About Us Page.



The screenshot shows the 'About Book Venue' page of the Book Venue website. At the top, there is a dark header bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', and user registration/login options ('REGISTER', 'REGISTER AS DEALER', 'LOGIN'). Below the header, the main content area has a teal background with the title 'About Book Venue' and a subtitle 'Know more about our Application.' On the left, there is a photograph of a large, elegantly decorated event venue with tables set up for a meal. On the right, there is a section titled 'Welcome to Book Venue' with a sub-section 'We Search For The Perfect Venue'. A detailed description follows, explaining the service's purpose: 'Book Venue is an web based application. This application will help pool both customer and servive provider of event venue. Customers will be able to choose suitable venue for their day. While the service provider will get a marketing platform to reach large number of customer and flourish their business.' At the bottom of the page, there is a dark footer bar with a button labeled 'View Our Featured Listings' and a 'View' button, along with copyright information: 'Copyright © 2020 Book Venue'.

Figure 103: About Us Page.

4.2.20. To check if Featured Listing Page can be viewed

Objective	To check if Featured Listing Page can be viewed
Action	User clicks on Featured Listing.
Expected Result	Featured Listings should be displayed.
Actual Result	Featured Listings is displayed.
Conclusion	Test Successful.

Table 44: Test: Featured Listing.

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER REGISTER AS DEALER LOGIN

Browse Our Properties

Home / Browse Listings

Rs.2,000.0

Tri Devi
Kathmandu, Kathmandu

Sqft: 2
Accommodation Number: 2

Dealer: DealerSingh
22 hours, 51 minutes

[More Info](#)

Rs.30,000.0

Paradise
Kathmandu, Kathmandu

Sqft: 4
Accommodation Number: 400

Dealer: DealerSingh
1 day, 3 hours

[More Info](#)

Rs.12,000.0

Shree Nath
Kathmandu, Kathmandu

Sqft: 4
Accommodation Number: 150

Dealer: Dealer3
1 month, 3 weeks

[More Info](#)

Rs.15,000.0

Ever Green1
Kathmandu, Kathmandu

Sqft: 3
Accommodation Number: 100

Dealer: Dealer1
2 months

[More Info](#)

Figure 104: Featured Listing.

4.3. Unit Test

4.3.1. To check if user can log into the system with invalid username and password.

Objective	To check if a user can log into the system with invalid username and password.
Action	The user enters invalid username and password to log into the system.
Expected Result	The user should not be logged into the system and display an error message
Actual Result	The user is not logged in and displays an error message.
Conclusion	Test Successful.

Table 45: Testing: Login authentication.

The screenshot shows a login interface. At the top, there is a dark header bar with the text "BOOK VENUE" and navigation links for "HOME", "ABOUT", and "FEATURED LISTINGS". On the right side of the header are three buttons: "REGISTER", "REGISTER AS DEALER", and "LOGIN". Below the header is a "Login" button on a dark blue background. The main area has a light gray background. It contains a red error message box with the text "Error: Invalid credentials" and a close button. Below the error box are two input fields: "Username" with the value "userError" and "Password" with several dots. At the bottom is a green "Login" button. At the very bottom of the page, there is a dark footer bar with the copyright text "Copyright © 2020 Book Venue".

Figure 105: Login Error.

```

System check identified no issues (0 silenced).
June 03, 2020 - 22:32:36
Django version 2.0.8, using settings 'venue.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[03/Jun/2020 22:32:40] "GET /accounts/login HTTP/1.1" 200 4155
[03/Jun/2020 22:32:41] "GET /static/images/loading.gif HTTP/1.1" 404 1678
Invalid credentials
[03/Jun/2020 22:32:45] "POST /accounts/login HTTP/1.1" 302 0
[03/Jun/2020 22:32:45] "GET /accounts/login HTTP/1.1" 200 4528

```

Figure 106: Output in console showing invalid credentials.

4.3.2. To check if new dealer is created after Dealer registration

Objective	To check if new dealer is created after Dealer registration
Action	User clicks on Register as Dealer button the user then fills and submits the form.
Expected Result	New object for the model User should be created. The is_dealer column in the database should be assigned value 1.
Actual Result	New object for the model User is created. The is_dealer column in the database is assigned value 1.
Conclusion	Test Successful.

Figure 107: Test to check if user can register as Dealer.

The image shows a mobile application's registration screen. At the top, there is a dark blue header with a white icon of a person and the word "Register". Below the header is a light gray form area with the following fields:

- First Name: Dealer
- Last Name: Singh
- Username: DealerSingh
- Email: singhDealer@gmail.com
- Password: (represented by five dots)
- Confirm Password: (represented by five dots)
- Phone Number: 9845788166

A large green button at the bottom of the form area contains the word "Register" in white text.

Figure 108: User fills up the registration form.

```
System check identified no issues (0 silenced).
June 02, 2020 - 20:18:10
Django version 2.0.8, using settings 'venue.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
New Dealer Created
[02/Jun/2020 20:19:28] "POST /accounts/dealer_register HTTP/1.1" 302 0
[02/Jun/2020 20:19:28] "GET /accounts/login HTTP/1.1" 200 4557
```

Figure 109: Message showing new dealer created.

```
(base) E:\venue\venue>python manage.py shell
Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.4.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: from accounts.models import User

In [2]: user_dealer = User.objects.filter(first_name = 'Dealer', last_name ='Singh', is_dealer= True)

In [3]: user_dealer
Out[3]: <QuerySet []>
```

Figure 110: Object created for model User.

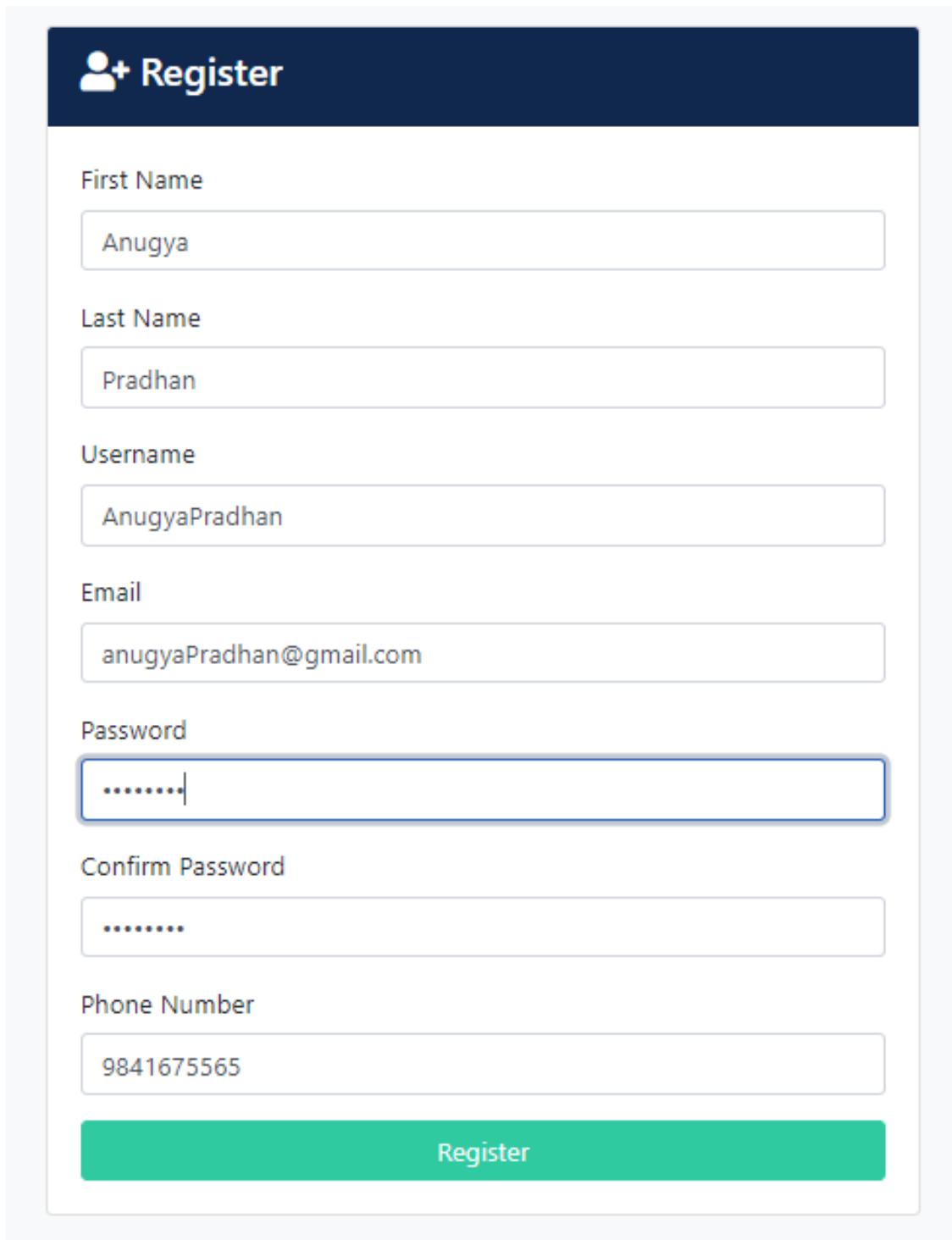
+ Options																				
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	pbkdf2_sha256\$100000\$6eBWMsYYaoSi\$OvcVZFD6oQc8h...	2020-06-02 10:08:48.603782	0	Dealer1	Test	dealer1@gmail.com	0	1	2020-04-04 16:23:17.454089	0	1	9876543212				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	pbkdf2_sha256\$100000\$51zp7hfazG3ZDZ5Security1zCEHfg...	2020-04-04 17:18:11.016851	0	Dealer2	Dealer2	dealer2@gmail.com	0	1	2020-04-04 17:18:20.897579	0	1	9876575645				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	3	pbkdf2_sha256\$100000\$wOexxx56Y0SK7K7qge75OUlperwx...	2020-05-20 02:33:03.076228	1	admin			1	1	2020-04-04 17:31:10.278535	0	0	NULL				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	5	pbkdf2_sha256\$100000\$07tHCsaGSDwQS7g7keex04kGhzASYB...	2020-04-18 08:07:04.158782	0	Dealer3	Dealer3	dealer3@gmail.com	0	1	2020-04-05 05:18:11.638485	0	1	9876543219				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	6	pbkdf2_sha256\$100000\$4d881VbbXEw\$5cuwB3jQsUhlspPZ...	2020-04-23 18:31:55.356411	0	customer2	Customer2	customer2@gmail.com	0	1	2020-04-05 05:42:54.566071	1	0	9841567789				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	7	pbkdf2_sha256\$100000\$9fJYj5tgG6NSmOnNqzjLcETMcg6U...	2020-04-05 07:44:51.433003	0	dealer4	Dealer4	dealer4@gmail.com	0	1	2020-04-05 07:44:38.203673	0	1	9876566853				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	8	pbkdf2_sha256\$100000\$Pv35nYYzb0zG3TLRUHPRV1yTq7...	2020-06-01 19:54:14.229907	0	Customer1	Customer1	customer1@gmail.com	0	1	2020-04-04 08:13:33.908321	1	0	98099989				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	9	pbkdf2_sha256\$100000\$RzcvYz1Kmp7SguH0ov43uTyQyv...	2020-06-02 17:53:50.398404	0	MatinaTuladhar	Matina Tuladhar	luldharmatina12@gmail.com	0	1	2020-05-01 05:07:37.616747	1	0	9841570061				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	10	pbkdf2_sha256\$100000\$Vh9bCnPzawlsd+MjSHjXACLMVH...	NULL	0	rachanaThapa	Rachana Thapa	rachanathapa@gmail.com	0	1	2020-06-02 19:10:17.435353	1	0	9851877899				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	13	pbkdf2_sha256\$100000\$Mm45CKSEYRb5jECojOvg7RgPJh...	NULL	0	AnuyaPradha	Anuya Pradha	anuyaPradha@gmail.com	0	1	2020-06-02 19:38:20.954659	1	0	9841567790				
<input type="checkbox"/>	<input checked="" type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	14	pbkdf2_sha256\$100000\$Ka6fjYmUj95tSUjYXRgDvNy3...	NULL	0	DealerSingh	Dealer Singh	singhDealer@gmail.com	0	1	2020-06-02 20:19:27.948592	0	1	9845700166				

Figure 111: New Dealer User added to database.

4.3.3. To check if new customer is created after customer registration

Objective	To check if new customer user is created after user registration
Action	User clicks on Register button. User then fills and submits the form.
Expected Result	New object for the model User should be created.
Actual Result	New object for the model User is created.
Conclusion	Test Successful.

Figure 112: Test to check if new user is created after registration.



The image shows a user registration form titled "Register". The form fields include: First Name (Anugya), Last Name (Pradhan), Username (AnugyaPradhan), Email (anugyaPradhan@gmail.com), Password (represented by a series of dots), Confirm Password (also represented by a series of dots), and Phone Number (9841675565). A large green "Register" button is at the bottom.

First Name
Anugya

Last Name
Pradhan

Username
AnugyaPradhan

Email
anugyaPradhan@gmail.com

Password
.....|

Confirm Password
.....

Phone Number
9841675565

Register

Figure 113: User registering to the system (Customer).

```
[02/Jun/2020 19:38:02] "POST /accounts/register HTTP/1.1" 500 217319
[02/Jun/2020 19:38:07] "GET /static/images/loading.gif HTTP/1.1" 404 1678
User Created
[02/Jun/2020 19:38:21] "POST /accounts/register HTTP/1.1" 302 0
[02/Jun/2020 19:38:21] "GET /accounts/login HTTP/1.1" 200 4547
[02/Jun/2020 19:38:21] "GET /static/images/loading.gif HTTP/1.1" 404 1678

(base) E:\venue\venue>python manage.py shell
Python 3.7.3 (default, Mar 27 2019, 17:13:21) [MSC v.1915 64 bit (AMD64)]
Type 'copyright', 'credits' or 'license' for more information
IPython 7.4.0 -- An enhanced Interactive Python. Type '?' for help.

In [1]: from accounts.models import User

In [2]: user_customer = User.objects.filter(first_name = 'Anugya', last_name = 'Pradhan')

In [3]: user_customer
Out[3]: <QuerySet []>

In [4]:
```

Figure 114: User created, and object formed (Customer).

User Table														
	ID	password	last_login	is_superuser	username	first_name	last_name	email	is_staff	is_active	date_joined	is_customer	is_dealer	phone_number
<input type="checkbox"/>	1	pbkdf2_sha256\$100000\$6vBWMSyYaaSISn\$QvcV2FD6oD6C6h...	2020-06-02 10:06:48.603782	0	Dealer1	Dealer1	Test	dealer1@gmail.com	0	1	2020-04-04 16:23:17.454069	0	1	9876543212
<input type="checkbox"/>	2	pbkdf2_sha256\$100000\$1zq7HfzZg5SzZ05eany1zcZEIfg...	2020-04-04 17:18:11.016851	0	Dealer2	Dealer2	Test	dealer2@gmail.com	0	1	2020-04-04 17:18:02.289759	0	1	9878675645
<input type="checkbox"/>	3	pbkdf2_sha256\$100000\$cW0exXk56Y0SK7Kbgv750Uepix...	2020-05-20 02:33.0378228	1	admin				1	1	2020-04-04 17:31:10.278535	0	0	NULL
<input type="checkbox"/>	5	pbkdf2_sha256\$100000\$07mIChAGDw57gkx04KH245YB...	2020-04-16 06:07:01.158762	0	Dealer3	Dealer3	Test	dealer3@gmail.com	0	1	2020-04-05 05:18:11.638465	0	1	9876543219
<input type="checkbox"/>	6	pbkdf2_sha256\$100000\$4d681VBdXEmw5CuwB3Q0JuhnPZ...	2020-04-23 18:31:55.3586411	0	customer2	Customer2	Test	customer2@gmail.com	0	1	2020-04-05 05:42:54.568071	1	0	9841567789
<input type="checkbox"/>	7	pbkdf2_sha256\$100000\$0RJYp5Tg6N6KgNNejgLEFmcgUV...	2020-04-05 07:44.11.433003	0	dealer4	Dealer4	Test	dealer4@gmail.com	0	1	2020-04-05 07:44:38.203673	0	1	9876560853
<input type="checkbox"/>	8	pbkdf2_sha256\$100000\$Pv35nRYzb20STLRLHPRV1yTg7...	2020-06-01 19:58:14.226907	0	Customer1	Customer1	Test	customer1@gmail.com	0	1	2020-04-08 08:13:33.908321	1	0	980969689
<input type="checkbox"/>	9	pbkdf2_sha256\$100000\$RrcvLy1KmpgSpqOow4u3TyQysW...	2020-06-02 17:53:50.398404	0	MatinaTuladhar	Matina	Tuladhar	MatinaTuladhar12@gmail.com	0	1	2020-05-01 05:07:37.616477	1	0	9841570061
<input type="checkbox"/>	10	pbkdf2_sha256\$100000\$V9BCnyPzwJsdMjSHIX4ACLMVh...	NULL	0	rachanaThapa	Rachana	Thapa	rachanathapa@gmail.com	0	1	2020-06-02 19:10:17.435353	1	0	9851877899
<input type="checkbox"/>	13	pbkdf2_sha256\$100000\$Mo5KCkSE1Ro\$6EIOsOvg7RgPJh...	NULL	0	AnugyaPradha	Anugya	Pradhan	anugyaPradha@gmail.com	0	1	2020-06-02 19:38:20.954859	1	0	9841567790

Figure 115: New User is created in database.

4.3.4. To check for empty field validation in Login Form

Objective	To check for empty field validation in Login Form
Action	User clicks on Login Button without filling the fields.
Expected Result	Validation message, “Please fill out the field” should be shown and login should be denied.
Actual Result	Validation Message, “Please fill out the field” is shown and login is denied.
Conclusion	Test Successful.

Table 46: Test: Check for empty field validation in Login Form.

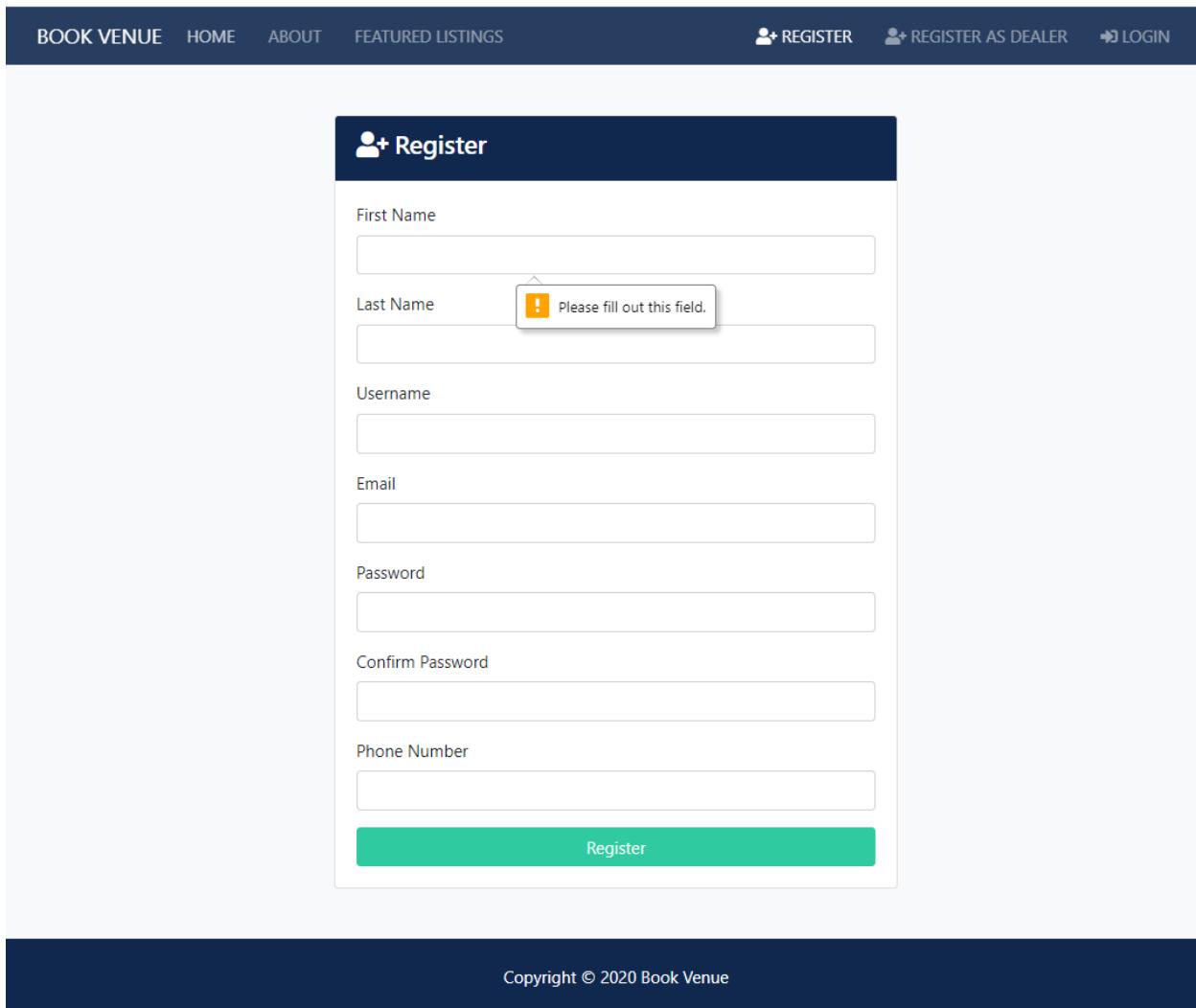
The screenshot shows a login interface. At the top, there is a dark blue header bar with navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', and 'FEATURED LISTINGS'. On the right side of the header are three buttons: 'REGISTER', 'REGISTER AS DEALER', and 'LOGIN'. Below the header is a light gray content area containing a login form. The form has a dark blue header with the text 'Login' and a right-pointing arrow icon. It contains two input fields: 'Username' and 'Password'. The 'Username' field is empty. A validation message 'Please fill out this field.' is displayed in a yellow box with an exclamation mark icon, pointing to the 'Username' field. Below the fields is a green 'Login' button. At the bottom of the page, there is a dark blue footer bar with the copyright notice 'Copyright © 2020 Book Venue'.

Figure 116: Login Form Validation.

4.3.5. To check if registration form is validated or not

Objective	To check if registration form is validated or not.
Action	User clicks on Register Button without filling the fields.
Expected Result	Validation message, “Please fill out the field” should be shown and registration should be denied.
Actual Result	Validation Message, “Please fill out the field” is shown and registration is denied.
Conclusion	Test Successful.

Table 47: Test: Check if registration form is validated or not.



The screenshot shows a registration form titled "Register" on a website. The form fields are as follows:

- First Name: An empty input field.
- Last Name: An empty input field with a validation message: "Please fill out this field." displayed above it.
- Username: An empty input field.
- Email: An empty input field.
- Password: An empty input field.
- Confirm Password: An empty input field.
- Phone Number: An empty input field.

A large green "Register" button is located at the bottom of the form. The page footer contains the copyright notice "Copyright © 2020 Book Venue".

Figure 117: Registration Form Validation.

4.3.6. To check if user can register with username that already exists.

Objective	To check if user can register with username that already exists.
Action	User fills up the form and inserts username that is already taken.
Expected Result	Validation message, “Please fill out the field” should be shown and registration should be denied.
Actual Result	Validation Message, “Please fill out the field” is shown and registration is denied.
Conclusion	Test Successful.

Table 48: Test: Register with username that already exists.

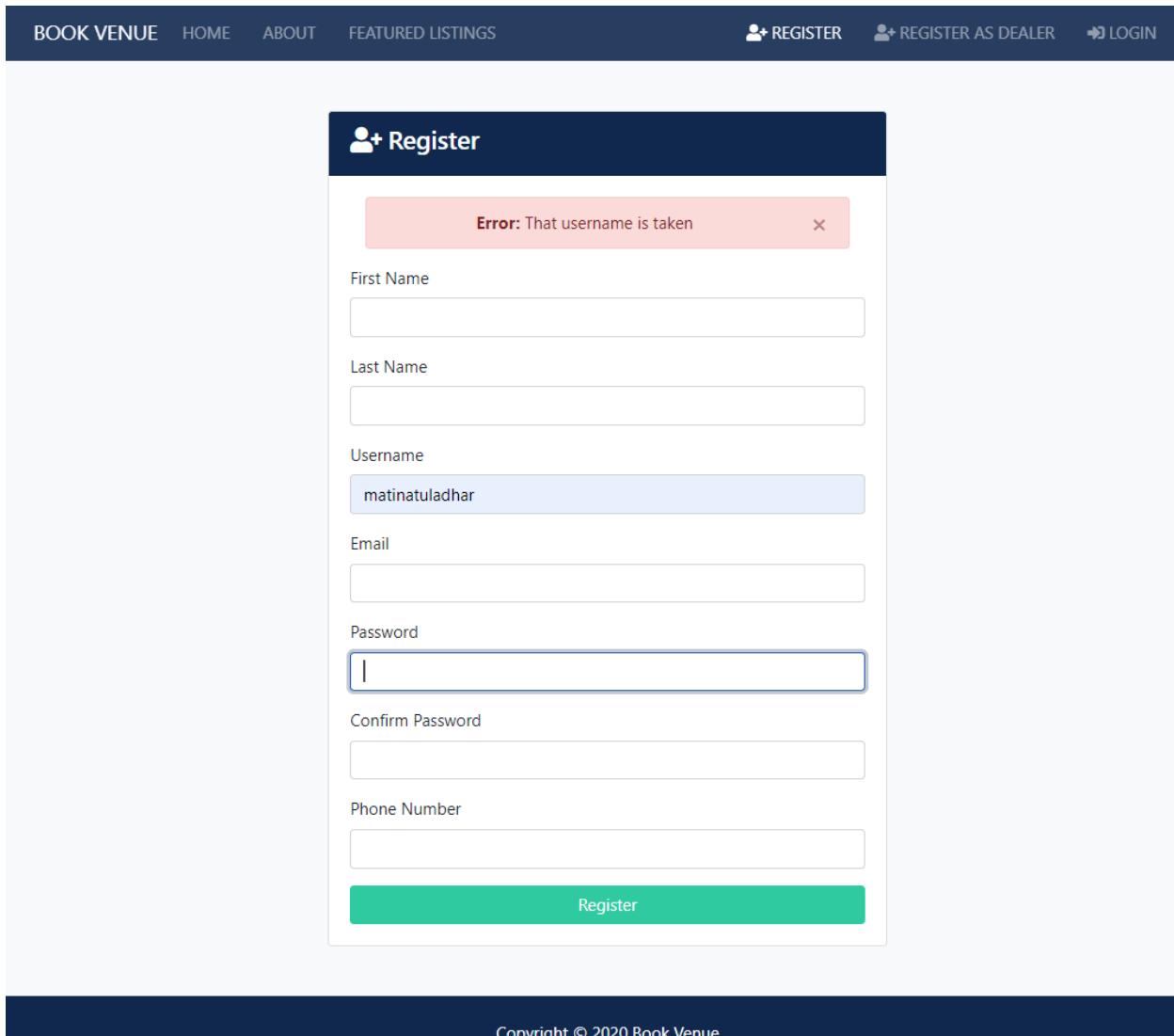
The screenshot shows a registration form titled "Register". The form fields are as follows:

- First Name: Matina
- Last Name: Tuladhar
- Username: matinatuladhar
- Email: tuladhar_matina@yahoo.com
- Password: (redacted)
- Confirm Password: (redacted)
- Phone Number: 9876334455

A red error message "This Username is already taken." is displayed above the "Register" button.

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Figure 118: Registration form filled with username already taken.



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Figure 119: Error message: "Username is taken."

```
System check identified no issues (0 silenced).
June 03, 2020 - 22:36:45
Django version 2.0.8, using settings 'venue.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[03/Jun/2020 22:58:12] "GET /accounts/register HTTP/1.1" 200 5245
[03/Jun/2020 22:58:12] "GET /static/images/loading.gif HTTP/1.1" 404 1678
User Name Already Taken
[03/Jun/2020 23:05:37] "POST /accounts/register HTTP/1.1" 302 0
[03/Jun/2020 23:05:37] "GET /accounts/register HTTP/1.1" 200 5621
[03/Jun/2020 23:05:37] "GET /static/images/loading.gif HTTP/1.1" 404 1678
```

Figure 120: Output in console showing "Username already taken."

4.3.7. To check if register venue form is validated or not.

Objective	To check if register venue form is validated or not.
Action	User leaves a field in the form empty.
Expected Result	Validation message, “Please fill out the field” should be shown and registration should be denied.
Actual Result	Validation Message, “Please fill out the field” is shown and registration is denied.
Conclusion	Test Successful.

Table 49: Test: To check if register venue form is validated or not.

The screenshot shows a registration form for a venue. The form fields include:

- Venue Name: Himalayan
- Address: (empty field)
- City: (empty field) - A validation error message "Please fill out this field." is displayed next to the input field.
- State: (empty field)
- Description: (empty field)
- Price: (empty field)
- Discounted Price: (empty field)
- Accommodation Number: (empty field)
- Sqft: (empty field)
- Photo Main:
 - Choose File: No file chosen
- Is Published:
 -

A large green "Register" button is at the bottom of the form.

At the bottom of the page, there is a dark blue footer bar with the text "Copyright © 2020 Book Venue".

Figure 121: Form Validation in register Venue form.

4.3.8. To check if form is validated when editing the venue details

Objective	To check if form is validated when editing the venue details
Action	User leaves a required field in the edit venue form empty.
Expected Result	Validation message, “Please fill out the field” should be shown
Actual Result	Validation Message, “Please fill out the field” is shown.
Conclusion	Test Successful.

Table 50: To if form is validated when editing the venue details.

The screenshot shows an 'Edit' form for a venue. The form fields include:

- Title: Shree Nath
- Address: Newroad
- City: Kathmandu
- State: Kathmandu
- Description: Hello this is a venue
- Price: (empty field)
- Discount: (empty field) - A validation error message 'Please fill out this field.' is displayed.
- Accommodation: 2
- Sqft: 2
- Photo main: Currently: photos/2020/04/02/venue.jpg
- Change: Choose File - No file chosen
- Is published:
- List date: 2020-06-03 20:35:21

A green 'Update' button is at the bottom of the form.

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Figure 122: Form Validation in Edit Venue Form.

4.3.9. To check if Dealer can cancel deletion of the venue

Objective	To check if Dealer can cancel deletion of the venue
Action	Dealer cancels the deletion of venue.
Expected Result	The venue should not be removed from the listing.
Actual Result	The venue is not removed from the listing.
Conclusion	Test Successful.

Table 51: Test: Check if Dealer can cancel deletion of the venue

The screenshot shows the DealerSingh Dashboard. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, the main title 'DealerSingh Dashboard' is displayed. Underneath the title, there is a breadcrumb navigation showing 'Home / Dashboard'. The main content area features a listing for a venue named 'Paradise'. The listing includes a thumbnail image of a well-lit event space, the price '\$30000.0', the name 'Paradise', the location 'Kathmandu, Kathmandu', and details about its size ('Sqft: 4') and accommodation ('Accommodation Number: 400'). It also shows the dealer information ('Dealer: DealerSingh', '1 day, 5 hours') and a 'More Info' button.

Figure 123: Page before trying to delete the venue.

The screenshot shows a modal dialog box titled 'Delete Venue' with a person icon. The message inside the box asks, 'Are you sure you want to delete "Paradise"?'. There are two buttons at the bottom: 'Cancel' and 'Confirm'. The 'Cancel' button is highlighted with a red box. The background of the page shows the same navigation bar and venue listing as Figure 123.

Figure 124: Cancel deletion of venue.

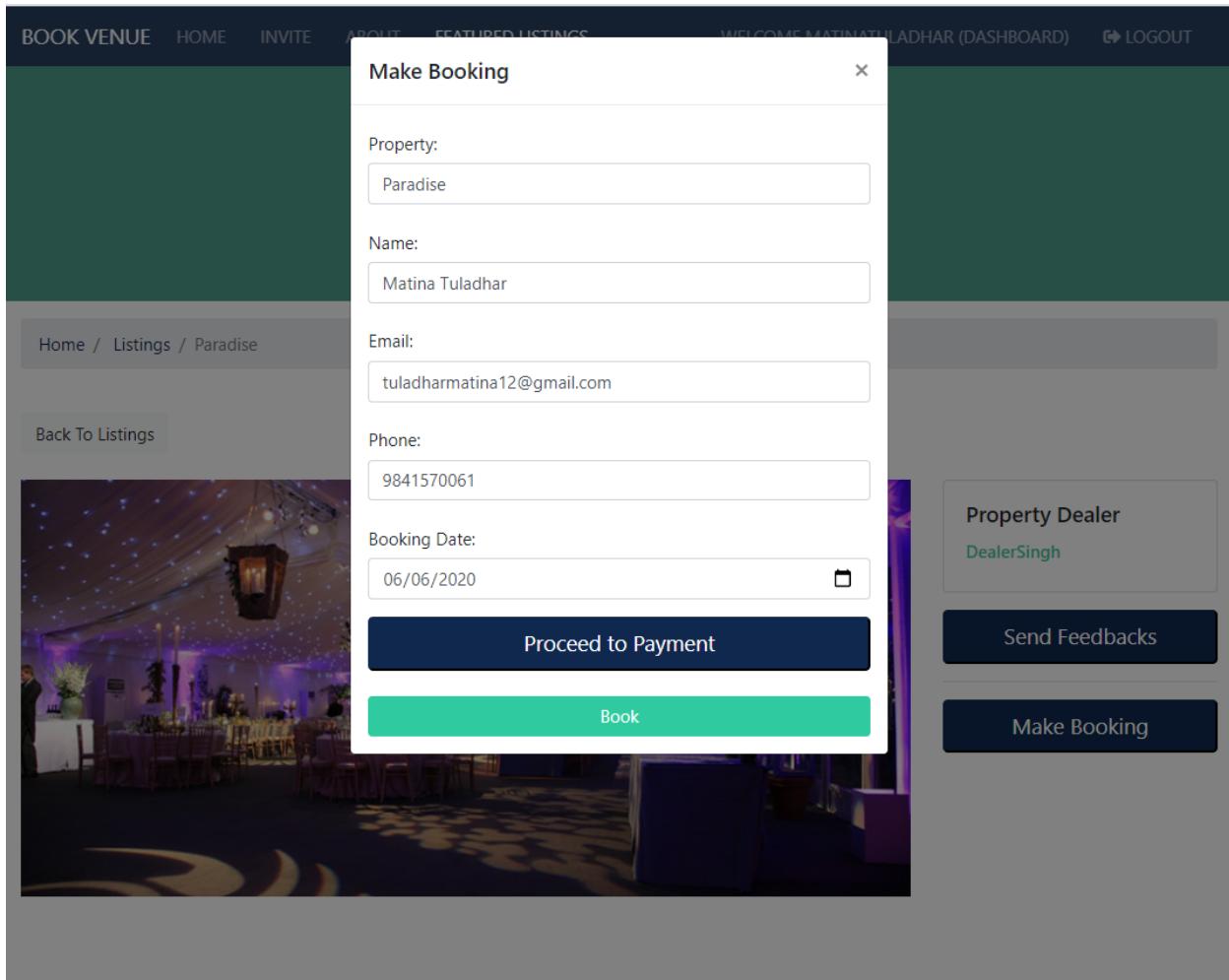
The screenshot shows the DealerSingh Dashboard. At the top, there is a navigation bar with links for 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALERSINGH (DASHBOARD)', and 'LOGOUT'. Below the navigation bar, the title 'DealerSingh Dashboard' is displayed. A breadcrumb navigation 'Home / Dashboard' is shown. The main content area features a heading 'Welcome Dealer' and a sub-heading 'Here are your properties.' Below this, a venue listing for 'Paradise' is shown. The listing includes a thumbnail image of a well-lit event space, a price of '\$30000.0', the name 'Paradise', the location 'Kathmandu, Kathmandu', and details about its size ('Sqft: 4') and accommodation capacity ('Accomodation Number: 400'). It also shows the dealer information ('Dealer: DealerSingh') and the booking duration ('1 day, 5 hours'). A 'More Info' button is at the bottom of the listing. The footer of the page contains the copyright notice 'Copyright © 2020 Book Venue'.

Figure 125: Page after cancelation of venue.

4.3.10. To check if customer can book venue with the date that the venue is already booked for.

Objective	To check if customer can book venue with the date that the venue is already booked for.
Action	User fills up the form and inserts booking date that is already taken.
Expected Result	System should not allow to book the venue for that date.
Actual Result	System does not allow to book the venue for the date.
Conclusion	Test Successful.

Table 52: Test: Book Venue with date that the venue is already booked for.



A screenshot of a web-based booking form titled "Make Booking". The form is displayed over a background image of a well-decorated event venue. The form fields include:

- Property: Paradise
- Name: Matina Tuladhar
- Email: tuladhartulmatina12@gmail.com
- Phone: 9841570061
- Booking Date: 06/06/2020

Below the form are two prominent buttons: "Proceed to Payment" (dark blue) and "Book" (green). To the right of the form, there is a sidebar with the following sections:

- Property Dealer: DealerSingh
- Send Feedbacks
- Make Booking

Figure 126: Booking Form.

BOOK VENUE HOME INVITE ABOUT FEATURED LISTINGS WELCOME MATINATULADHAR (DASHBOARD) LOGOUT

Paradise

Kathmandu, Kathmandu

Home / Listings / Paradise

Error: Sorry the venue is booked for the day.

[Back To Listings](#)

Property Dealer
DealerSingh

[Send Feedbacks](#)

[Make Booking](#)

₹ Asking Price: RS.30,000.0 Square Feet: 4

Figure 127: Booking Date already taken.

```
System check identified no issues (0 silenced).
June 03, 2020 - 23:22:21
Django version 2.0.8, using settings 'venue.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
Booking Date Not Available
[03/Jun/2020 23:22:24] "POST /book/books HTTP/1.1" 302 0
[03/Jun/2020 23:22:24] "GET /listings/14 HTTP/1.1" 200 13027
```

Figure 128: Output in console showing, "Booking Date not available."

4.3.11. To check if customer can book without logging in.

Objective	To check if customer can book without logging in.
Action	User tries to book the venue without logging in.
Expected Result	System should show Login to book button for logged out users.
Actual Result	System shows Login to book button for logged out users.
Conclusion	Test Successful.

Table 53: To check if customer can book without logging in

BOOK VENUE HOME ABOUT FEATURED LISTINGS REGISTER REGISTER AS DEALER LOGIN

Shree Nath

Kathmandu, Kathmandu

Home / Listings / Shree Nath

Back To Listings



Property Dealer
Dealer3

Login to book

Asking Price:	RS.12,000.0	Square Feet:	4
Final Price:	RS.None	Lot Size:	Acres
Accommodation Number:	150	Listing Date:	April 12, 2020, 9:06 p.m.
Dealer:	Dealer3		

abcdefghijklm

Copyright © 2020 Book Venue

Figure 129: Login to Book Button.

4.4. Critical Analysis

The system has been tested using two methods, the Unit Testing and Unit Testing. The testing was done on the basis of requirement of the system.

4.4.1. Unit Testing:

Unit testing is performed on individual units/components of a software. The testing mainly focuses on a single functionality which helped us ensure the validation and verification of every components.

There are total of 11 Unit test performed in this system. The test was performed to ensure proper utilization of code and to find any error and bugs present in program. No errors or bugs were found; hence the unit testing was done successfully.

4.4.2. System Testing:

System testing is performed to validate the complete and fully integrated software product. The testing was performed according to the need of system requirement. Total of 20 System Testing plans were listed before actual testing. This test helped us ensure the smooth running and error free system.

Every test result gave expected outcomes; hence, System Testing was done successfully.

5. Chapter 5: Conclusion

5.1. Legal, Social and Ethical Issues

An online booking application as such is a good place for businesses to pool together and allows users to communicate with the organisation at their own time. In the 21st century online business been the biggest hit and being part of the network. It has become a business key for potential internet users to be able to locate the business.

"Developing a website is not as tangible, as say building a fence." Creating any kind of website may seem like a simple process, but when done properly, creating and operating a website is not as straightforward as some might say. There are many issues that need to be addressed before and after they are deployed to the general audience. If these issues are not addressed properly, the organization may suffer hefty damages, loosing marketing investment made on the site of the organization.

This chapter explores the various issues that may arise with the application after it has been deployed to the general audience. Below we discuss about some of the legal, social and ethical issues that may arise and their possible solution to avoid them.

5.1.1. Legal Issues

Some of the legal issues the website may face are as follows:

- Website Design:

A legal issue may arise if the design for the website is too similar with other sites that have already been deployed and are working. Such designs may include organization's logo, banner, menus used by user to access different sections of websites, colour schemes etc.

Before product name, service name, logo or slogan is adopted, it is very important for us to conduct a trademark search to ensure that it does not infringe the rights of others.

- Website Software Development

Another legal issue concerns the exclusivity in the use of CMS (Content Management System). Creating a website whether a static or dynamic requires knowledge of HTML to make any modifications to the content of a website. Dynamic website is using published CMS (Content Management System) which enables website owners to manage content that is made available to the website's visitors. It allows non-technical users, that have no idea about HTML to manipulate the content from website.

While developing a CMS, a programmer or developer that built the site initially will be under no obligation to provide the customer with the source code or make modifications to it, which might lead to a legal issue of Intellectual Property (IP) theft. Thus, if a person has made significant investment in developing the CMS, it is important for him to obtain exclusive license to avoid reselling of the product, or right to modify the product.

- Domain Name:

Before deploying the website, it is important to select and register domain name for user to access the website using the web browser. When selecting the name, we must be careful not to engage in cybersquatting. It is a practice of registering domain name that is confusingly similar to other trademarks. This may lead to Trademark issues and Copyright Issues. Cybersquatting may lead to risk of losing domain name.

- Government Policies and Regulation

As with most e-commerce platforms there are no definite Government policies and regulatory mandates governing the business and its procedures. The Nepalese government have adopted a reactive policy design system, which creates an unclear and risky business environment for all online business include event booking. Therefore, this business is subjected to the potentially damaging government policies in the future. As such, as owners and developers of the event booking system we must take caution in running the business as well as be vigilant with updates on government rules and regulations.

- Lack of Online Payment System

Absence of online payment systems and portals creates a challenge for all e-commerce business, including our business. As such, this hinders our aim to provide services that are void of all and any physical interaction. Our business still must face and overcome the challenges of incorporating online payment.

5.1.2. Social Issues

Social issues associated with the program and the subsequent business ideas are as follows:

- Security and Privacy

Ensuring security and privacy of customer data is as vital as it is challenging for all business, especially for e-commerce. Challenges concerning data security include, fraudster post spam and attack on the web host server that infect the website with viruses, that can potentially gain access to confidential data about customers.

Cybercrimes are increasingly becoming more innovative and advanced as the cyber world has grown and developed, as such our business must take necessary precautions to ensure security and privacy of client data.

- Customer Experience and Loyalty

Even with the best designed website, customer loyalty is of utmost important for achieving sustained business growth. Gaining new customers and maintaining their loyalty will be a challenge given the increasing competition in the market. Further, as an online business, it will require further effort to turn visitors to customers as it is difficult to build customer trust and loyalty as the clients and the business not only don't know each other, they are unable to use their senses to gauge authenticity as they would in face to face transactions.

Therefore, it will be vital for our business to enhance customer experience at every customer touch point and with the while process from seeking service information to payment to build customer trust in the business.

5.1.3. Ethical Issues

Ethical conduct and success of business is as important as its financial success. Each component of our business must be ethically driven, in that we take Responsibility for our actions, Accountability for our deliveries and promises and Liability for the consequences that occur as a reason for our conduct. However, some ethical dilemmas are inevitable and few of such, that our business may potentially face are as follows:

- Property Right infringement

It is very easy to imitate content and be inspired by ideas on the internet. However, we must be sure to ensure that inspiration does not border on copying and stealing. While developing our website and providing services, we must ensure that only authentic ideas are used, or that we provide credit where it is due following legal protocols.

- Governance

As a business, we must ensure good governance in our business, as means of instilling and sharing values and principles in everyone we work with. Further we must ensure that, all parties to our business, including vendors and restaurant owners are not working against the best interest of the business and the customers, through legal and governance measures.

- Public Safety and Welfare

Another ethical challenge we may face is ensuring public safety and welfare by ensuring we communicate and showcase facts and true nature of our services, and not market fallacious products and services. For this, we must ensure that only authentic information

is collected from our vendors and partners, as well and exercising diligence in our process of deriving information from the same. Further we must also ensure that genuine information is posted and transferred to our clients.

In addition to implementing diligence in authenticating information, we must also ensure that we apply adequate security to our system to ensure sensitive information are not leaked as well as take adequate measures to mitigate consequences of any hacks on our system.

5.2. Advantages

The major advantages of Online Venue Booking System are as follows:

- Online booking system works for 24/7, this gives an opportunity for clients to book venue anytime they want. It also helps in maximizing the sales as the organization is not limited to working hours.
- Venue Owner will have less hassle with managing the venue. They can easily add, edit, delete their venue details with a simple touch of buttons.
- Avoid chaos in registering new customers. Customers can directly register and login to the system.
- Easy opportunity to book venue within the comfort of our own home.
- Clients can get an opportunity to choose the venue from listing. Client can easily search the venues with their preferable location, price range and capacity of the venue area.
- Easy facility of online payment helps to collect payment easily and efficiently.
- Low wastage of funds and money on papers and manpower.

5.3. Limitation

Some of the limitations of the application are as follows:

- Reliable internet access will be required to book venue.
- The system does not provide a manual. Therefore, it may be difficult to understand the working of the application.
- The system lacks a notification system; hence the dealer might have to check the booking of venue from frequent times to efficiently manage the venue.
- There is no other facility of payment other than Khalti payment.
- Client may be unsure about their choices made.
- Not every venue added to the online booking have equal services.

There may be more limitation than those set out above. However, in the future, these can be overcome by constant improvisation of the application,

5.4. Future Work

The development of the system done in this project is still in its initial stage. There are plenty of potential features that could be improved and added to the system. Below are some of the future upgrades that can be done to make the system more reliable, efficient and competitive in the market.

- **Adding Notification feature:**

This application lacks a notification feature for the venue owner. It would be suitable to add this feature to alert the owner wherever customer books the venue. It would help them to easily and efficiently manage their venues.

- **Integration of other payment gateway other than Khalti:**

Online payment is gaining its popularity in the online business. Besides having the integration of a single local payment gateway, it would be easier for clients to get to choose the payment gateway they wish to pay with.

- **Recommendation System:**

Based on the customer's preferences, it would be preferable to add a recommendation feature to help select the location. AI can be introduced to recommend the locations to customers.

- **Invitation Card:**

The system provides a feature for clients to send an online invitation via email. But it would be more attractive if the client could send more attractive invitations as a form of attachments or card to the invitees. Building a predesigned invitation card, where the customer can edit and design according to their taste would be a plus point for the application.

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7. Chapter 7: Appendix

7.1. Appendix A: Pre-survey

7.1.1. Pre-survey form

Questions Responses 52



Venue Booking System

Greetings,
I am Matina Tuladhar from Islington College. Currently I am conducting a valuable research on Venue Booking System in Nepal as a part of my Final Year Project. I will be very obliged if you could spare a few minutes to complete my survey and help me with the research. I assure complete confidentiality on your responses. Thank you.

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

Have you heard of online venue booking application? *

Yes

No

Have you ever used an online system to book a venue? *

Yes

No

Figure 130: Pre-survey form.

If yes, what website have you used?

Short-answer text
.....

How often do you attend an event in a venue (party venue, halls etc.)? *

Twice a month
 Once a month
 Few times a year

For what event would you likely book a venue? *

Marriage Ceremony
 Anniversary
 Birthday Party
 Other...

What method would you prefer to book a venue? *

Direct visit to venue
 Through online
 Phone call
 Through personal contacts
 Other...

Figure 131: Pre-survey form.

What mode of payment would you like for online booking? *

Credit card
 Cash payment on event date
 Other...

Do you think scheme system(discount specials, festival special) can bring more client to the event venues? *

Yes
 No
 It doesnot matter

On the scale of 1 to 5 how likely would you organize your events in event venues if there were special schemes (Discount special, festival special etc.)? *

1 2 3 4 5

Least likely Most likely

Have you ever send an online invitation card? *

Yes
 No

Figure 132: Pre-survey form.

On scale of 1 to 5 how willing are you to send invitations online? *

1	2	3	4	5	
Not likely	<input type="radio"/> Highly willing				

How much do you value others review on a product or service? *

1	2	3	4	5	
Not important	<input type="radio"/> Very important				

Are you likely to book a venue online in the near future? *

Yes
 No
 Maybe

What facilities would you like to have for an online event venue booking system?

Short-answer text
.....

Figure 133: Pre-survey form.

7.1.2. Sample of filled pre-survey form



Venue Booking System

Greetings,
I am Matina Tuladhar from Islington College. Currently I am conducting a valuable research on Venue Booking System in Nepal as a part of my Final Year Project. Please spare some time to fill up this form and share your opinions on this project.

*Required

Email address *

np01cp4a170135@gmail.com

Have you heard of online venue booking application? *

Yes
 No

Have you ever used an online system to book a venue? *

Yes
 No

If yes, what website have you used?

OYO

Figure 134: Sample of filled Pre-Survey form.

How often do you attend an event in a venue (party venue, halls etc.)? *

Twice a month
 Once a month
 Few times a year

For what event would you likely book a venue? *

Marriage Ceremony
 Anniversary
 Birthday Party
 Other: _____

What method would you prefer to book a venue? *

Direct visit to venue
 Through online
 Phone call
 Through personal contacts
 Other: _____

What mode of payment would you like for online booking? *

Credit card
 Cash payment on event date
 Other: _____

Figure 135: Sample of filled Pre-Survey form.

Do you think scheme system(discount specials, festival special) can bring more client to the event venues? *

Yes
 No
 It doesnot matter

On the scale of 1 to 5 how likely would you organize your events in event venues if there were special schemes (Discount special, festival special etc.)? *

1	2	3	4	5	
Least likely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> Most likely

Have you ever send an online invitation card? *

Yes
 No

On scale of 1 to 5 how willing are you to send invitations online? *

1	2	3	4	5
Not likely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> Highly willing

How much do you value others review on a product or service? *

1	2	3	4	5
Not important	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/> Very important

Figure 136: Sample of Pre-Survey Form.

How much do you value others review on a product or service? *

1 2 3 4 5

Not important Very important

Are you likely to book a venue online in the near future? *

Yes
 No
 Maybe

What facilities would you like to have for an online event venue booking system?

Your answer

Send me a copy of my responses.

Submit

Figure 137: Sample of filled Pre-Survey Form.

7.1.3. Pre-survey Result

Have you heard of online venue booking application?

52 responses

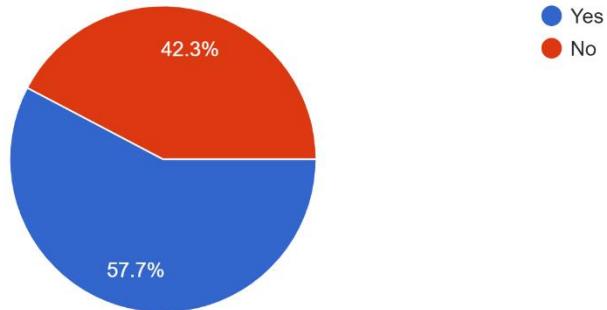


Figure 138: Survey Question 1.

Have you ever used an online system to book a venue?

52 responses

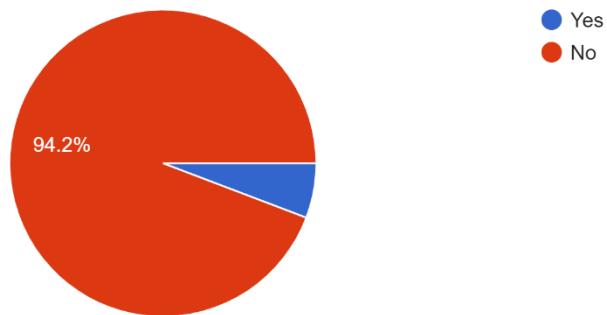


Figure 139: Survey Question 2.

If yes, what website have you used?

8 responses

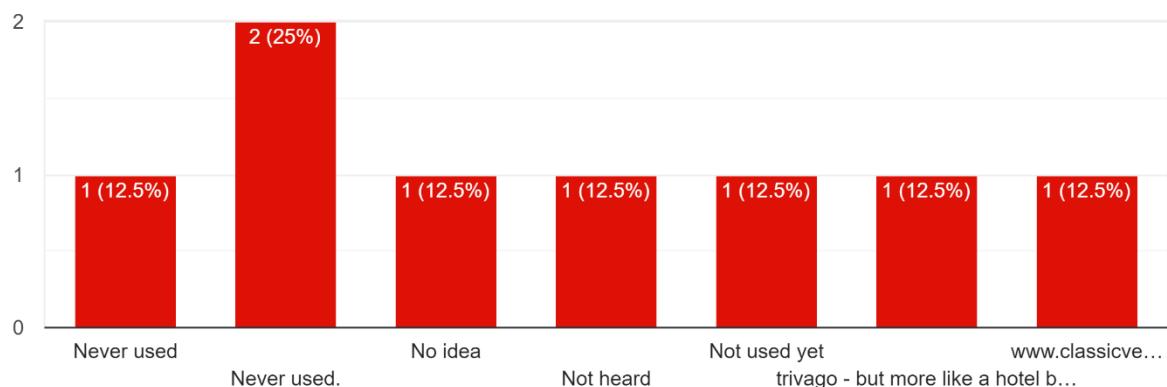


Figure 140: Survey Question 3.

How often do you attend an event in a venue (party venue, halls etc.)?

52 responses

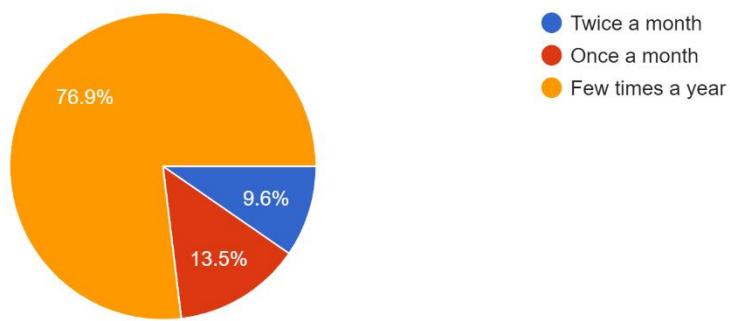


Figure 141: Survey Question 3.

For what event would you likely book a venue?

52 responses

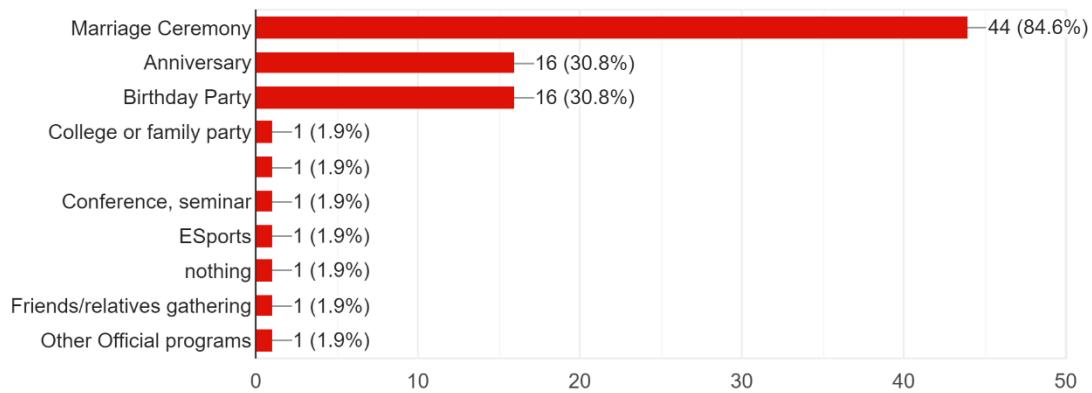


Figure 142: Survey Question 4.

What method would you prefer to book a venue?

52 responses

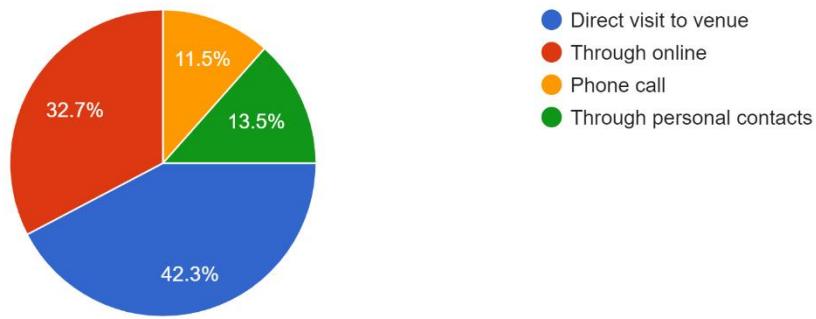


Figure 143: Survey Question 5.

What mode of payment would you like for online booking?

52 responses

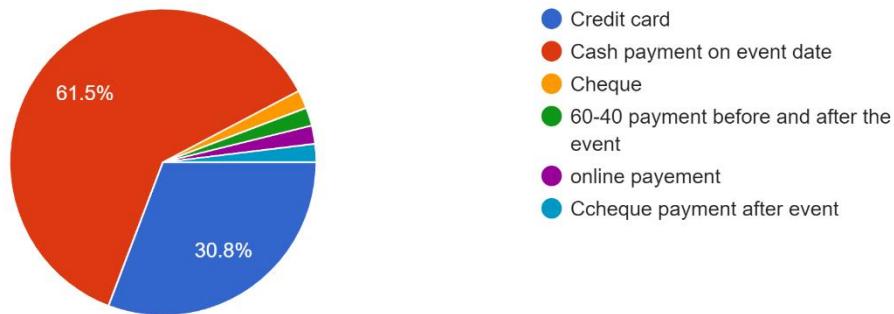


Figure 144: Survey Question 6.

Do you think scheme system(discount specials, festival special) can bring more client to the event venues?

52 responses

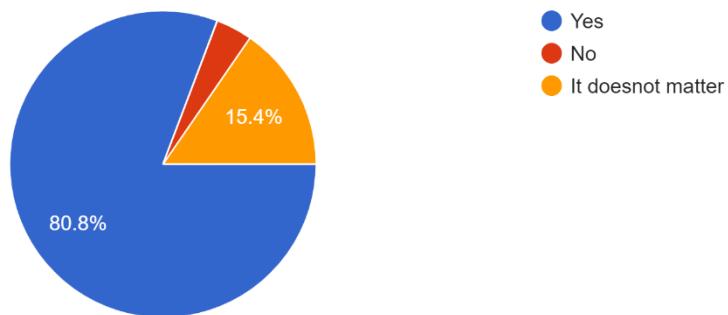


Figure 145: Survey Question 7.

On the scale of 1 to 5 how likely would you organize your events in event venues if there were special schemes (Discount special, festival special etc.)?

52 responses

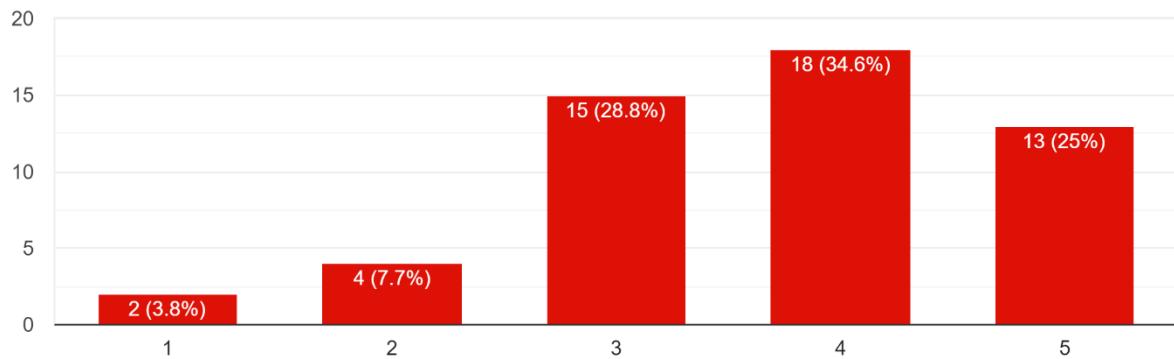


Figure 146: Survey Question 8.

On scale of 1 to 5 how willing are you to send invitations online?

52 responses

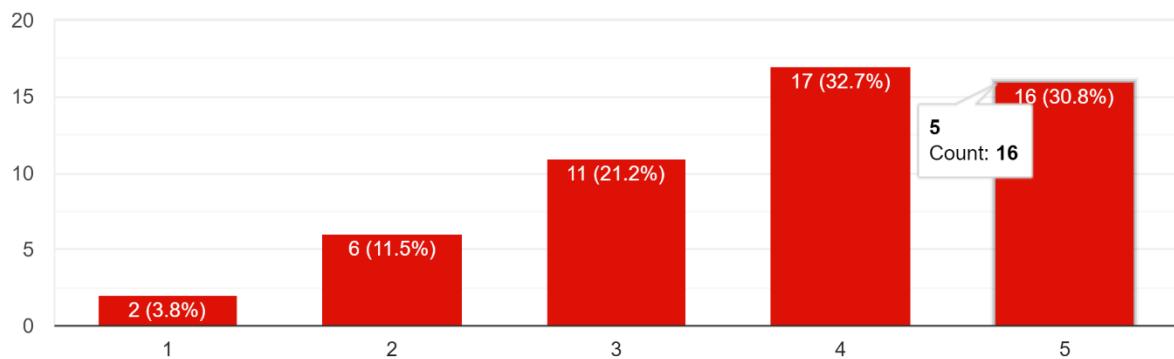


Figure 147: Survey Question 9.

Are you likely to book a venue online in the near future?

52 responses

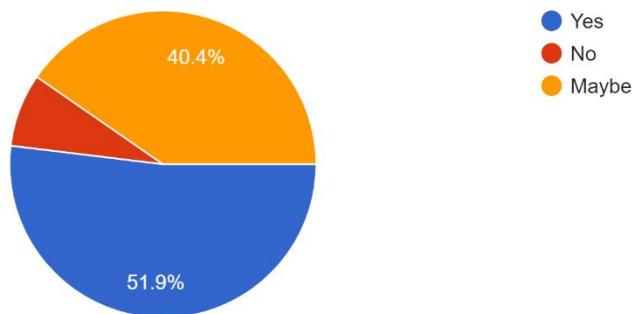


Figure 148: Survey Question 10.

What facilities would you like to have for an online event venue booking system?

35 responses

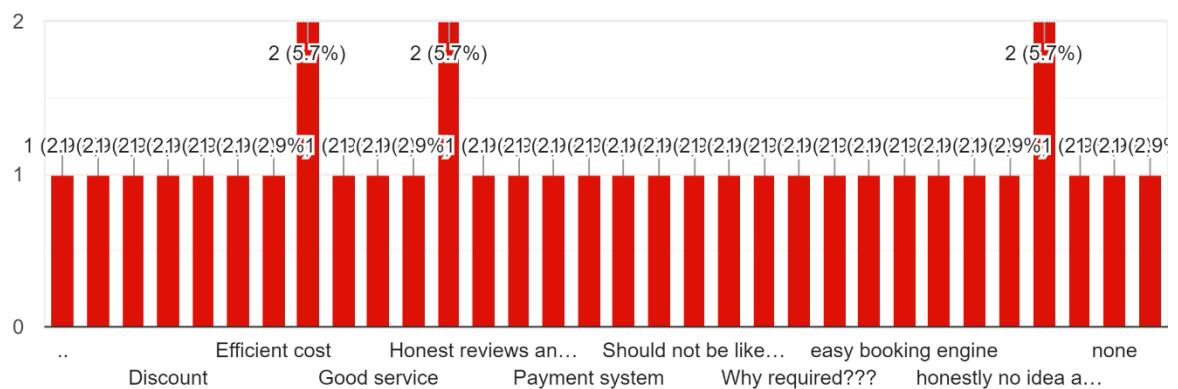


Figure 149: Survey Question 11.

7.2. Appendix B: Post-Survey

7.2.1. Post-Survey Form

Venue Booking System

Greetings,
I am Matina Tuladhar from Islington College. Currently I am conducting a valuable research on Venue Booking System in Nepal as a part of my Final Year Project. Please spare some time to fill up this form and share your opinions on this project.

Email address *

Valid email address

This form is collecting email addresses. [Change settings](#)

What was your overall experience using this Booking Application? *

Very Good
 Good
 Fair
 Poor

What did you find the most attractive in this Booking application? * *

User Friendly UI
 Functionality
 Simplicity

Would it be helpful to view and book your venue online for your event? *

Yes
 No
 Maybe

Figure 150: Post-Survey Form.

How easy was the application to use? *

1	2	3	4	5	
Difficult	<input type="radio"/> Easy				

How likely would you recommend the application to a friend or a colleague? *

1	2	3	4	5	
Not Likely	<input type="radio"/> Likely				

Do you have any other comments or suggestion for enhancing this application?

Long-answer text
.....

Figure 151: Post-Survey Form.

7.2.2. Sample of filled Post-Survey form

Venue Booking System

Greetings,
I am Matina Tuladhar from Islington College. Currently I am conducting a valuable research on Venue Booking System in Nepal as a part of my Final Year Project. Please spare some time to fill up this form and share your opinions on this project.

*Required

Email address *

np01cp4a170135@gmail.com

What was your overall experience using this Booking Application? *

Very Good
 Good
 Fair
 Poor

What did you find the most attractive in this Booking application? * *

User Friendly Ui
 Functionality
 Simplicity

Figure 152: Sample of filled Post-Survey Form.

Would it be helpful to view and book your venue online for your event? *

Yes
 No
 Maybe

How easy was the application to use? *

1 2 3 4 5
Difficult Easy

How likely would you recommend the application to a friend or a colleague? *

1 2 3 4 5
Not Likely Likely

Do you have any other comments or suggestion for enhancing this application?

Your answer

Figure 153: Sample of filled Post-Survey Form.

7.2.3. Post-Survey Result

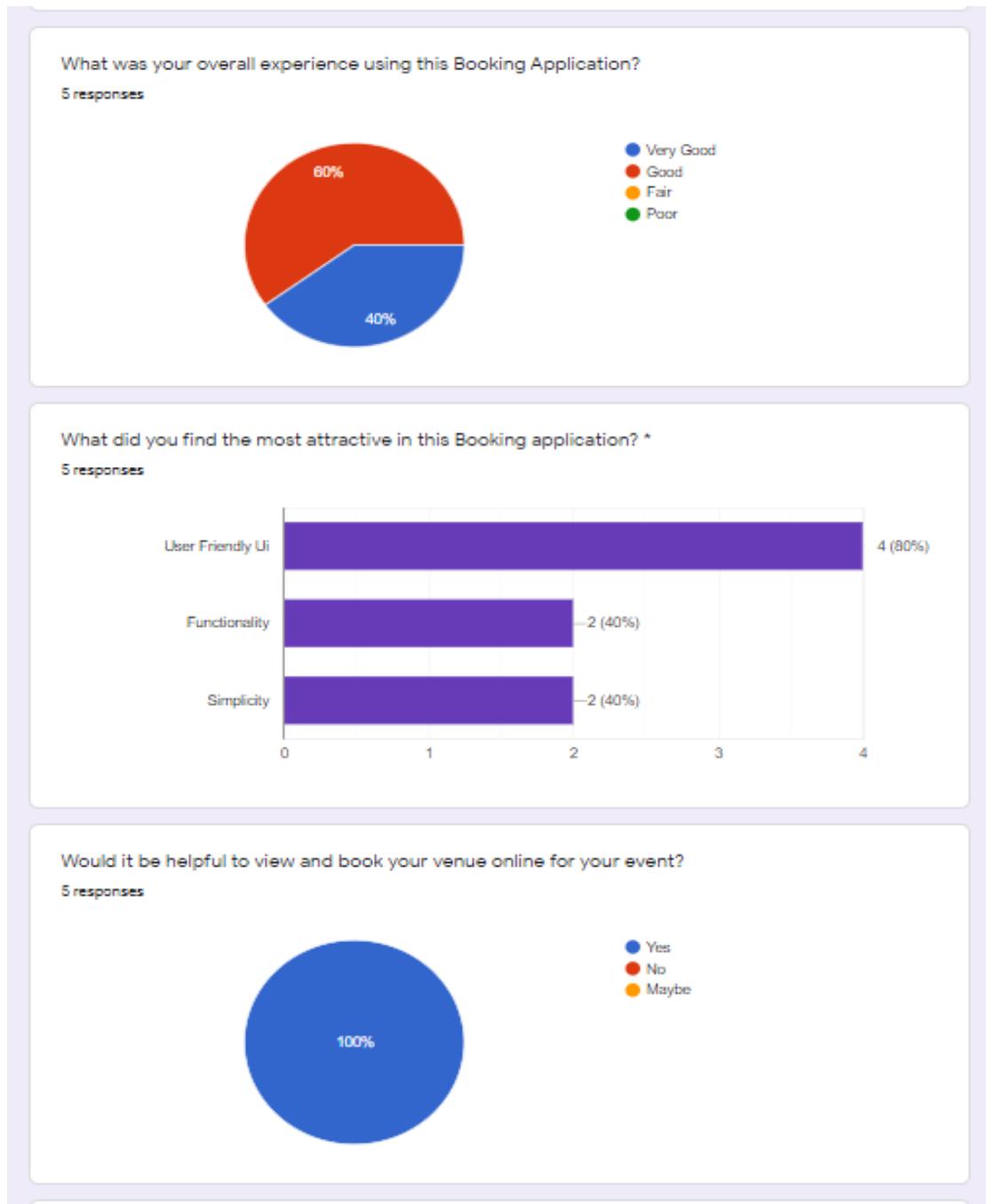


Figure 154: Post-Survey Result.

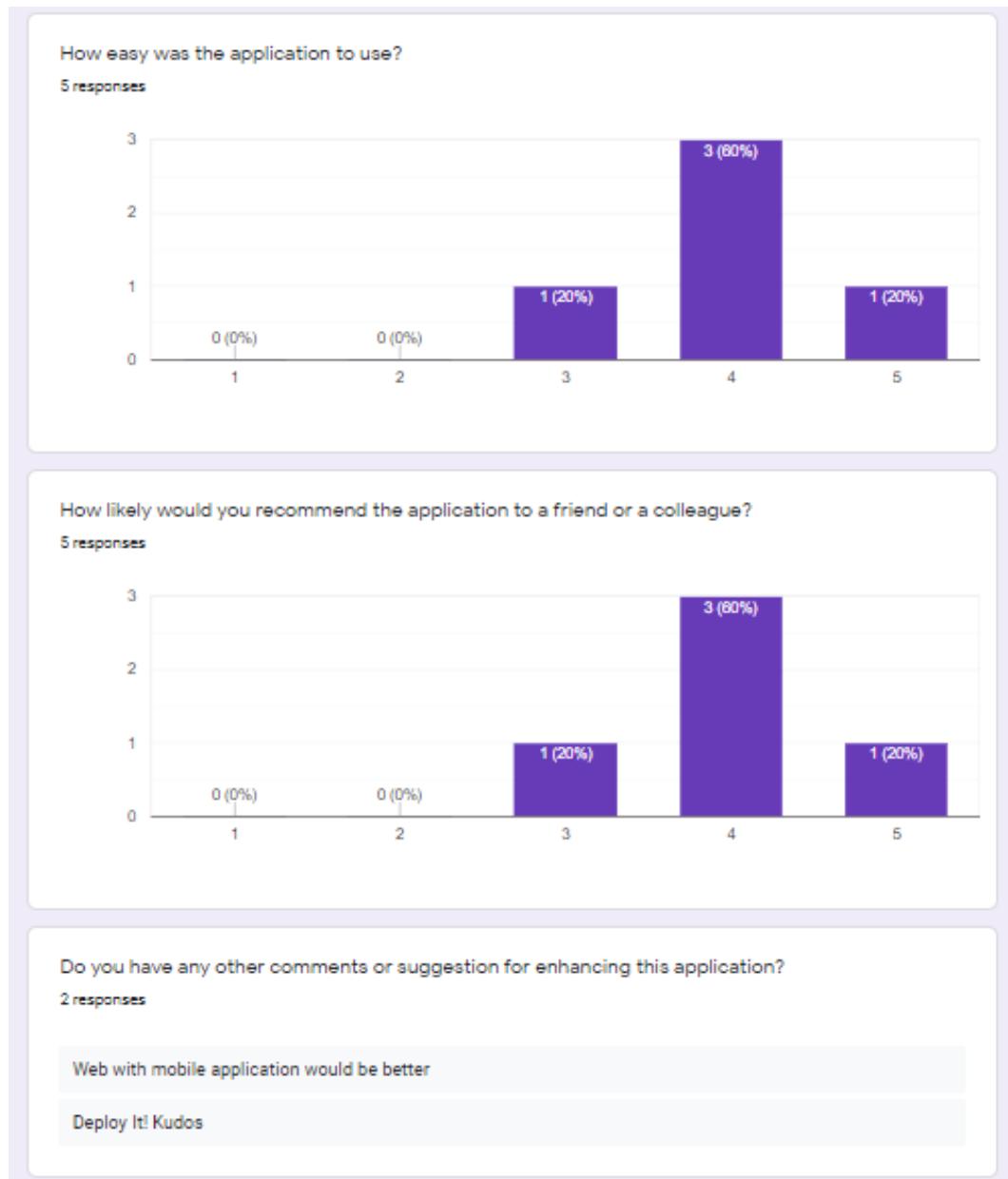


Figure 155: Post-Survey Result.

7.3. Appendix C: Sample Codes

7.3.1. Sample code for UI

- **Base Page**

This page consists of all links to CSS, JavaScript files and other shareable files. All other files have to inherit this page.

```
{% load static %}

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <!-- Font Awesome -->
    <link rel="stylesheet" href="{% static 'css/all.css' %}">
    <!-- Bootstrap -->
    <link rel="stylesheet" href="{% static 'css/bootstrap.css' %}">
    <!-- Custom -->
    <link rel="stylesheet" href="{% static 'css/style.css' %}">
    <!-- Lightbox -->
    <link rel="stylesheet" href="{% static 'css/lightbox.min.css' %}">

    <title> Book Venue {% block title %}{% endblock %}</title>
</head>

<body>
    <!-- Top Bar -->
    {% include 'partials/_topbar.html' %}
    <!-- NavBar -->
    {% include 'partials/_navbar.html' %}
    <!-- Main Content -->
    {% block content %} {% endblock %}
    <!-- Footer -->
    {% include 'partials/_footer.html' %}

    <script src="{% static 'js/jquery-3.3.1.min.js' %}"></script>
    <script src="{% static 'js/bootstrap.bundle.min.js' %}"></script>
    <script src="{% static 'js/lightbox.min.js' %}"></script>
    <script src="{% static 'js/main.js' %}"></script>

</body>
</html>
```

Figure 156: Sample Code for base page.

- **Home Page**

Below consist snippets UI code for search bar and listings for home page.

```
[% extends 'base.html' %]

{% load humanize %}

{% block title %} | Welcome {% endblock %}

{% block content %}
<!-- Showcase -->
<section id="showcase"
  style="background-image:url(static/img/board.jpg);background-repeat: no-repeat;background-size:cover;">
  <div class="container text-center">
    <div class="home-search p-5">
      <div class="overlay p-5">
        <h1 class="display-4 mb-4">
          Find Your Venue!
        </h1>
        <p class="lead">We help you find best venue for your day!</p>
        <div class="search">
          <form action="{% url 'search' %}">
            <!-- Form Row 1 -->

            <div class="form-row">
              <div class="col-md-6 mb-3">
                <label class="sr-only">City</label>
                <input type="text" name="city" class="form-control" placeholder="City" value="{{ values.city }}">
              </div>
              <div class="col-md-6 mb-3">
                <select name="states" class="form-control" id="type">
                  <option selected="true" disabled="disabled">State</option>
                  {% for key,value in state_choices.items %}
                    <option value="{{ key }}>{{ value }}</option>
                  {% endfor %}
                </select>
              </div>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
</section>
```

Figure 157: Sample Code for Search UI.

```
<!-- Listings -->
<section id="listings" class="py-5">
  <div class="container">
    <h3 class="text-center mb-3">Latest Listings</h3>
    <div class="row">
      {% if listings %}
      {% for listing in listings %}
        <!-- Listing 1 -->
        <div class="col-md-12 col-lg-4 mb-4">
          <div class="card listing-preview">
            
            <div class="card-img-overlay">
              <h2>
                {% if listing.discounted_price %}
                  <span class="badge badge-secondary text-white">Rs.{{ listing.discounted_price | intcomma }}</span>
                {% else %}
                  <span class="badge badge-secondary text-white">Rs.{{ listing.price | intcomma }}</span>
                {% endif %}
              </h2>
            </div>
            <div class="card-body">
              <div class="listing-heading text-center">
                <h4 class="text-primary">{{ listing.title }}</h4>
                <p>
                  | <i class="fas fa-map-marker text-secondary"></i> {{ listing.city }}, {{ listing.state }}</p>
              </div>
              <hr>

              <div class="row py-2 text-secondary">
                <div class="col-12">
                  {% if listing.discounted_price %}
                    <i class="fas fa-th-large"></i> Discounted Price: Rs.{{ listing.discounted_price }}<br>
                    <del><i class="fas fa-th-large"></i> Price: Rs.{{ listing.price }}</del>
                  {% else %}
                    <i class="fas fa-th-large"></i> Price: Rs.{{ listing.price }}
                  {% endif %}
                </div>
              </div>
            </div>
          </div>
        </div>
      {% endfor %}
    </div>
  </div>
</section>
```

Figure 158: Sample code for listing UI.

- **User Login**

```
{% block title %} | Account Login {% endblock %}

{% block content %}
<section id="login" class="bg-light py-5">
    <div class="container">
        <div class="row">
            <div class="col-md-6 mx-auto">
                <div class="card">
                    <div class="card-header bg-primary text-white">
                        <h4>
                            <i class="fas fa-sign-in-alt"></i> Login</h4>
                    </div>
                    <div class="card-body">
                        <!-- Alerts -->
                        {% include 'partials/_alerts.html' %}
                        <form action="{% url 'login' %}" method="POST">
                            {% csrf_token %}
                            <div class="form-group">
                                <label for="username">Username</label>
                                <input type="text" name="username" class="form-control" required>
                            </div>

                            <div class="form-group">
                                <label for="password2">Password</label>
                                <input type="password" name="password" class="form-control" required>
                            </div>

                            <input type="submit" value="Login" class="btn btn-secondary btn-block">
                        </form>
                    </div>
                </div>
            </div>
        </div>
    </div>
</section>
{% endblock %}
```

Figure 159: Sample code for Login UI.

- **User Registration Form**

```
<div class="card-body">
    <!-- Alerts -->
    {% include 'partials/_alerts.html' %}
    <form action="{% url 'register' %}" method="POST">
        {% csrf_token %}
        <div class="form-group">
            <label for="first_name">First Name</label>
            <input type="text" name="first_name" class="form-control" required>
        </div>
        <div class="form-group">
            <label for="last_name">Last Name</label>
            <input type="text" name="last_name" class="form-control" required>
        </div>
        <div class="form-group">
            <label for="username">Username</label>
            <input type="text" name="username" class="form-control" required>
        </div>
        <div class="form-group">
            <label for="email">Email</label>
            <input type="email" name="email" class="form-control" required>
        </div>
        <div class="form-group">
            <label for="password2">Password</label>
            <input type="password" name="password" class="form-control" required>
        </div>
        <div class="form-group">
            <label for="password">Confirm Password</label>
            <input type="password" name="password2" class="form-control" required>
        </div>
        <div class="form-group">
            <label for="phone_number">Phone Number</label>
            <input type="text" name="phone_number" class="form-control" required>
        </div>
        <input type="submit" value="Register" class="btn btn-secondary btn-block">
    </form>
</div>
```

Figure 160: Sample code for User Registration UI.

- Add Venue

```
{% csrf_token %}

<div class="form-group">
    <label for="title">Venue Name</label>
    <input type="text" name="title" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_address">Address</label>
    <input type="text" name="address" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_city">city</label>
    <input type="text" name="city" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_state">State</label>
    <input type="text" name="state" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_description">Description</label>
    <input type="text" name="description" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_price">Price</label>
    <input type="number" name="price" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_discounted_price">Discounted Price</label>
    <input type="number" name="discounted_price" class="form-control">
</div>
<div class="form-group">
    <label for="id_accommodation">Accommodation Number</label>
    <input type="number" name="accommodation" class="form-control" required>
</div>
<div class="form-group">
    <label for="id_sqft">sqft</label>
    <input type="number" name="sqft" class="form-control" required>
</div>
```

Figure 161: Sample Code Add Venue UI.

- **Send Invitation**

```
<input type="hidden" name="listing_id" value="{{ listing.id }}>

<div class="form-group">
    <label for="name" class="col-form-label">Name:</label>
    <input type="text" name="name" class="form-control" {% if user.is_authenticated %}
        value="{{ user.first_name }} {{ user.last_name }}" {% endif %} required>
</div>
<div class="form-group">
    <label for="email" class="col-form-label">Email:</label>
    <input type="email" name="email" class="form-control" {% if user.is_authenticated %}
        value="{{ user.email }}" {% endif %} required>
</div>
<div class="form-group">
    <label for="invitee_email" class="col-form-label">Invitees Email:</label>
    <input type="email" id="myEmail" name="invitee_email" class="form-control" multiple>
</div>

<div class="form-group">
    <label for="message" class="col-form-label">Message:</label>
    <textarea name="message" class="form-control"></textarea>
</div>

<hr>
<input type="submit" value="Send" class="btn btn-block btn-secondary" onclick="myFunction()">
</form>

<script>
    function myFunction() {
        var x = document.getElementById("myEmail").multiple;
    }
</script>
```

Figure 162: Sample Code for Invite UI.

- Book Venue

```

<div class="modal-header">
  <h5 class="modal-title" id="bookingModalLabel">Make Booking</h5>
  <button type="button" class="close" data-dismiss="modal">
    <span>&times;</span>
  </button>
</div>
<div class="modal-body">
  <form action="{% url 'book' %}" method="POST">
    {% csrf_token %}
    {% if user.is_authenticated %}
      <input type="hidden" name="user_id" value="{{ user.id }}">
    {% else %}
      <input type="hidden" name="user_id" value="0">
    {% endif %}
      <input type="hidden" name="dealer_email" value="{{ listing.dealer.email }}">
      <input type="hidden" name="listing_id" value="{{ listing.id }}">
      <div class="form-group">
        <label for="property_name" class="col-form-label">Property:</label>
        <input type="text" name="listing" class="form-control" value="{{ listing.title }}">
      </div>
      <div class="form-group">
        <label for="name" class="col-form-label">Name:</label>
        <input type="text" name="name" class="form-control" {% if user.is_authenticated %}
          value="{{ user.first_name }} {{ user.last_name }}" {% endif %} required>
      </div>
      <div class="form-group">
        <label for="email" class="col-form-label">Email:</label>
        <input type="email" name="email" class="form-control" {% if user.is_authenticated %}
          value="{{ user.email }}" {% endif %} required>
      </div>
      <div class="form-group">
        <label for="phone" class="col-form-label">Phone:</label>
        <input type="text" name="phone" class="form-control" {% if user.is_authenticated %}
          value="{{ user.phone_number }}" {% endif %}>
      </div>
      <div class="form-group">
        <label for="booking_date" class="col-form-label">Booking Date:</label>

```

Figure 163: Sample Code for Book Venue.

7.4. Appendix D: Designs

7.4.1. Gantt Chart

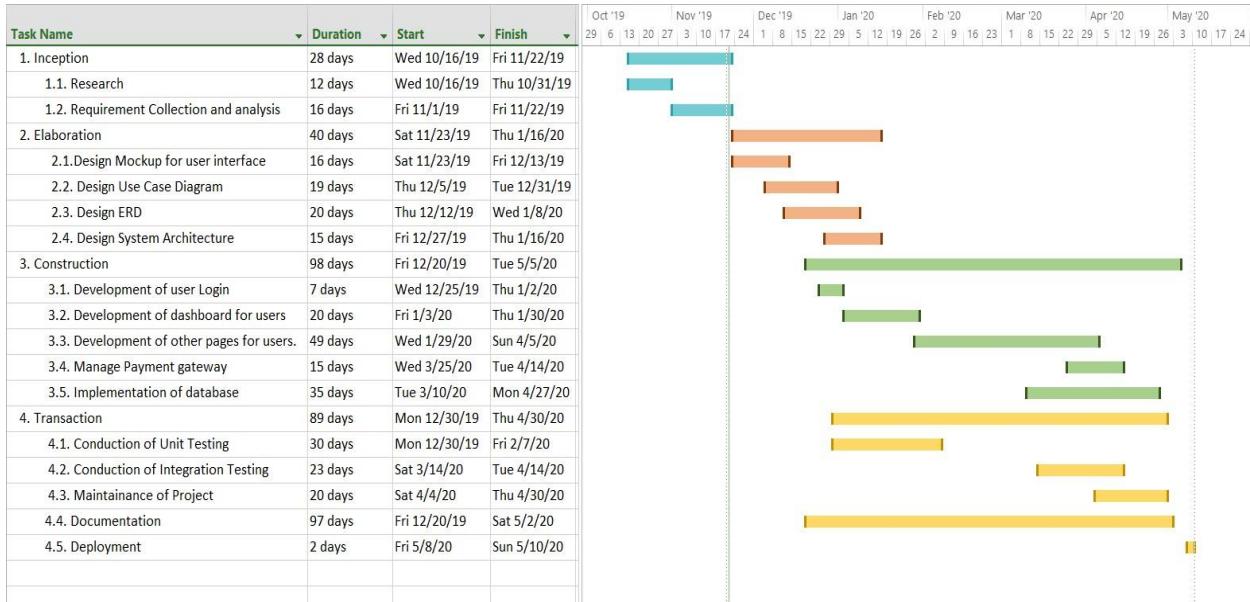


Figure 164: Gantt Chart.

7.4.2. Work Breakdown structure

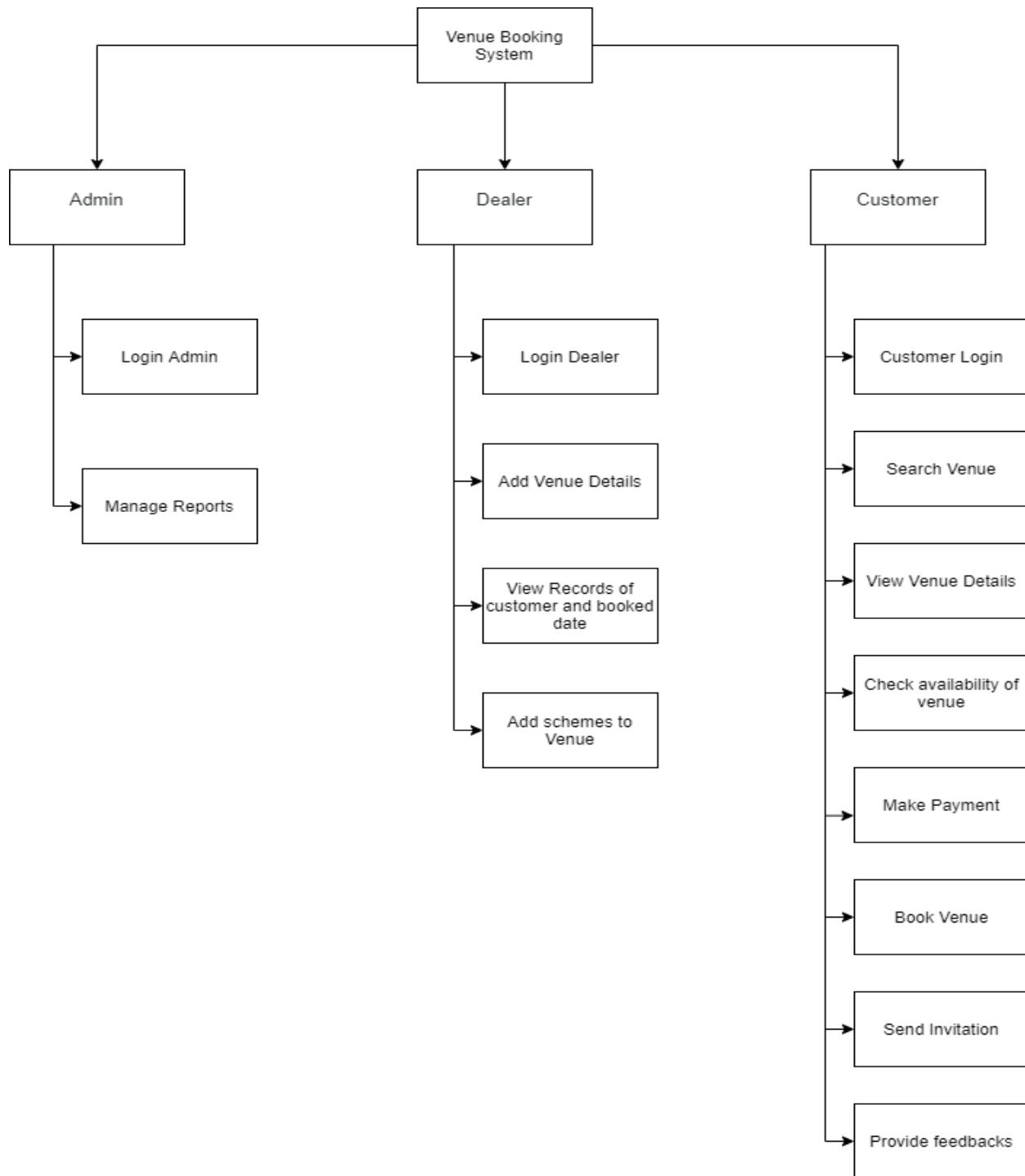


Figure 165: Work Breakdown.

7.4.3. Architecture

The following diagram shows the architecture of system which will be followed by this project. The software design pattern comprises of three main components: Model, View and Template.

Model: Model mainly helps handle the database. The database to be used is MySQL. All the data would be stored in the Server MySQL database.

Template: The template is the presentation layer. The layer handles all user interfaces. HTML, CSS are comprised in this layer.

View: The view layer is used to execute the business logic and interact with model to carry data and render template.

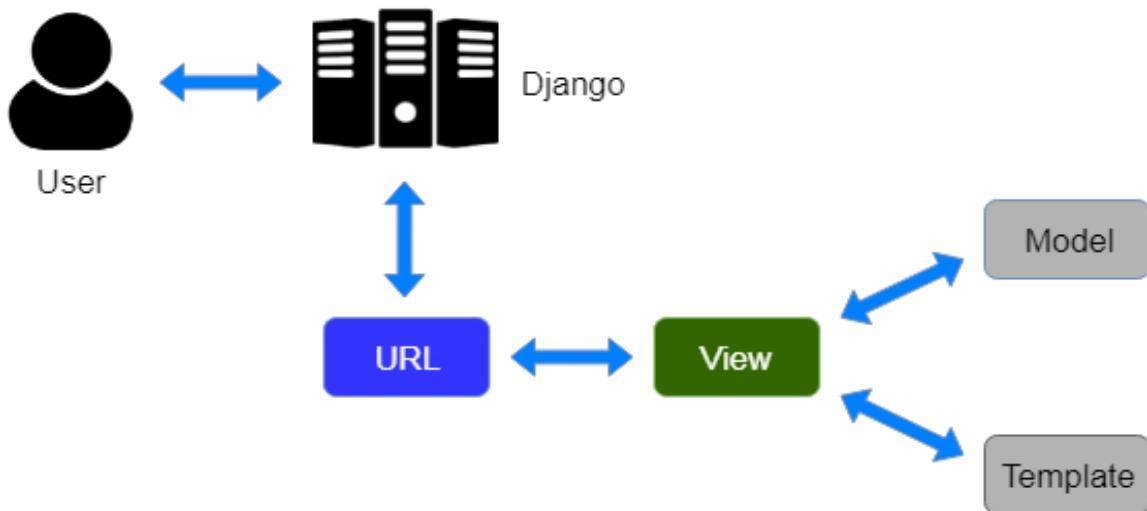


Figure 166: MVT architecture.

7.4.4. Entity Relational Diagram

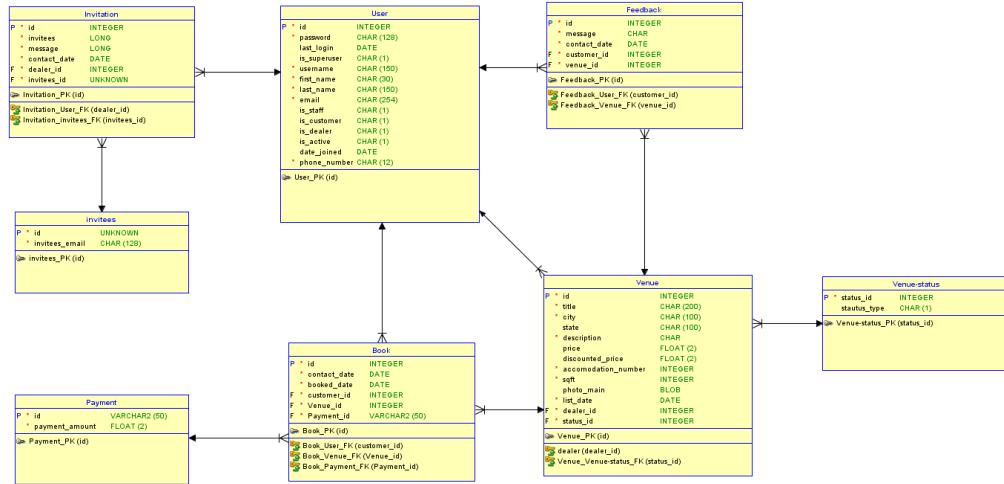


Figure 167: ERD.

7.4.5. Data Flow Diagrams

7.4.5.1. Context Level DFD

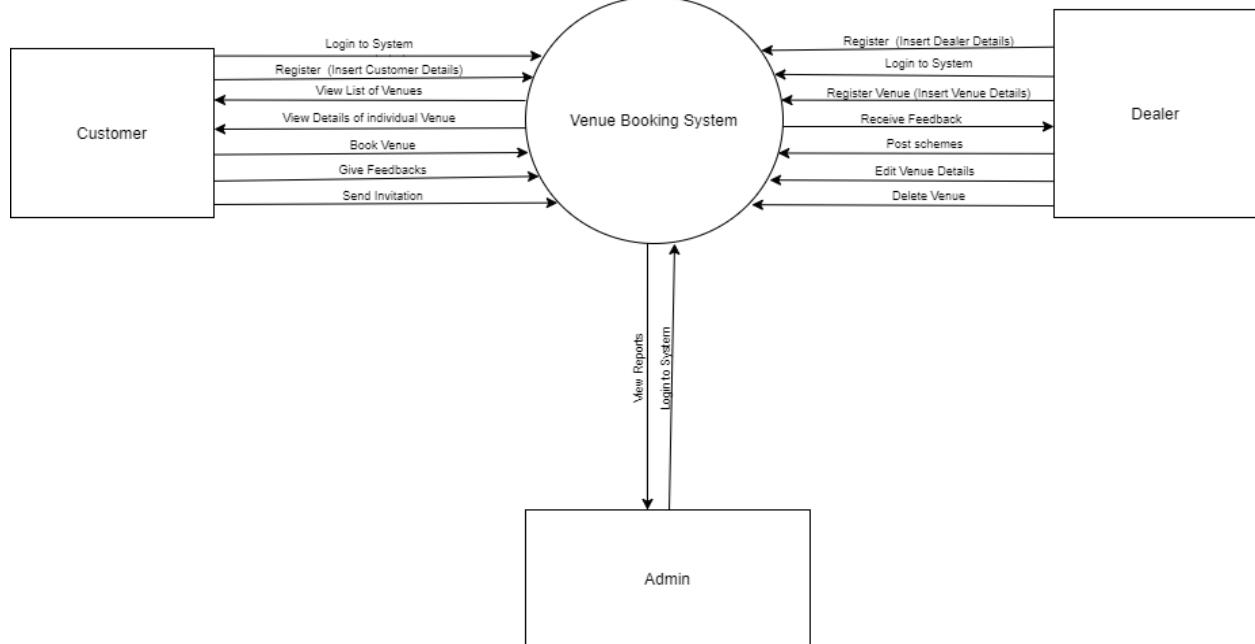


Figure 168: Context level DFD.

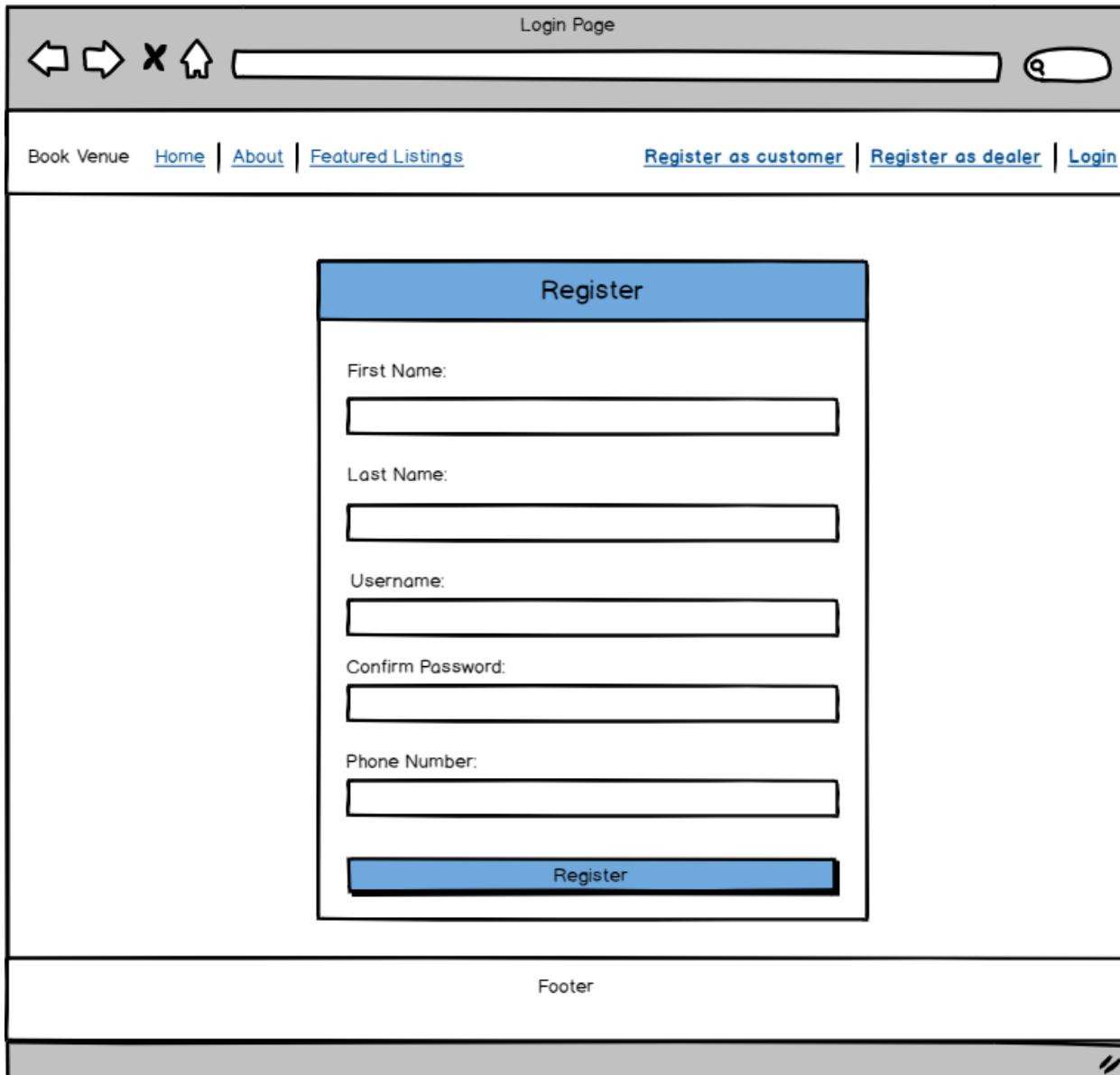
7.4.6. Use Case



Figure 169: Use case diagram.

7.4.7. Wireframe

7.4.7.1. User Registration Page



The wireframe depicts a web browser window titled "Login Page". At the top, there are standard navigation icons (back, forward, stop, refresh) and a search bar. Below the toolbar, a horizontal menu bar contains links: "Book Venue", "Home", "About", "Featured Listings", "Register as customer", "Register as dealer", and "Login". The main content area is a registration form titled "Register". It includes fields for "First Name", "Last Name", "Username", "Confirm Password", and "Phone Number", each with an associated input box. A large blue "Register" button is positioned at the bottom of the form. Below the form is a "Footer" section, which is currently empty.

Figure 170: Wireframe: Registration.

7.4.7.2. Login Page

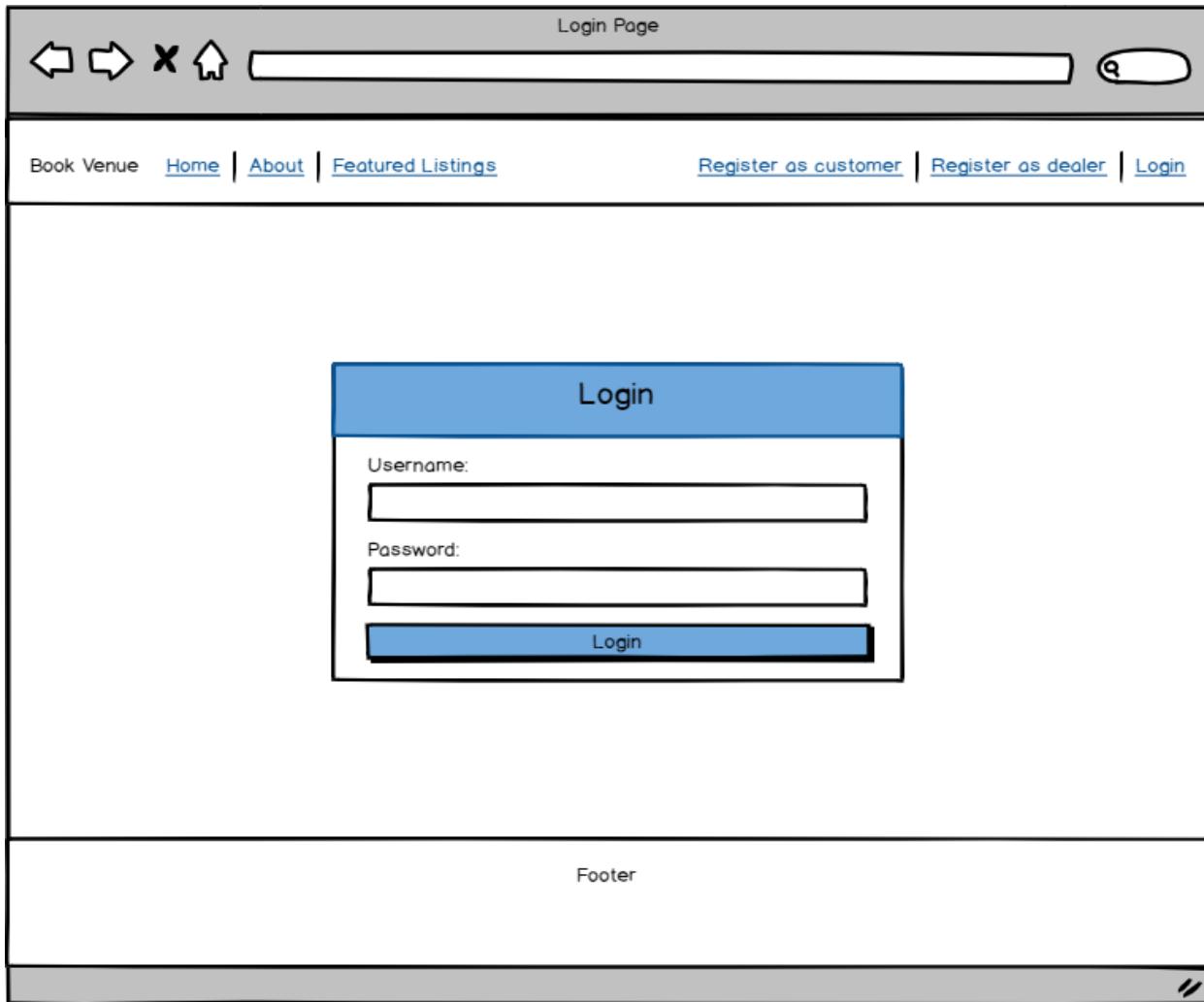


Figure 171: Wireframe: Login.

7.4.7.3. Add Venue/ Register Venue Page

The screenshot shows a web browser window titled "Register Venue Page". The page has a header with navigation icons (back, forward, search, etc.) and a top menu bar with links: "Book Venue", "Home", "About", "Featured Listings", "Register Venue", "Dashboard", and "Logout". The main content area is a form titled "Register Venue" containing fields for "Venue Name", "Venue Address", "Description", "Accommodation Number", "Price", "Discounted Price", "Sqft", and "Photo". A "Register" button is at the bottom of the form. Below the form is a "Footer" section.

Register Venue	
Venue Name	<input type="text"/>
Venue Address	<input type="text"/>
Description	<input type="text"/>
Accommodation Number	<input type="text"/>
Price	<input type="text"/>
Discounted Price	<input type="text"/>
Sqft	<input type="text"/>
Photo	<input type="text"/>
<input type="button" value="Register"/>	

Figure 172: Add Venue/ Register Venue.

7.4.7.4. Home Page/ Landing Page

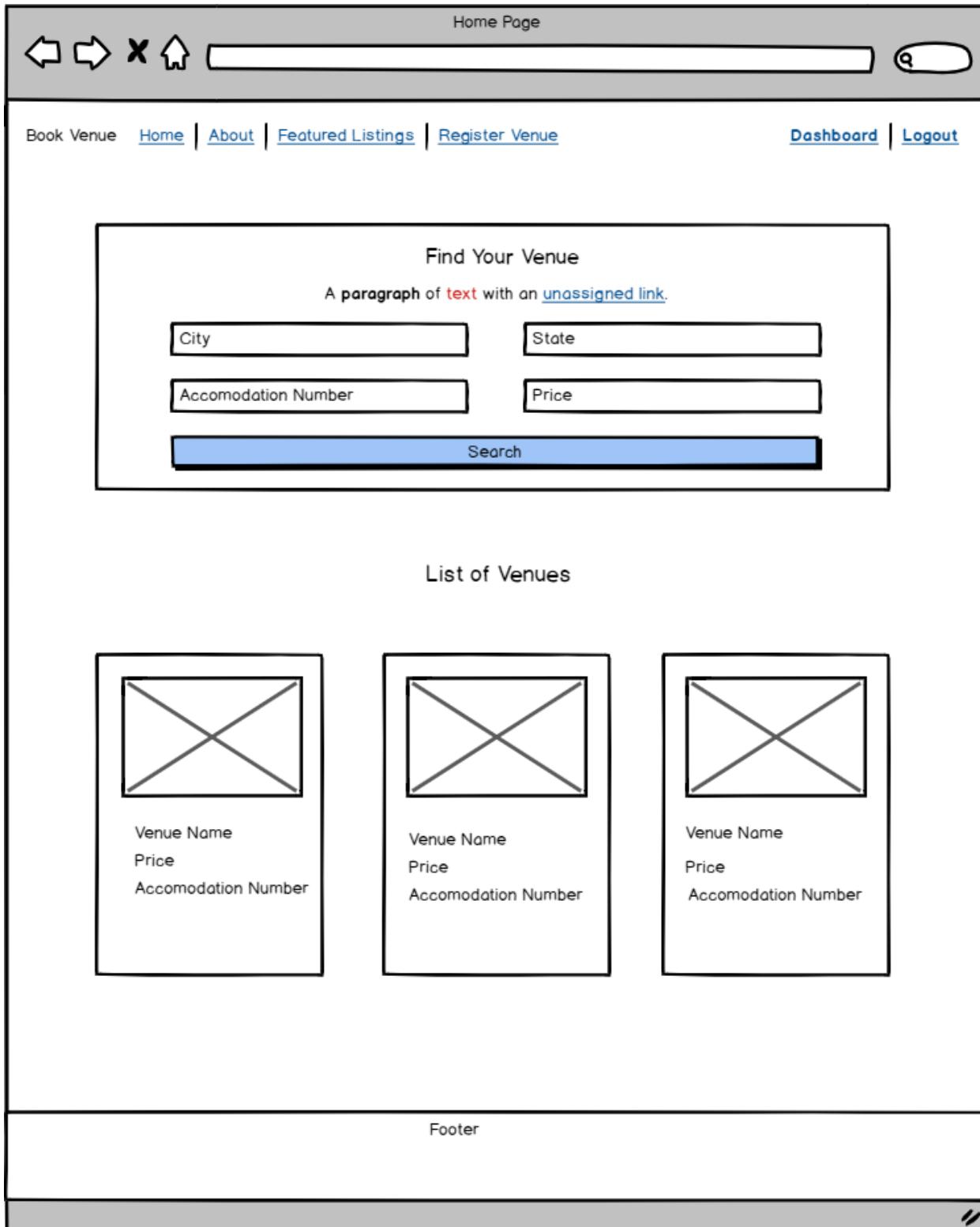


Figure 173: Wireframe: Home Page/ Landing page.

7.4.7.5. Venue Details Page

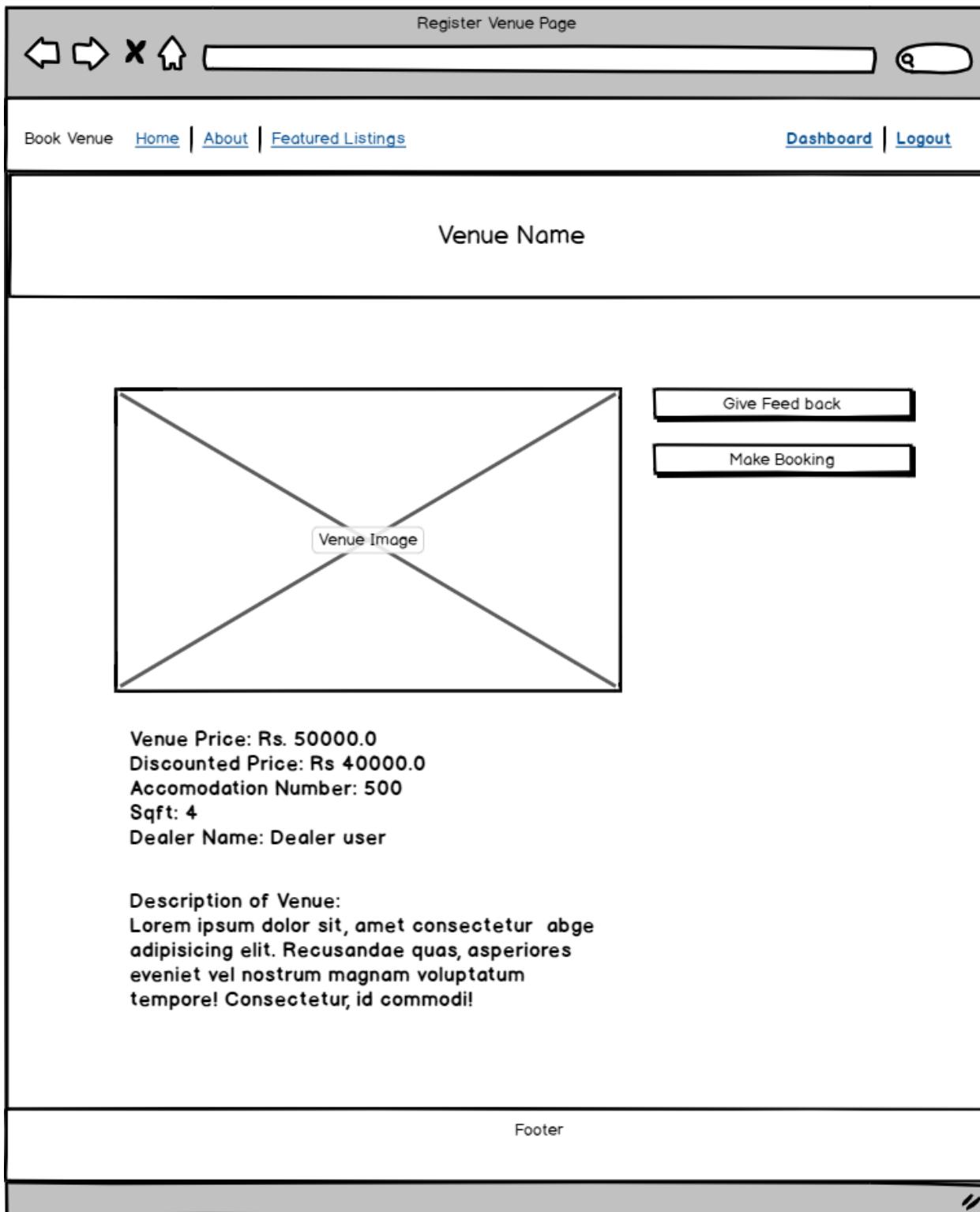


Figure 174: View Venue Details.

7.4.7.6. Book Venue Page

The wireframe illustrates the 'Booking Page' for 'Book Venue'. The page features a header with navigation icons (back, forward, search) and links for 'Home' and 'About'. On the right side, there are 'Dashboard' and 'Logout' links. The main content area is titled 'Make Booking' and contains the following fields:

- Venue Name: abgtrt
- Customer Name: abgtrt
- Customer Email: abgtrt
- Customer Phone Number: abgtrt
- Booking Date: abgtrt

Below these fields are two blue rectangular buttons: 'Pay with Khalti' and 'Book'. To the right of the booking form are two buttons: 'Send Feed back' and 'Make Booking'. At the bottom left, there is descriptive text about the venue's price and accommodations, followed by a 'Description of Venue' section containing placeholder text. A footer at the bottom of the page contains the word 'Footer'.

Venue Price:
Discounted Price: RS 400000.0
Accomodation Number: 500
Sqft: 4
Dealer Name: Dealer user

Description of Venue:
Lorem ipsum dolor sit, amet consectetur abge
adipisicing elit. Recusandae quas, asperiores
eveniet vel nostrum magnam voluptatum
tempore! Consectetur, id commodi!

Footer

Figure 175: Wireframe: Book Venue.

7.4.7.7. Send Feedback Page

The wireframe illustrates the 'Send Feedback' page. At the top, there's a header bar with icons for back, forward, search, and refresh, followed by a title 'Feedback Page'. Below the header, the navigation menu includes 'Book Venue', 'Home', 'About', 'Dashboard', and 'Logout'. A sidebar on the left contains a large gray area with a diagonal line and some placeholder text at the bottom: 'Venue Price:', 'Discounted Price: RS 40000.0', 'Accommodation Number: 500', 'Sqft: 4', and 'Dealer Name: Dealer user'. The main content area is titled 'Send Feedback' and contains five input fields: 'Venue Name' (value: abgtrt), 'Customer Name' (value: abgtrt), 'Customer Email' (value: abgtrt), 'Customer Phone Number' (value: abgtrt), and 'Message' (an empty text area). To the right of these fields are two buttons: 'Send Feed back' and 'Make Booking'. At the bottom of the page is a footer section.

Figure 176: Wireframe: Send Feedback.

7.4.7.8. Edit Venue Details Page

The wireframe depicts a web browser window titled "Edit Venue Page". The header includes standard navigation icons (back, forward, search, etc.) and links for "Book Venue", "Home", "About", "Featured Listings", "Register Venue", "Dashboard", and "Logout". A central modal dialog box is titled "Edit Venue". It contains the following form fields:

Venue Name	abgtrt
Venue Address	gtgeeg
Description	gegewerf
Accommodation Number	444
Price	23455
Discounted Price	4242
Sqft	4
Photo	(empty input field)
<input type="button" value="Update"/>	

A footer section at the bottom of the page contains the word "Footer".

Figure 177: Wireframe: Edit Venue Details.

7.4.7.9. Delete Venue Page

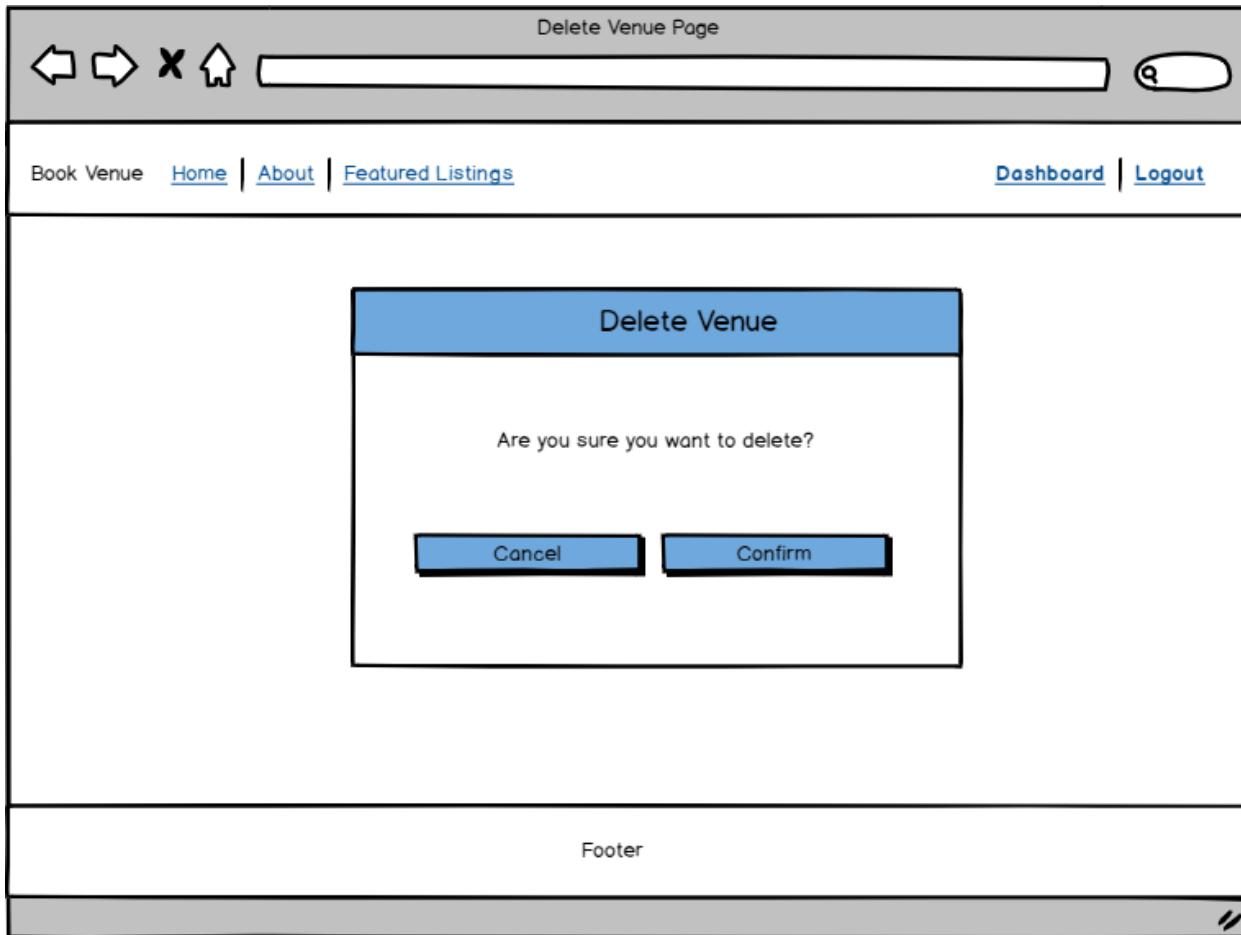
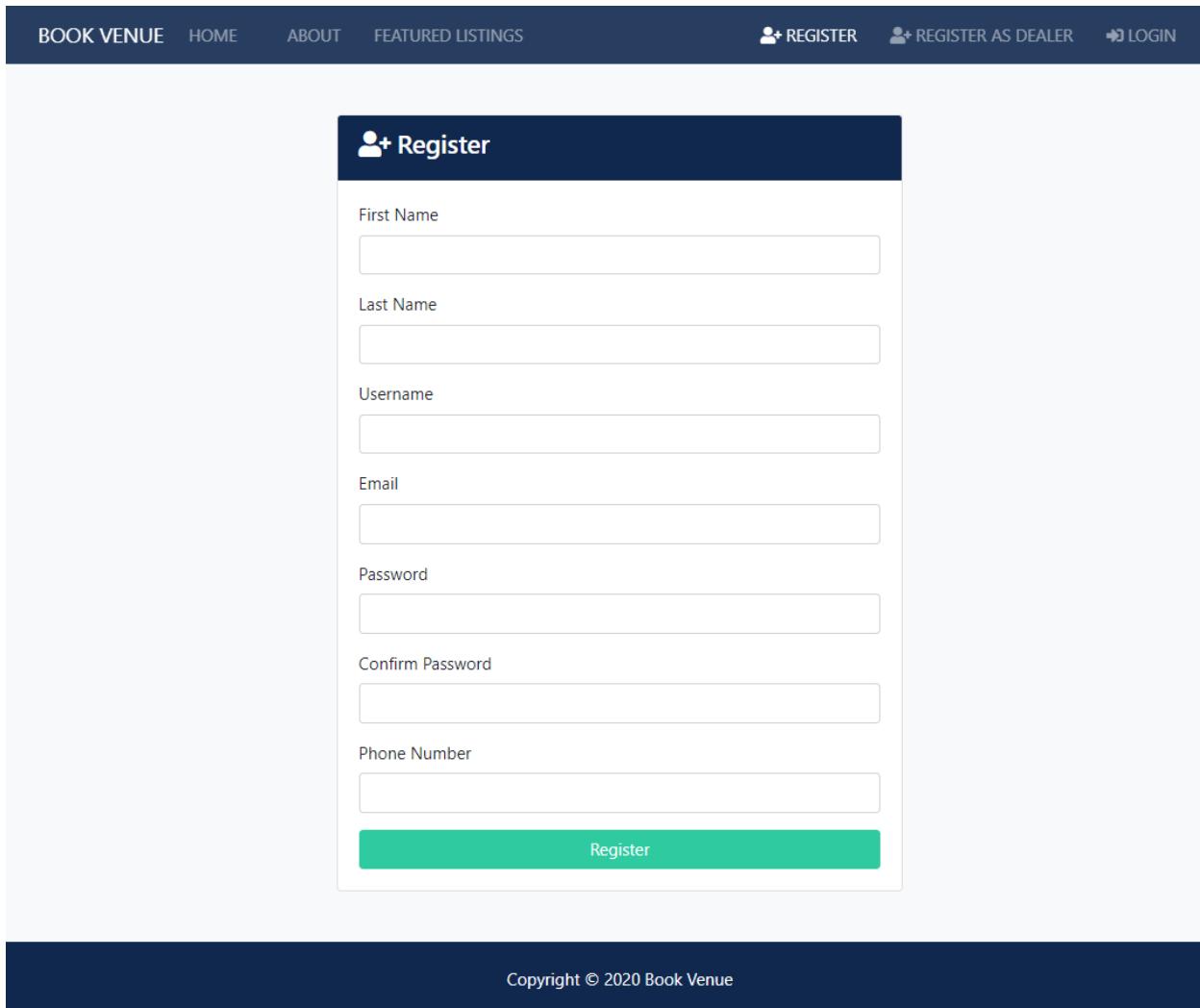


Figure 178: Wireframe: Delete Venue.

7.5. Appendix E: Screenshots of the System

7.5.1. User Registration Page



The screenshot shows the User Registration page of a website. At the top, there is a dark blue header bar with white text. On the left side of the header, it says "BOOK VENUE", "HOME", "ABOUT", and "FEATURED LISTINGS". On the right side, there are three buttons: "REGISTER" (with a user icon), "REGISTER AS DEALER" (with a user icon), and "LOGIN" (with a user icon). Below the header is a large form titled "Register". The form consists of several input fields: "First Name" (empty), "Last Name" (empty), "Username" (empty), "Email" (empty), "Password" (empty), "Confirm Password" (empty), and "Phone Number" (empty). At the bottom of the form is a green "Register" button. At the very bottom of the page, there is a dark blue footer bar with white text that reads "Copyright © 2020 Book Venue".

Figure 179: User Registration Page.

7.5.2. Login Page

The screenshot shows the login interface for the Book Venue website. At the top, there is a dark blue header bar with white text. From left to right, it contains: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER' (with a user icon), 'REGISTER AS DEALER' (with a user icon), and 'LOGIN' (with a right-pointing arrow icon). Below the header is a large, light-colored form area with a dark blue header titled 'Login'. The form has two input fields: 'Username' containing 'admin' and 'Password' containing '.....'. A green 'Login' button is at the bottom of the form. At the very bottom of the page, there is a dark blue footer bar with white text that reads 'Copyright © 2020 Book Venue'.

Figure 180: Login Page.

7.5.3. Home Page/ Landing Page

Find Your Venue!

We help you find best venue for your day!

City : State :

Accommodation (All) Max Price (Any)

Search

Latest Listings

Shree Nath
Kathmandu, Kathmandu

Price: Rs.12000.0
Accommodation Number: 150
Dealer: Dealer1
Date of Listing: 5 days, 20 hours

More Info

Ever Green1
Kathmandu, Kathmandu

Discounted Price: Rs.15000.0
Price: Rs.20000.0
Accommodation Number: 100
Dealer: Dealer1
Date of Listing: 2 weeks

More Info

Booking Services
Book your desirable venue with a simple click.

Property Management
Manage your venue efficiently.

List your property
List your property and flourish your business.

Copyright © 2020 Book Venue

Figure 181: Home Page/ Landing Page.

7.5.4. About Page

The screenshot shows the 'About' page of the Book Venue website. At the top, there is a dark blue header bar with navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER', 'REGISTER AS DEALER', and 'LOGIN'. Below the header, a large green section features the title 'About Book Venue' and a subtitle 'Know more about our Application.' A breadcrumb navigation 'Home / About' is visible above a photograph of a decorated event hall. To the right of the photo, the text 'Welcome to Book Venue' and 'We Search For The Perfect Venue' is displayed, followed by a descriptive paragraph about the application's purpose. At the bottom of the page, a dark grey footer section contains the text 'View Our Featured Listings' and a 'View' button, along with the copyright notice 'Copyright © 2020 Book Venue'.

Figure 182: About Page.

7.5.5. Register Venue Page

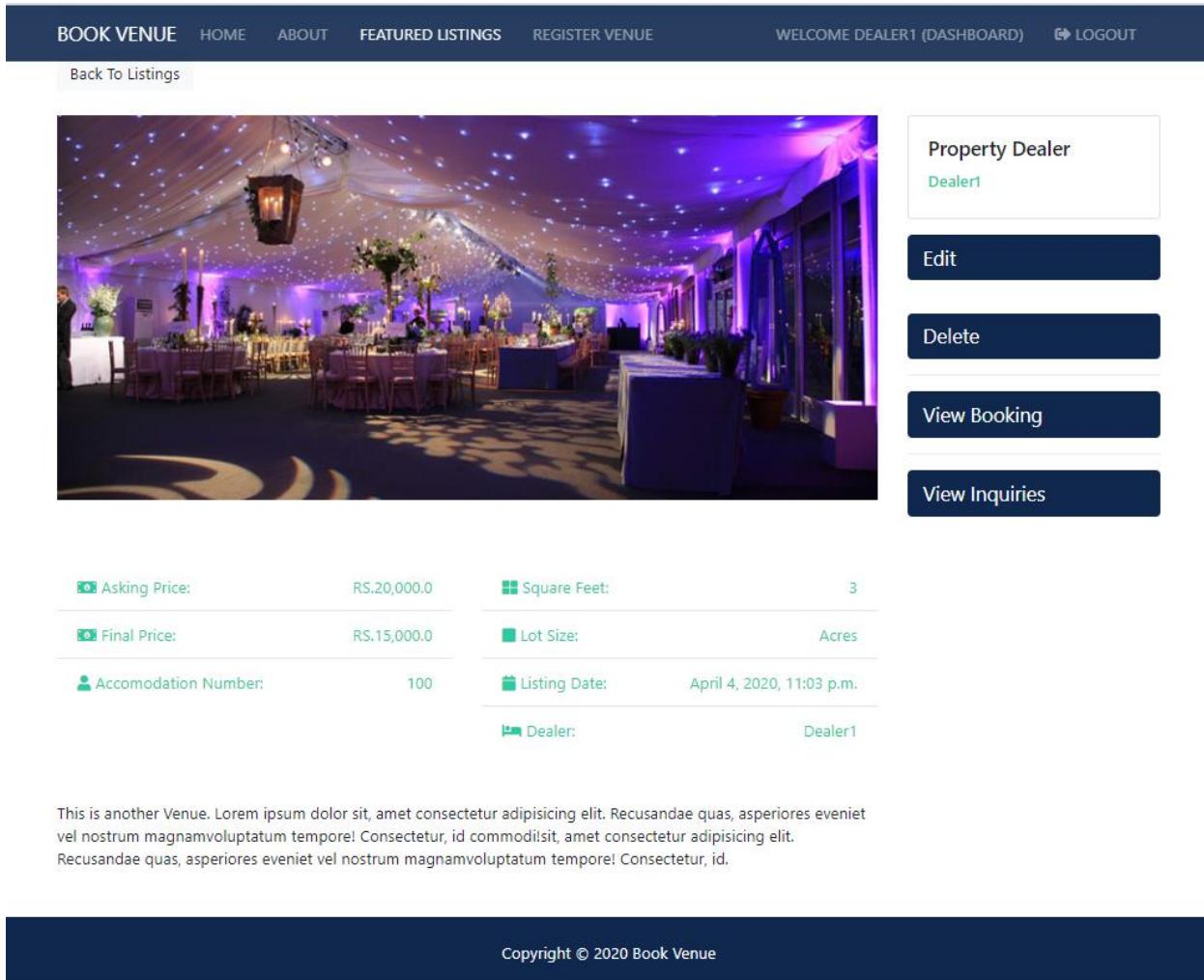
The screenshot shows a web application interface for registering a venue. At the top, there is a dark blue header bar with navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALER1 (DASHBOARD)', and 'LOGOUT'. Below the header, a breadcrumb navigation shows 'Home / Register Venue'. The main content area has a dark blue header titled 'Register Venue' with a user icon. The form consists of several input fields:

- Venue Name
- Address
- City
- State
- Description
- Price
- Discounted Price
- Accommodation Number
- Sqft

Each field is represented by a text input box.

Figure 183: Register Venue Page.

7.5.6. Venue Detail Page



The screenshot displays the 'Venue Detail Page' of a booking platform. At the top, a dark header bar contains navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALER1 (DASHBOARD)', and 'LOGOUT'. Below the header is a 'Back To Listings' link. The main content area features a large image of a well-decorated event hall with tables, chairs, and floral arrangements under a starry ceiling. To the right of the image is a sidebar titled 'Property Dealer' which lists 'Dealer1'. Below this are four dark blue buttons with white text: 'Edit', 'Delete', 'View Booking', and 'View Inquiries'. Below the image and sidebar are several data cards with icons and text: ' Asking Price: RS.20,000.0', ' Square Feet: 3', ' Final Price: RS.15,000.0', ' Lot Size: Acres', ' Accommodation Number: 100', ' Listing Date: April 4, 2020, 11:03 p.m.', and ' Dealer: Dealer1'. At the bottom of the page is a dark footer bar with the text 'Copyright © 2020 Book Venue'.

Figure 184: View Venue Details Page.

7.5.7. Edit Venue Details Page

The screenshot shows a web application interface for editing venue details. At the top, there is a dark blue header bar with navigation links: 'BOOK VENUE', 'HOME', 'ABOUT', 'FEATURED LISTINGS', 'REGISTER VENUE', 'WELCOME DEALER1 (DASHBOARD)', and 'LOGOUT'. Below the header, a breadcrumb trail shows 'Home'. The main content area has a dark blue header 'Edit' with a user icon. The form fields include:

- Title: Ever Green1
- Address: Ason
- City: Kathmandu
- State: Kathmandu
- Description: This is another Venue.
- Price: 2000.0
- Discounted price: 1500.0
- Accommodation: 100
- Sqft: 3
- Photo main: Currently: photos/2020/04/02/venue.jpg
- Change: Choose File (No file chosen)

Figure 185: Edit Venue Details Page.

7.5.8. Delete venue Page

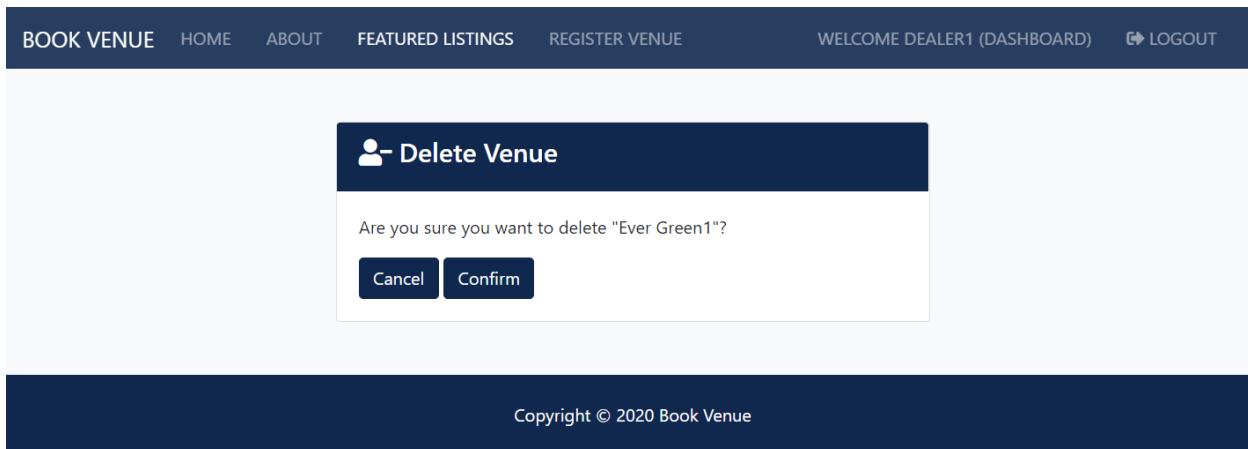


Figure 186: Delete Venue Page.

7.5.9. Send Feedback Page

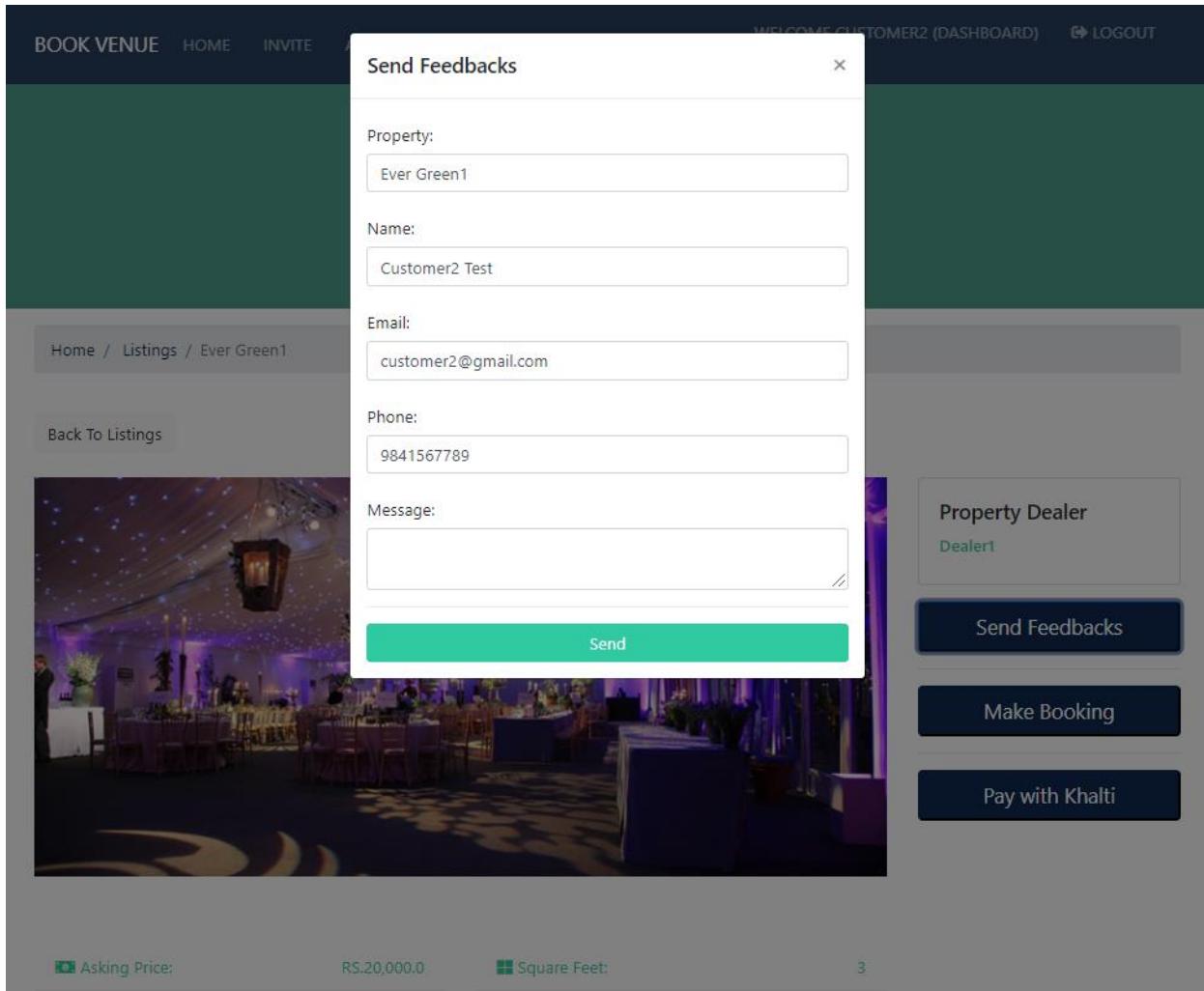


Figure 187: Book Venue Page.

7.5.10. Book Venue Page

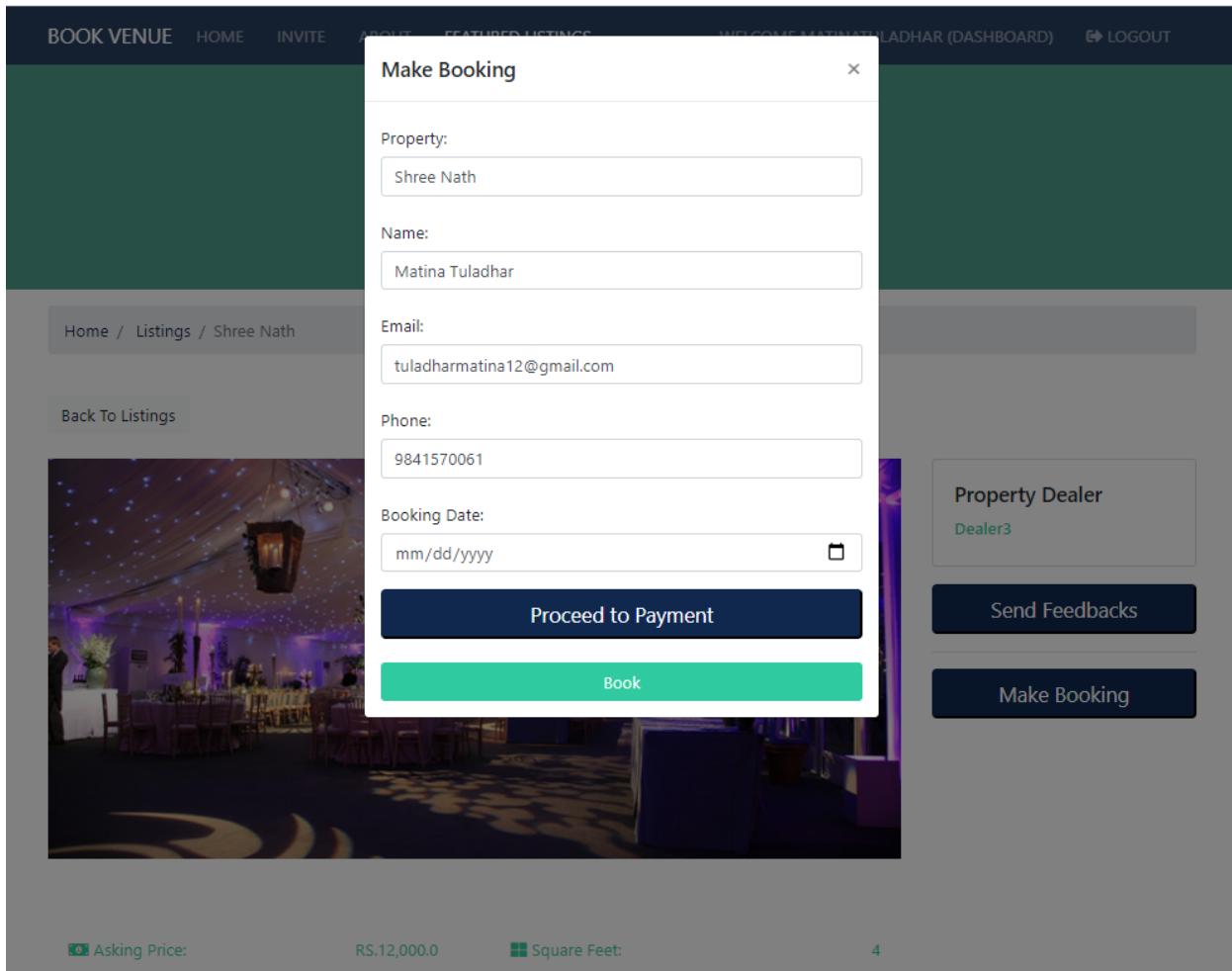


Figure 188: Book Venue Page.

7.5.11. Payment Page

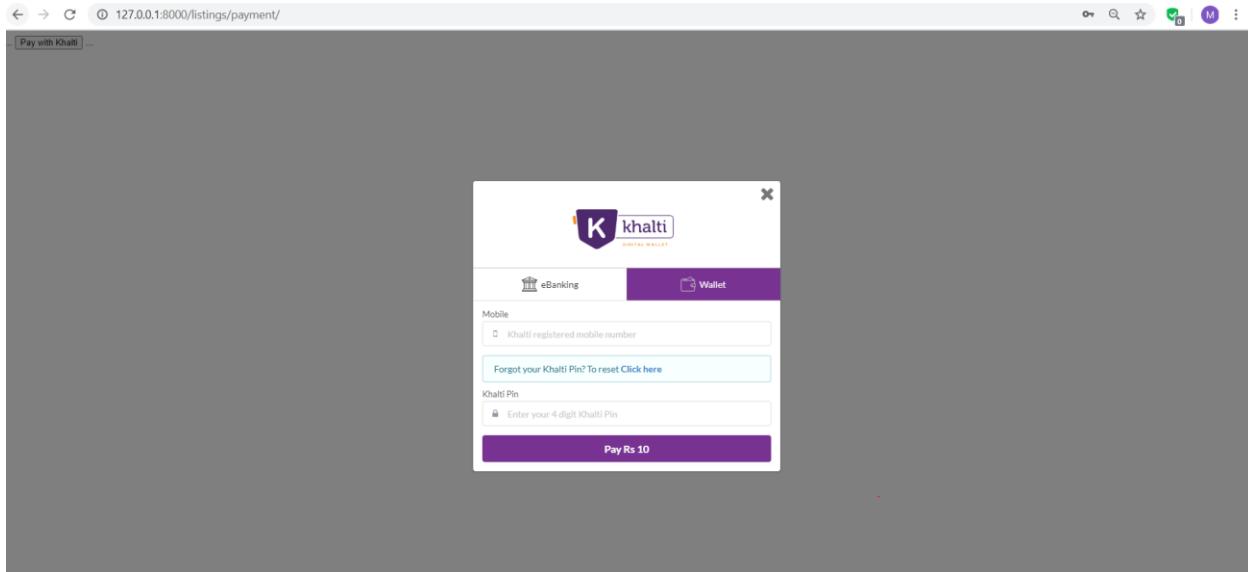


Figure 189: Payment Page.

7.5.12. Customer Booking Detail Page

BOOK VENUE	HOME	INVITE	ABOUT	FEATURED LISTINGS	WELCOME CUSTOMER2 (DASHBOARD)	LOGOUT
Booking Detail						
Venue Name	Customer Name	Customer Email	Customer Contact Number	Booked Date	Status	
Ever Valley	Customer2 Test	customer2@gmail.com	9841567789	Dec. 12, 2020	1	
Ever Valley	Customer2 Test	customer2@gmail.com	9841567789	Jan. 1, 2020	0	
Ever Green	Customer2 Test	customer2@gmail.com	9841567789	Dec. 12, 2020	1	
Ever Green	Customer2 Test	customer2@gmail.com	9841567789	Dec. 9, 2020	1	
Ever Green	Customer2 Test	customer2@gmail.com	9841567789	Jan. 2, 2020	0	

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Figure 190: Customer Booking Details.

7.5.13. Customer Page

The screenshot shows the customer dashboard for MatinaTuladhar. At the top, there's a dark blue header bar with links for 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME MATINATULADHAR (DASHBOARD)', and 'LOGOUT'. Below the header is a teal-colored main area with the title 'MatinaTuladhar Dashboard'. Underneath, a breadcrumb navigation shows 'Home / Dashboard'. A green success message box displays 'Success You are now logged in' with a close button. The main content area starts with a welcome message 'Welcome Matina' followed by a large black user icon. To the right of the icon is a table showing user details: First Name: Matina, Second Name: Tuladhar, Email Address: tuladharmatina12@gmail.com, and Contact Number: 9841570061. Below this, a section titled 'Venues you have given feedback to.' lists one venue: 'Ever Green1' with a 'View Listing' button. Another section, 'Here are the Venues that you have booked.', contains a 'View Your Booking' button. The footer is dark blue with the copyright notice 'Copyright © 2020 Book Venue'.

BOOK VENUE HOME INVITE ABOUT FEATURED LISTINGS WELCOME MATINATULADHAR (DASHBOARD) LOGOUT

MatinaTuladhar Dashboard

Home / Dashboard

Success You are now logged in

Welcome Matina

First Name: Matina
Second Name: Tuladhar
Email Address: tuladharmatina12@gmail.com
Contact Number: 9841570061

Venues you have given feedback to.

#	Property
6	Ever Green1

View Listing

Here are the Venues that you have booked.

View Your Booking

Copyright © 2020 Book Venue

Figure 191: Customer Page.

7.5.14. Customer Feedback Details Page

The screenshot shows a web application interface for a customer dashboard. At the top, there is a dark blue header bar with the following navigation links: 'BOOK VENUE', 'HOME', 'INVITE', 'ABOUT', 'FEATURED LISTINGS', 'WELCOME CUSTOMER2 (DASHBOARD)', and 'LOGOUT'. Below the header is a teal-colored banner. Underneath the banner, the main content area has a light gray background. It starts with a breadcrumb navigation: 'Home / Dashboard'. The main title is 'Welcome Customer2'. Below the title, a sub-header says 'Venues you have given feedback to.' followed by a horizontal line. A table is displayed with the following data:

#	Property	
5	Ever Green1	View Listing
4	Ever Green	View Listing
3	Venue1	View Listing
2	Ever Valley	View Listing
1	Venue	View Listing

Below the table, a message states 'Here are the Venues that you have booked.' followed by another horizontal line. A large dark blue button with the text 'View Your Booking' is centered. At the very bottom of the page, there is a dark blue footer bar with the copyright notice 'Copyright © 2020 Book Venue'.

Figure 192: Individual Customer Feedback Page.

7.5.15. View Venue Booking Details Page

Venue Name	Customer Name	Customer Email	Customer Contact Number	Booked Date	Status
Ever Green1	Customer1 Test	customer1@gmail.com	980998989	Jan. 2, 2020	1

Copyright © 2020 Book Venue

Figure 193: View Individual Venue Booking Detail.

7.5.16. View Venue Feedback Details Page

Venue Name	Customer Name	Customer Email	Customer Contact Number	Message
Ever Green1	Customer2 Test	customer2@gmail.com	9841567789	Hello this is an inquiry.

Copyright © 2020 Book Venue

Figure 194: View Individual Venue Booking Detail.

7.5.17. Admin Login Page

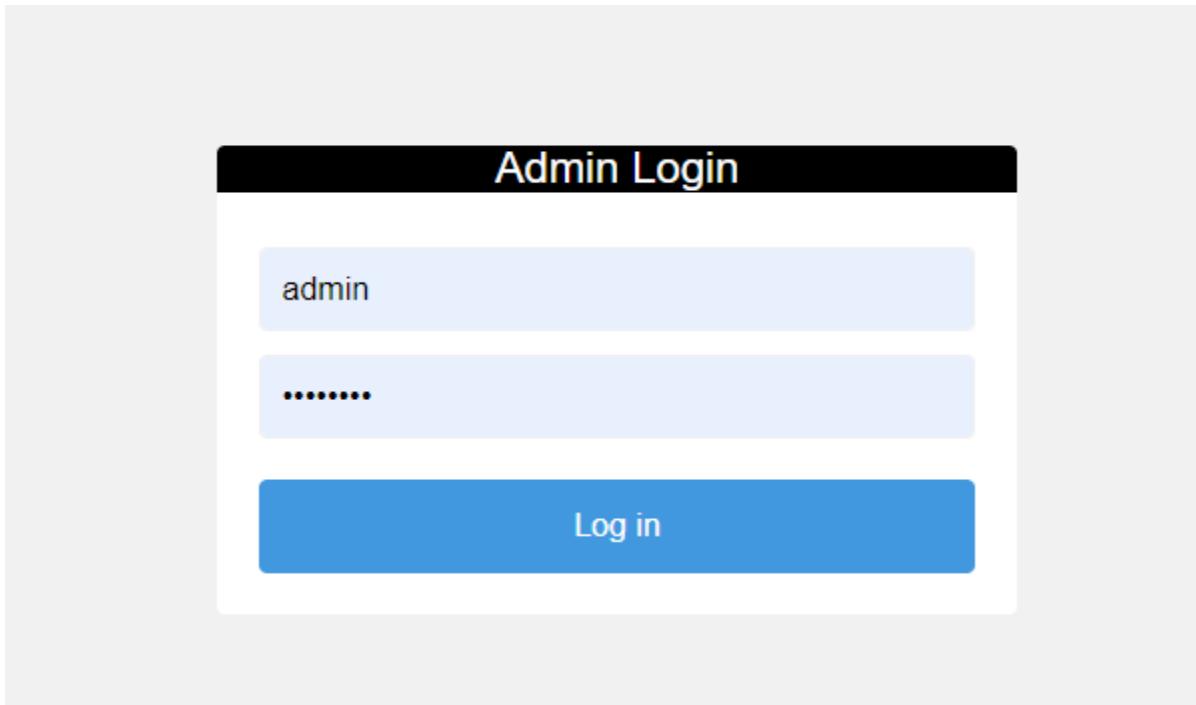


Figure 195: Admin Login Page. Admin Dashboard Page

7.5.18. Admin Dashboard Page

A screenshot of the Django admin dashboard. The top navigation bar is dark with the text "Admin Area" on the left and "Welcome, admin. View site / Change password / Log out" on the right. Below this is a horizontal menu bar with three items: "Accounts", "Background Tasks (1.2.5)", and "Listings", where "Background Tasks" is currently selected. The main content area is divided into sections: "Accounts" (with a "Users" table showing one row and a "Change" link), "Background Tasks (1.2.5)" (with tables for "Completed tasks" and "Tasks", each with "Add" and "Change" links), and "Listings" (with a "Listings" table showing one row and a "Change" link). At the bottom of the page, there are footer links for "Support", "Licence", and "Report a bug" on the left, "Copyright © 2013-2020 DjangoSult.com" and "Developed by DjangoSult.com" in the center, and "Activate Windows", "Go to Settings to activate Windows", and "Book Venue Admin" on the right.

Figure 196: Admin Dashboard.

7.5.19. Admin: Listing Page

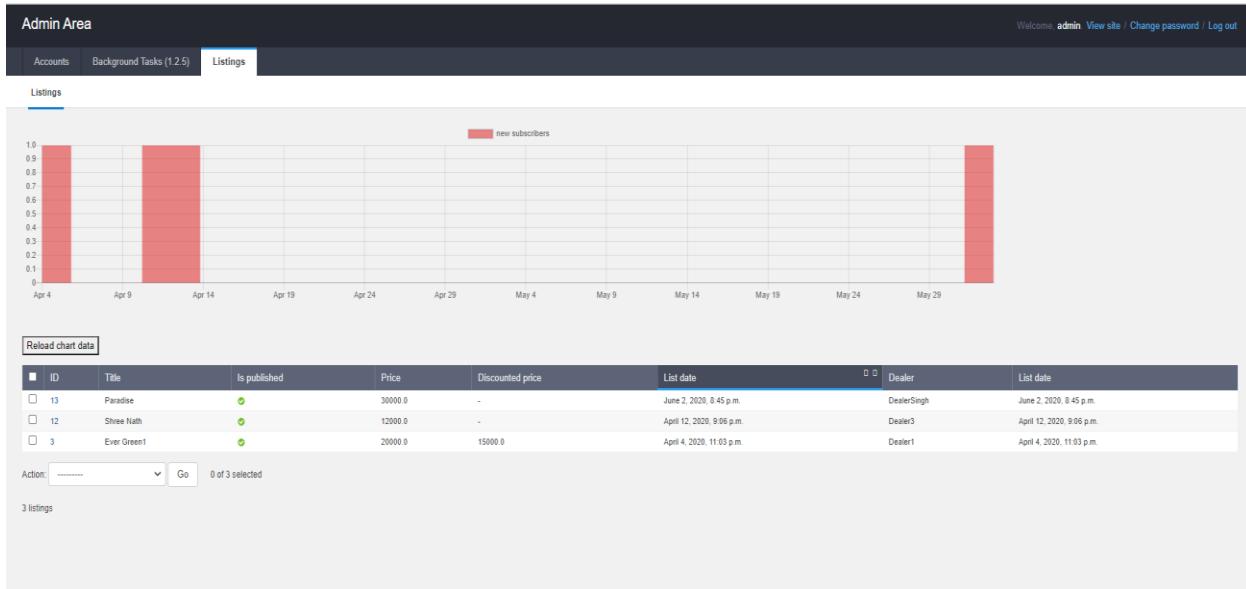


Figure 197: Admin: Listing Page.

7.5.20. Admin: Users Page

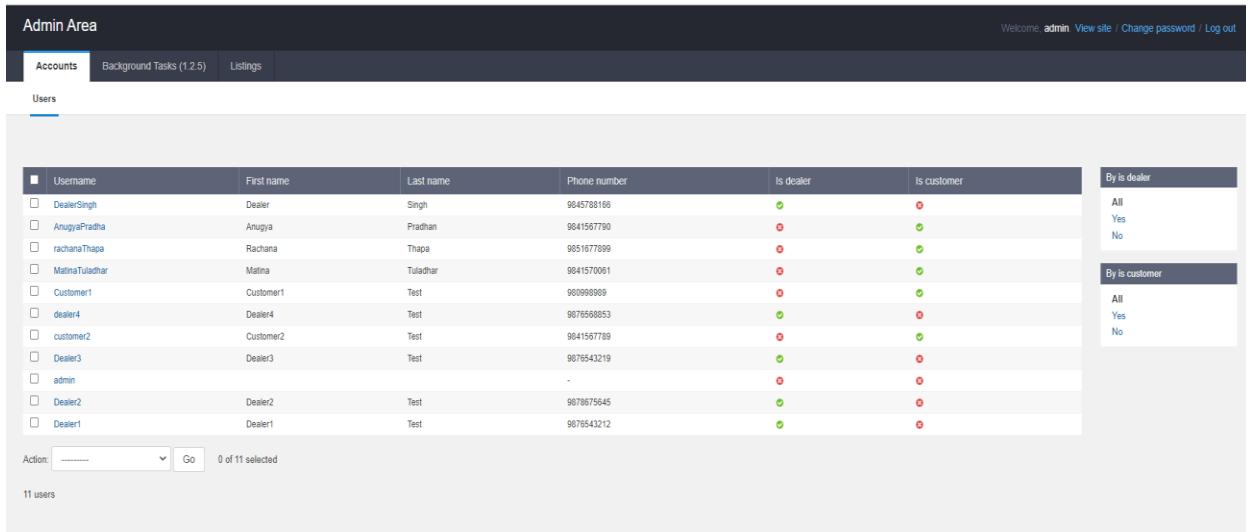


Figure 198: Admin: User Page.