

LA GRANDEE INTERNATIONAL COLLEGE

Simalchaur, Pokhara, Nepal

FINAL DEFENSE ON

VENUE MATCH

Submitted to:

La Grandee International College

Bachelor of Computer Application (BCA) Program

In partial fulfillment of the requirements for the degree of BCA under

Pokhara University

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Date (Sept-5, 2023)

ACKNOWLEDGEMENT

I express my sincere regard to my project supervisor Sunil Sapkota, for his valuable

time, guidance, encouragement, support and cooperation throughout the duration of our

project. I would sincerely like to thank BCA Department for giving me the opportunity

to work on enhancing my technical skills while undergoing this project. This project

helped in understanding the various parameters which are involved in the development

of a mobile application and the working and integration of frontend along with the

backend to create a fully functional mobile application. We would like to express our

gratitude to Pokhara University for developing a highly valuable curriculum and

enabling us to undertake this project. Furthermore, we extend our sincere appreciation

to La Grandee International College, whose assistance has been instrumental in making

our project a reality. Without their support, our project would have been unattainable.

With Regards,

Narvasha Adhikari (Registration No: 2018-1-53-0117)

Samjhana Poudel (Registration No: 2018-1-53-0126)

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Student's Declaration

We hereby declare that we are the only authors of this work and that no sources other than the listed here have been used in this work.

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Supervisor's Declaration

I hereby recommend that this project entitled "VENUE MATCH" is done under my supervision by Narvasha Adhikari, Samjhana Poudel during 8th semester in partial fulfillment of the requirement for the degree of Bachelor of Computer Application (BCA) under Pokhara University is completed to my satisfaction and be processed for final evaluation.

Sunil Sapkota	

Letter of Approval

We certify that we have examined this report VENUE MATCH ", and are satisfied with							
the proposal defense. In our opinion it is satisfactory in the scope and qualify as project							
in partial fulfillment of the requirements for the degree of BCA under Pokhara							
University.							

Project Supervisor External Invigilator Principal
Er. Sunil Sapkota Er. Kiran K.C

Abstract

This report is submitted to the Department of Computer Application at LA Grandee International College as part of the BCA 8th Semester Project. The project, titled "Venue Match App", it serves as an introductory overview of the Venue Match App project, showcasing its potential to revolutionize the event planning and venue selection process.

In a world where hosting events and gatherings is an integral part of human social life, the demand for the perfect venue has never been greater. The Venue Match App aims to address this fundamental need by leveraging advanced technology to simplify the process of discovering, evaluating, and booking event venues.

The primary objective of this project is to develop a user-centric application that enhances the event planning routine. Users, whether individuals or businesses, will have the ability to create accounts, explore an extensive database of venues, and conveniently select the ideal space for their specific requirements. The Venue Match App will serve as a comprehensive repository of venues, offering real-time availability data and detailed venue profile.

The Venue Match App offers venues categorized by event types such as birthdays, engagements, weddings, corporate meetings, and more. This categorization simplifies the search process, allowing users to quickly find venues tailored to their specific event needs.

In addition to simplifying venue selection, the Venue Match App also streamlines the payment process, allowing users to securely make payments through the app, further enhancing the convenience of event planning.

The Venue Match App is poised to make a lasting impact on the event planning industry, much like the way technological advancements have transformed the other business. By offering an efficient and user-friendly solution for venue selection, this project seeks to empower event planners and organizers while ensuring that every event held is in the perfect venue, ultimately enhancing the overall event experience.

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List of abbreviation

DFD- Data Flow Diagram

MySQL- My Structured Query Language

ER- Entity Relationship

1. Introduction

In the fast-paced world of event planning, finding the perfect venue can be a daunting task. Event organizers often struggle with limited options, lack of information, and time-consuming coordination. To address these challenges and revolutionize the way venues are discovered and booked, we present our innovative Venue Match App.

The Venue Match App is a comprehensive platform designed to simplify the process of finding, comparing, and booking venues for various events. It provides event organizers with a user friendly interface and a vast database of venues, complete with detailed information on availability, capacity, amenities, pricing, and location.

Our app aims to enhance the user experience by offering a personalized journey. With features such as recommendations, saved searches, and customized notifications, users can easily discover venues that align with their specific needs and preferences. Whether it's a corporate conference, wedding reception, or social gathering, the Venue Planner App streamlines the entire venue selection process.

Not only does the app benefit event organizers, but it also empowers venue managers. Our platform includes tools for efficient venue management, such as automated booking confirmation, availability calendars, and online payment processing. This enables venue managers to streamline operations, optimize bookings, and provide a seamless experience for event planners.

Furthermore, the Venue Match App boosts venue exposure by integrating social media platforms, implementing search engine optimization techniques, and offering targeted advertising options. The app provides analytics and insights on venue performance, allowing venues to make data-driven decisions and optimize their listings for maximum exposure.

We understand the importance of fostering positive relationships between event planners and venues. Our app facilitates communication channels, rating and review systems, and feedback mechanisms to ensure transparency, trust, and collaboration.

In conclusion, the Venue Planner App revolutionizes the venue selection process by offering a comprehensive platform for event organizers and venue managers. With its user-friendly interface, personalized recommendations, efficient venue management tools, increased exposure opportunities, and emphasis on positive relationships, our app is set to become the goto resource for seamless and successful event planning.

2. Problem Statement

The current state of venue applications presents several challenges and limitations

- Selecting Venues manually is a complex and time-consuming process.
- Tracking guest lists and managing budgets can be difficult.
- Coordinating with vendors and ensuring seamless communication is a challenge.
- Venues may struggle to reach a wider audience and efficiently manage bookings.
- There is a need for a comprehensive and user-friendly event planner app.
- The app should simplify the planning process and enhance the user experience.
- There is a need for a platform that fosters positive relationships between event planners and venues.

3. Objectives

Venue match app can vary depending on the specific goals of the project and the target audience. However, here are some common objectives that we are focusing while developing a venue match app:

- 1. Simplify venue booking with detailed venue information and availability.
- 2. Enhance user experience with easy venue searching and booking.
- 3. Improve venue management with efficient tools for booking, calendars, and integrating payment methods
- 4. Provide value to event planners with tools for budget, guest, and vendor management.
- 5. Foster positive relationships with rating systems and communication channels.
- 6. Provide detailed venue information and overviews to help users make informed decisions.

4.Background Study

Background study is an essential step in understanding the market, user needs, and potential competitors. Here's a structured approach that we conducted a study for:

1. Market Research:

- Market Size and Growth: Determine the size and growth potential of the venue management industry. Look for statistics and trends that highlight the demand for such apps and websites.
- Target Audience: Identified our target audience within the venue management sector. This include event planners, venue owners, or even individual users looking to book venues.
- Competitor Analysis: Research existing venue management apps. Analyze their features, user reviews, pricing models, and market share. Identify gaps in their offerings that your app can fill.
- Regulations and Compliance: Understand any legal or regulatory requirements
 related to venue management, such as permits, safety standards, or licensing.

2. User Research:

- User personality: Create detailed user personality representing different segments of your target audience. Understand their pain points, needs, and preferences.
- Surveys and Interviews: Conducted surveys or interviews with potential users to gather insights into their challenges and expectations when it comes to venue management.
- o User Journeys: Mapped out the typical user journeys involved in venue management, from searching for a venue to booking and managing events.

3. Technology and Infrastructure:

 App Platforms: Decide whether our app will be available on iOS, Android, or both. Consider whether it will also have a web version. Technical Feasibility: Assess the technical feasibility of building the app, including the required infrastructure, development tools, and potential integrations with other systems.

4. Feature Set:

- Core Features: Defined the essential features our app must have, such as venue search, booking, scheduling, payment processing, and event management.
- Differentiators: Identified unique features or innovations that will set your app apart from competitors. This could include AI-driven recommendations, realtime availability updates, or seamless communication tools.

5. Monetization Strategy:

- o Revenue Models: Explored different revenue models
- Pricing Strategy: Determine the pricing structure that aligns with your target audience's willingness to pay and the value your app provides.

6. Timeline and Milestones:

- o Project Timeline: Created a timeline that outlined key development milestones.
- Development Phases: Divide the app development process into phases, such as design, development, testing, and deployment.

7. Risk Assessment:

o Identify Risks: Listed potential risks and challenges that could affect the development and success of our app. Develop mitigation strategies for each.

8. Feedback and Iteration:

 Planned for collecting user feedback and incorporating it into future updates to continuously improve the app.

By conducting a comprehensive background study, we are prepared to develop a venue management app that meets the needs of your target audience and stands out in the market.

5. Methodology

For the development of VENUE MATCH application, we use the iterative model. Iterative model is one of the popular models for development of projects. Iterative model starts with a simple implementation of a subset of the software requirements and iteratively enhances the evolving versions until the full system in implemented.

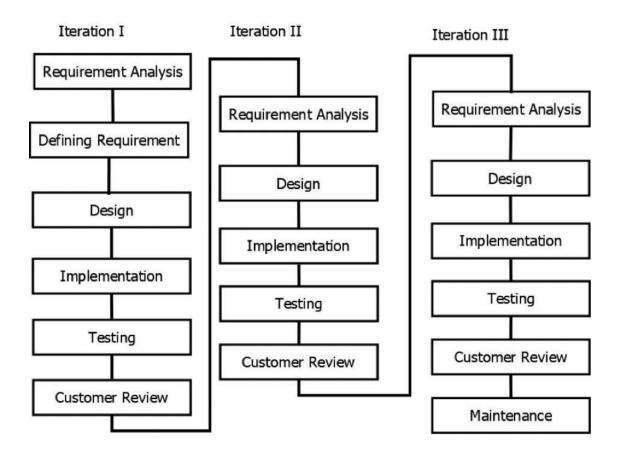


FIGURE 1: ITERATION MODEL

5.1 Requirement Analysis

To successfully develop a venue match app, conducting a comprehensive requirement analysis is paramount for understanding the needs and expectations of our target audience. We have gathered valuable insights from various operating venues in Pokhara, such as Pokhara Grandee, who emphasized the significance of customer satisfaction. Their recommendations underscored the importance of implementing a user-friendly interface to quickly engage users. Effective requirements analysis is pivotal in determining the success or failure of a software project. These requirements must be documented, actionable, measurable, testable, traceable, and directly aligned with identified business needs or opportunities, detailing them to a level suitable for system design. In every project, gathering essential requirements from diverse sources is crucial to align our efforts with project objectives. Our research has led us to the conclusion that developing a venue match app necessitates identifying core functionalities and features. These encompass defining user roles, implementing robust user authentication and authorization mechanisms, integrating location-based services for venue search, ensuring an intuitive interface for venue comparison, enabling realtime communication and booking capabilities, ensuring robust data security and privacy measures, and incorporating feedback mechanisms for user reviews and ratings.

5.2. Problem Analysis:

The problem analysis for a venue match application reveals several key areas of concern. These include limited venue options, inaccurate or outdated information, insufficient filtering and search options, a lack of user reviews and ratings, complex booking processes, limited integration with other services, and technical glitches and performance issues. Understanding and addressing these challenges will be crucial in developing a successful and user-friendly app that provides a seamless experience for users looking to find the perfect venue for their events or occasions. We also analyzed them and found that, while choosing venues many people prefer to use manual way of booking venues because they are not familiar with the advanced system of VENUE MATCH system.

5.3 Verification and Validation:

In the development of the Venue Match App, verification and validation were pivotal processes to ensure that the software system met its specifications and fulfilled its intended purpose. As part of our validation process, we implemented measures to verify the authenticity of users and validate the data entered into the system. This meticulous verification and validation process were crucial in maintaining the integrity of our database, ensuring that only genuine users interacted with the platform and that the data remained accurate and reliable.

5.4 Development Plan:

The development plan for the Venue Match App was a collaborative effort within our team. We addressed critical questions, such as designing the project to be user-friendly and accommodating to a wide range of users. We also considered time constraints, recognizing the importance of delivering the project within specified timelines. Our development plan encompassed every aspect of the project, ensuring that we could provide users with a seamless, efficient, and timely venue selection experience.

5.5 Testing:

Testing played a crucial role in the development of the Venue Match App, following the principles of the spiral model. Throughout the development cycle, we conducted multiple rounds of manual testing to identify and rectify errors. Online communities such as Stack Overflow and Quora served as valuable resources for troubleshooting and resolving issues promptly. Our commitment to software testing was grounded in the goal of delivering a defect-free application that consistently met users' expectations. We utilized various testing methodologies, tailoring our approach to the specific requirements of the project.

5.6 Documentation:

Documentation emerged as a vital aspect of the Venue Match App project. Every aspect of our development process was meticulously recorded in softcopy format. This comprehensive documentation not only served as a reference point but also facilitated a better understanding of the program's flow. It will prove invaluable for future enhancements and additional feature integrations. In cases where unforeseen problems

arise during further development, this documentation will serve as a valuable resource, enabling us to maintain and improve the application's interactivity effectively.

6. Requirement document

6.1. Tools and software requirements

Flutter SDK: This open-source framework, developed by Google, is essential for building cross-platform mobile apps. Install the Flutter SDK, which includes the Flutter framework, Dart programming language, and command-line tools.

Integrated Development Environment (IDE): Several IDE options are available for Flutter app development. Popular choices include: Visual Studio Code (VS Code): A lightweight and free IDE with excellent Flutter support through extensions. Android Studio: A full-featured IDE developed by Google, which includes built-in support for Flutter.

Dart programming language: Flutter apps are built using the Dart programming language.

State management: Effective state management is vital for a smooth ecommerce experience. Flutter offers various options like Provider, River pod, Redux, or Mob for handling app state.

UI/UX design tools: You can design your app's user interface (UI) and user experience (UX) using tools like Figma, which allows collaborative design work among team members.

Version control: Employing version control is a good practice for tracking code changes and collaborating with other developers. GitHub, GitLab, or Bitbucket are platforms that can host your code repositories.

Third-party packages: Flutter boasts a vast ecosystem of third-party packages that provide ready-made solutions for various app functionalities.

6.2. Functional Requirements

- 1. User Registration and Authentication: Enable users to register and create accounts.
- Implement secure authentication methods like email/password, social media login, or OAuth. Provide password reset and account recovery options.

- 2. Venue Catalog Display a list of products with details such as title, description, price, and images. Implement categories and filters to help users browse and search for specific products. Allow users to view product details and read reviews.
- 3. Booking Management: Provide users with booking history. Allow users to view and manage their booking, including cancellation.
- 4. User Profile and Settings:- Enable users to view and update their profile information.
- 5. Backend Integration: Connect the app with a backend system to handle data storage, product management, order processing, and other business logic.

6.3 Requirement Matrix:

SN	requirement, modules, system and features	Description for the modules	Priority (high, medium, low)	
1.	Login and security system	Login can be done on the basis of their levels	high	
2.	Data entry	Data entry of the major details of the users	high	
3.	Venue Detail	The venue owner and admin can place the venue details	high	
4.	Checking of Booked and un booked venues	User must proceed during testing of system	high	
5.	Performance Checkout	System must be able to satisfy the customer in user friendly manner	high	
6.	Booked venue	User must be simple able to retrieve the booked venue	high	

Table 1: Requirement Matrix

7. System Analysis and Design:

7.1 ER-Diagram

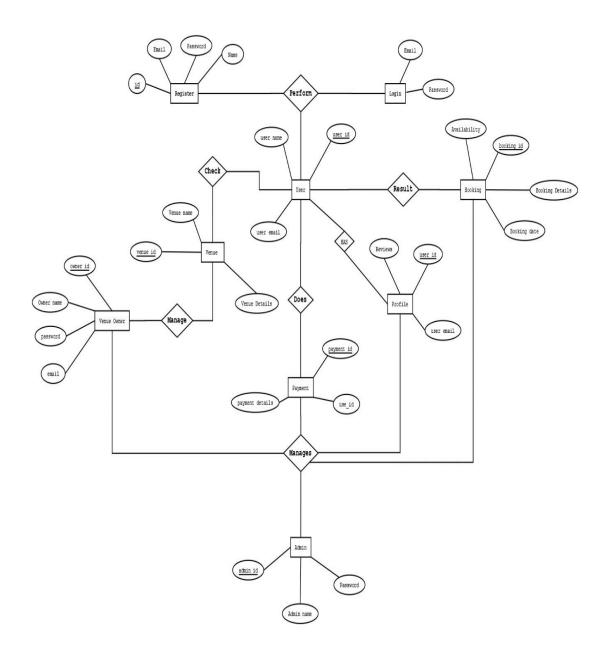


FIGURE 2:ER-DIAGRAM

7.2 Class-Diagram

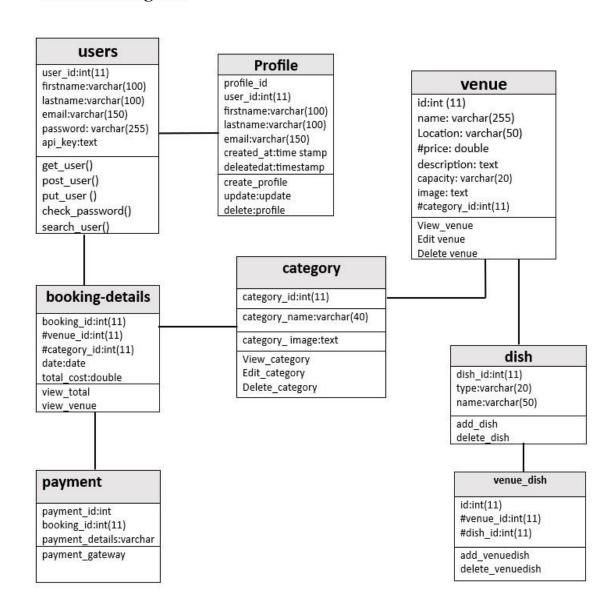


FIGURE 3 CLASS-DIAGRAM

7.3 DFD (Data Flow Diagram)

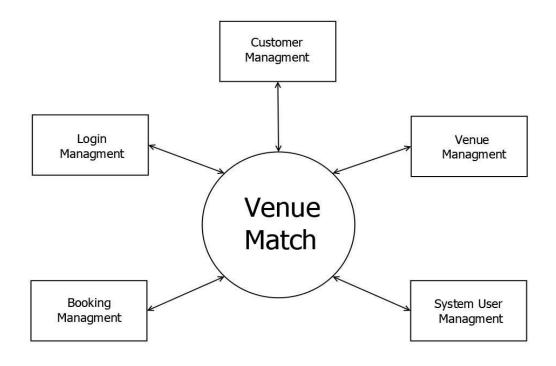


FIGURE 4: DFD LEVEL-0

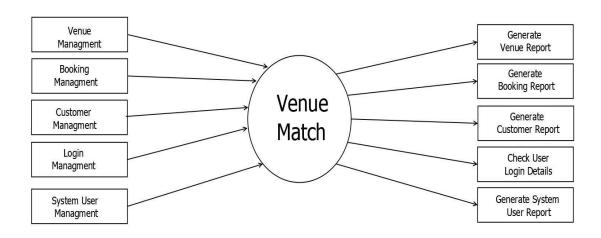


FIGURE 5: DFD LEVEL 1

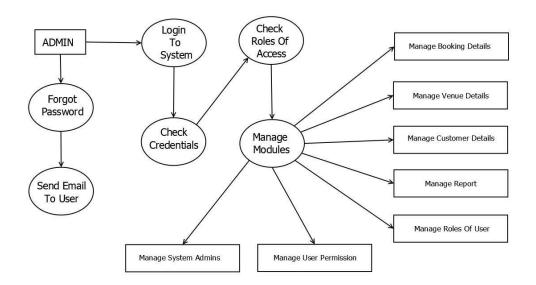


FIGURE 6: DFD LEVEL 2

8. Development

The Venue Match App development commenced with the adoption of the "Iterative Model". The Iterative Model is a software development approach that focuses on incremental and iterative progress throughout a project's lifecycle. In this model, the development process is divided into small cycles or iterations, each of which involves a subset of the project's requirements. The model begins with an initial planning phase where the project's objectives, requirements, and scope are defined. Following this, the first iteration is executed, typically involving design, development, and testing activities.

What sets the Iterative Model apart is that it doesn't attempt to define all project requirements upfront. Instead, it allows for flexibility, enabling developers and stakeholders to adapt and refine requirements as the project progresses. Each iteration results in a partially completed version of the software, and feedback from users and stakeholders is gathered and incorporated into the subsequent iterations.

This iterative process continues until the software reaches a state where it meets the desired level of functionality, quality, and user satisfaction. The advantage of the Iterative Model lies in its ability to accommodate changing requirements, respond to user feedback, and reduce the risk of late-stage project failures by addressing issues early in the development process.

As we know the process of planning, organizing, coordinating, and controlling resources to achieve specific goals is also referred to as development. Software engineers have created more sophisticated tools known as IDE (Integrated Development Environment) to accommodate the evolution of software development. We have used Visual studio IDE which has features that integrate flawlessly with flutter frameworks. Likewise, for effective and worthwhile documentation, many inhouse office products like Ms-excel, MS-word, and PowerPoint were used. For the charts and diagrams, DIA tool is used. PHP is a backend tools used in the system. We have used Discord, Git and Microsoft Teams for our collaborative platform to discuss with the problems and task division among the members with our project supervision among the team members in teamwork manner. Our system must store information about the

booking, venue details, Reservations, and so on. As a result, we've identified the major tables that will be implemented on the chosen RDBMS. So here is the database schema for our project "Venue Match".

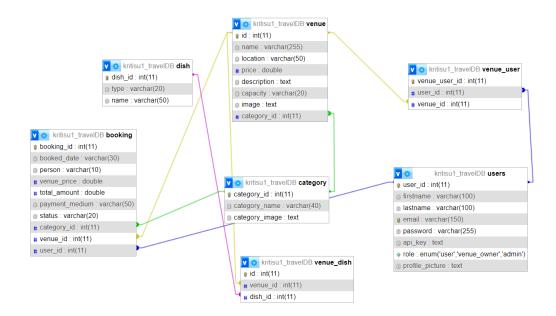


FIGURE 7: DATABASE SCHEME

The illustrated database visually represents the organization and relationships among the tables within the Venue Match database. This database schema serves as the structured, language-supported description of the database's architecture within a Database Management System (DBMS). The figure above provides a comprehensive list of tables and their associated entities involved in the development of Venue Match.

Specifically, the depicted database schema outlines the organization and interconnections of tables within a database named "kritisu1_travelDB." Notable tables within the Venue Match database include "kritisu1_travelDB_user," "kritisu1_travelDB_booking," "kritisu1_travelDB_venue_user," among others. These tables are integral components of the system.

To establish relationships and maintain data integrity, numerous foreign keys are employed throughout the database. A foreign key is a pivotal database constraint that establishes a connection between two tables within a relational database. This constraint

actively enforces referential integrity by guaranteeing that the values within a column of one table correspond to the values within a column of another table.

In essence, foreign keys play a vital role in ensuring the coherence and reliability of data across different tables, thus facilitating robust relationships and enabling efficient data retrieval within the Venue Match database.

S. N	Name of student	Work Assigned
1.	Narvasha Adhikari	 Documentation
		 Proposal Planning
		 Problem Identification
		o Design (system design)
		 Coding (mostly website and some
		parts of mobile app)
		o Testing
	G 11 D 11	P
2.	Samjhana Poudel	 Documentation
		 Requirement Analysis
		 Design (support in system design)
		o Coding (mostly mobile app and some
		parts of website)
		o Backend
		o Testing

Table 2: Task Division

9. TESTING

A test case comprises a set of conditions or variables employed by a tester to ascertain

if a system being evaluated fulfills prescribed requirements or functions correctly. The

process of creating test cases can also aid in revealing potential shortcomings within an

application's requirements or design. The Software Testing Life Cycle (STLC) serves

as a testing methodology that contributes to the attainment of software quality standards

with greater efficiency.

Throughout the entirety of the design and development stages, we have executed unit

tests on each individual component, confirming their proper functionality before their

integration into the larger system.

Given that we adopted the iterative model for our project's development. The iterative

model testing process is an integral component of the iterative development

methodology, where software is built and refined incrementally through a series of

repetitive cycles. These cycles involve designing, developing, and testing small

portions of the software in each iteration. The testing process within the iterative model

is dynamic and evolves over the course of multiple iterations.

9.1. Test cases

Test Case -No.1

Test Case Id: TC001, TC002, TC003, TC004, TC005, TC006

Test priority (low/medium/high): med

Module name: Login module of Venue Match

Test title: verification of user login

Description: test the login page for valid entry

Test executed by: Narvasha Adhikari

Test reviewed by: Kreeti Subedi

Pre-conditions: user has valid username and password

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Test Steps: Navigate to the login panel in the project's executable file. Enter random characters, zero or null values, capitalized strings, functions inside of functions, and then check to see if the page redirects to the appropriate section.

Ste	Test	Test	Test	Expected	Test data	Actual	Status
p	case	cases	steps	results		result	(Pass/F
	id						ail)
1	TC0	verificat	Navigat	System	User=	User is	pass
	01	ion	e	displays	narvasha@gmai	navigat	
			to login	homepag	<u>1.com</u>	ed to	
			page	e	Password=	dashbo	
					narvasha@123	ard	
						with	
						success	
						ful	
						login	
2	TC0	Valid	Click	Displays	User=	Error in	pass
	02	usernam	on login	error	user@gmail.co	success	
		e wrong	button	message	<u>m</u>	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	user@123		
			userna				
			me and				
			passwor				
			d				
3	TC0	Wrong	Click	Displays	User=	Error in	pass
	03	usernam	on login	error	user@gmail.co	success	
		e valid	button	message	<u>m</u>	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	user@123		
		_	userna				

			me and				
			passwor				
			d				
4	TC0	Button	Click	Successf	Navigated to	success	pass
	04	click test	on login	ul click	welcome screen		
			button	and			
				further			
				result			
4	TC0	Verify	Try to	error	Click on login	error	pass
	05	login	login				
		without	without				
		registrat	providi				
		ion test	ng				
			necessa				
			ry				
			credenti				
			als				
4	TC0	Forgot	Provide	Authenti	User=empty	Retriev	pass
	06	passwor	valid	cate the	Password=empt	e for	
		d test	user	user and	у	user	
			name	change		account	
			and	the new		S	
			passwor	password			
			d before				
			clicking				
			forgot				
			passwor				
			d				

Table 3: Test case for verification of user login

Test Case -No.2

Test Case Id: TC001, TC002, TC003, TC004, TC005, TC006

Test priority (low/medium/high): med

Module name: Login module of Venue Match

Test title: verification of admin login on website

Description: test the login page for valid entry

Test executed by: Narvasha Adhikari

Test reviewed by: Kreeti Subedi

Pre-conditions: user has valid username and password

Test Steps: Navigate to the login panel in the project's executable file. Enter random characters, zero or null values, capitalized strings, functions inside of functions, and then check to see if the page redirects to the appropriate section.

Ste	Test	Test	Test	Expected	Test data	Actual	Status
p	case	cases	steps	results		result	(Pass/F
	id						ail)
1	TC0	verificati	Navigat	System	User=	User is	pass
	01	on	e	displays	admin@gmail.	navigat	
			to login	homepag	com	ed to	
			page	e	Password=	dashbo	
					admin@123	ard with	
						success	
						ful	
						login	
2	TC0	Valid	Click on	Displays	User=	Error in	pass
	02	usernam	login	error	admin@gmail.	success	
		e wrong	button	message	com	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	admin@123		

			usernam				
			e and				
			passwor				
			d				
3	TC0	Wrong	Click on	Displays	User=	Error in	pass
	03	usernam	login	error	admin@gmail.	success	
		e valid	button	message	com	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	admin@123		
			usernam				
			e and				
			passwor				
			d				
4	TC0	Button	Click on	Successfu	Navigated to	success	pass
	04	click test	login	1 click	dashboard		
			button	and			
				further			
				result			
4	TC0	Verify	Try to	error	Click on login	error	pass
	05	login	login				
		without	without				
		registrati	providin				
		on test	g				
			necessar				
			у				
			credenti				
			als				
4	TC0	Forgot	Provide	Authentic	User=empty	Retriev	pass
	06	passwor	valid	ate the	Password=em	e for	
		d test	user	user and	pty	user	
			name	change			

password password s	
d before	
clicking	
forgot	
passwor	
d	

Table 4: Test case for verification of admin login

Test Case -No.3

Test Case Id: TC001, TC002, TC003, TC004, TC005, TC006

Test priority (low/medium/high): med

Module name: Login module of Venue Match

Test title: verification of venue owner login on website

Description: test the login page for valid entry

Test executed by: Narvasha Adhikari

Test reviewed by: Kreeti Subedi

Pre-conditions: user has valid username and password

Test Steps: Navigate to the login panel in the project's executable file. Enter random characters, zero or null values, capitalized strings, functions inside of functions, and then check to see if the page redirects to the appropriate section.

Ste	Test	Test	Test	Expected	Test data	Actual	Status
p	case	cases	steps	results		result	(Pass/F
	id						ail)

1	TC0	verificati	Navigat	System	User=	User is	pass
	01	on	e	displays	owner@gmail.	navigat	
			to login	dashboar	com	ed to	
			page	d	Password=	dashbo	
					owner@123	ard with	
						success	
						ful	
						login	
2	TC0	Valid	Click on	Displays	User=	Error in	pass
	02	usernam	login	error	owner@gmail.	success	
		e wrong	button	message	com	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	owner@123		
			usernam				
			e and				
			passwor				
			d				
3	TC0	Wrong	Click on	Displays	User=	Error in	pass
	03	usernam	login	error	owner@gmail.	success	
		e valid	button	message	com	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	owner@123		
			usernam				
			e and				
			passwor				
			d				
4	TC0	Button	Click on	Successfu	Navigated to	success	pass
	04	click test	login	1 click	dashboard		
			button	and			
				further			
				result			
			button	further			

4	TC0	Verify	Try to	error	Click on login	error	pass
	05	login	login				
		without	without				
		registrati	providin				
		on test	g				
			necessar				
			у				
			credenti				
			als				
4	TC0	Forgot	Provide	Authentic	User=empty	Retriev	pass
	06	passwor	valid	ate the	Password=em	e for	
		d test	user	user and	pty	user	
			name	change		account	
			and	the new		S	
			passwor	password			
			d before				
			clicking				
			forgot				
			passwor				
		I	i	1	1	1	1
			d				

Table 5: Test case for verification of venue owner login

Test Case -No.4
Test Case Id: TC001, TC002, TC003, TC004, TC005, TC006
Test priority (low/medium/high): med
Module name: Registration
Test title: test of registration
Description : registration of new user
Test executed by: Narvasha Adhikari

Test reviewed by: Kreeti Subedi

Pre-conditions: user has valid username and password; email id must not be used before registration to the system i.e., is unique email id for each user

Test Steps: click on register button and fill with correct data

Ste	Test	Test	Test	Expected	Test data	Actual	Status
p	case	cases	steps	results		result	(Pass/F
	id						ail)
1	TC0	Registrat	Click	All the	email=	As	pass
	01	ion of	on	required	narvasha@gmai	expecte	
		new user	register	fields are	<u>1.com</u>	d,	
			button	filled and	Password=		
			and fill	processe	narvasha@123		
			fields of	d to	Contact:		
			forms	verificati	9806669990		
			i.e.	on of	Address:		
			email id	details			
			contact		Lakeside,		
			number,		Pokhara		
			address				
2	TC0	Valid	Click	Displays	email=	Error in	pass
	02	usernam	on login	error	narvasha@gmai	success	
		e wrong	button	message	<u>1.com</u>	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	narvasha@123		
			userna		Contact:		
			me and		9806669990		
			passwor				
			d		Address:		
L		I				l	

					Lakeside,		
					Pokhara		
3	TC0	Wrong	Click	Displays	User=	Error in	nogg
3		Wrong					pass
	03	usernam	on login	error	owner@gmail.c	success	
		e valid	button	message	<u>om</u>	ful	
		passwor	enter	login	Password=	login	
		d	valid	failed	owner@123		
			userna				
			me and				
			passwor				
			d				
4	TC0	Button	Click	Successf	Navigated to	success	pass
	04	click test	on login	ul click	dashboard		
			button	and			
				further			
				result			
4	TC0	Verify	Try to	error	Click on login	error	pass
	05	login	login				
		without	without				
		registrati	providi				
		on test	ng				
			necessa				
			ry				
			credenti				
			als				
4	TC0	Forgot	Provide	Authenti	User=empty	Retriev	pass
	06	passwor	valid	cate the	Password=empt	e for	
		d test	user	user and	у	user	
			name	change	-		
			and				

passwor	the new	account	
d before	password	S	
clicking			
forgot			
passwor			
d			

Table 6: Test case for verification of registration

Test case No-5

Test case ID – TC001, TC002

Test Priority (Low/Medium/High): Medium

Module Name: Booking venue

Test Title: Booking testing

Description: User successfully books Venue A, is able to select their preferred date and time for the test, reviews the booking details, confirms the booking, and ensures that the confirmation is accurate.

Test Executed by: Samjhana Poudel

Test Reviewed by: Suman Poudel

Pre-condition: User must be logged in.

Test Steps: Select the desired venue and navigate to booking screen and select date,

total guests

Step 1	Test Case	Test Cases	Test	Expected	Test	Actual	Status
	Id		Steps	Results	Data	Results	(Pass/Fail)
1	TC001	User Should be logged in	Select the desired venue	Navigate to booking screen	Venue id Category id	As expected	Pass

			Click on book now				
2	TC002	User should navigate to the booking screen	User should select the date and total guests	Display the total details and total amount for booking venue	Total Amount	As expected	Pass
3	TC003	User should navigate to payment screen	Click on book now	Navigate to payment screen		As expected	Pass

Table 7: Test case for booking venue

est	case	No-6

Test case ID – TC001

Test Priority (Low/Medium/High): Medium

Module Name: Payment integration

Test Title: Payment testing

Description: A user should have the capability to successfully initiate a payment and successfully finalize the booking procedure.

Test Executed by: Samjhana Poudel

Test Reviewed by: Suman Poudel

Pre-condition: The user needs to have an active login session, choose their preferred venue, and complete all the necessary information on the booking screen.

Step	Test	Test	Test	Expected	Test Data	Actual	Status
1	Case Id	Cases	Steps	Results		Results	(Pass/Fail)
1	TC001	Payment process	Navigate to payment page. Enter user's payment information. Click on "Pay Now" button.	Venue booked	Phone no and password	As expected	Pass

Table 8: Test case for payment

10. Time schedule

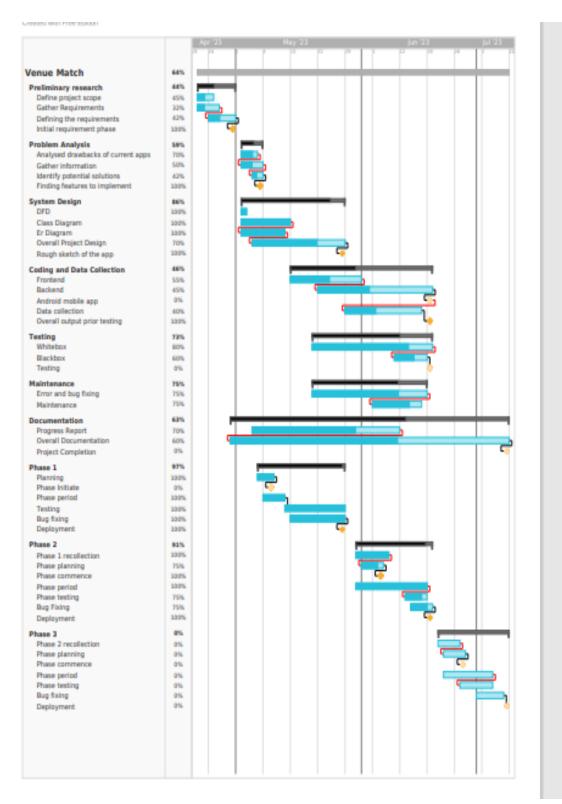


FIGURE 8 GANTT CHART

11. Project Results:

Venue Match App the Venue Match App was developed with the objective of providing users with a convenient platform to find suitable venues for their events and gatherings. After thorough development and testing, the app achieved the following results:

User-Friendly Interface: The Venue Match App boasts an intuitive and user-friendly interface, allowing users to easily navigate through the app's features and functionalities. The design incorporates a clean layout, making it simple for users to search, filter, and view venue options.

Accurate Venue Recommendations: The venue matching algorithm implemented in the app delivers accurate and relevant recommendations based on user preferences, such as location, capacity, amenities, and event type. Users can quickly find venues that align with their specific requirements.

Efficient Search and Filtering: The search and filtering mechanisms are efficient and responsive, enabling users to explore various venues and narrow down options quickly. Filters for price range, event type, and available dates enhance the search experience.

Seamless Booking Process: The app provides a seamless booking process, allowing users to reserve their chosen venues directly within the app. This streamlined process eliminates the need for manual bookings and reduces potential user frustrations.

Real-time Availability Tracking: Venue owners can update venue availability in realtime, ensuring that users receive up-to-date information about available dates and times.

Reliable and Secure Authentication: Robust authentication and authorization mechanisms ensure the security of user accounts and personal information. Users can confidently create accounts and log in using secure methods like email/password, social media login, or OAuth.

Scalable Architecture: The app was built using a scalable architecture, allowing it to handle increasing user traffic and growing venue listings without compromising performance.

Responsive Design: The Venue Match App's responsive design guarantees a consistent user experience across various devices and screen sizes, including smartphones, tablets, and web browsers.

Error Handling and Feedback: The app incorporates comprehensive error handling and provides meaningful feedback to users in case of errors or unsuccessful operations, enhancing the overall user experience. Extensibility and Maintainability: The project was developed with a focus on extensibility and maintainability. The codebase follows best practices and design patterns, making it easier to add new features and conduct future updates.

12. Future Enhancement

As the Venue Match App evolves and aims to provide an even better experience for its users, several future enhancements can be considered:

- Offer real-time availability updates and instant booking confirmation for users to access the latest information and secure reservations quickly.
- Enhance the app with event planning features: guest lists, and customization for seamless event management.
- Add venue comparison with user reviews and ratings for easy evaluation of different venues based on specific criteria.
- Implement social media integration to enable users to easily share their booked venues and event details, fostering social engagement by spreading the word among friends and family.
- Email verification and validation to ensure that an email address is both deliverable and genuine.
- Venue owner verification through documentation review (Proof of Identity),
 Legal Agreements, Background Checks, Site visit.
- Introduce virtual 360-degree venue tours for immersive exploration, enhancing user understanding of venue spaces.
- Creating a smooth integration between the two platforms (app and website) so that users can transition between them effortlessly with just a single action, typically a button or link.

13.Conclusion

The Venue Management System serves as a comprehensive and efficient solution, streamlining various facets of venue management. Notably, it enhances venue operations by simplifying event scheduling, bookings, resource allocation, and communication between stakeholders, markedly improving operational efficiency. Additionally, it fosters an improved customer experience, offering user-friendly interfaces for seamless venue browsing, availability checks, and reservations. This optimizes resource allocation by managing event calendars, bookings, and staff/equipment assignments, providing real-time visibility into resource availability, boosting productivity, and reducing costs. Effective communication is facilitated through various channels, minimizing misunderstandings and enhancing overall efficiency. Moreover, the system generates comprehensive reports and analytics, offering valuable insights into venue utilization, revenue generation, and customer preferences, empowering informed decision-making. Designed for scalability and customization, it adapts to diverse venue requirements, ensuring adaptability and easy expansion. In summary, the Venue Management System is a robust tool that significantly enhances venue management, resulting in increased efficiency, customer satisfaction, and business success upon implementation.

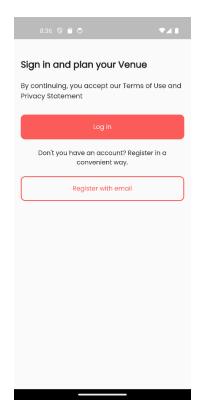
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Annexure

During the development of our project we have faced unfamiliar errors while developing various services and we have come across to solve the problem within the given time period of time. So we are finally able to deliver the website and mobile application that will satisfy the customers. Here are some screenshots of our system



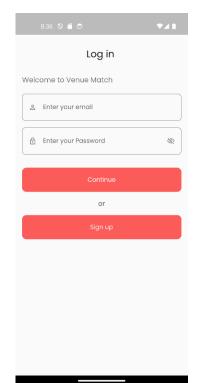


FIG: WELCOME SCREEN



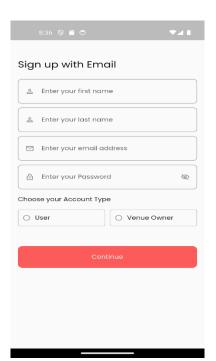


FIG: SIGNUP SCREEN

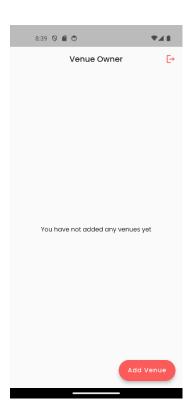
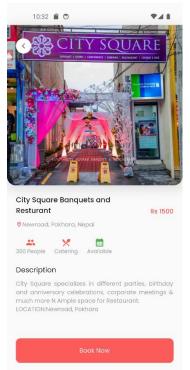


FIG: VENUE OWNER PAGE



8:45 🛇 🔳 🔿 Discover your perfect venue match. Q Search Categories 20 Ö AAman AAman Wedding Birthday Engagement Recommendation Brown Eyes Recept... Pokhara Grandee Pokhara Rs 1000 Pokhara Rs 1800 2 Profile 0 Booking

FIG: EXPLORE SCREEN

FIG: DETAIL SCREEN

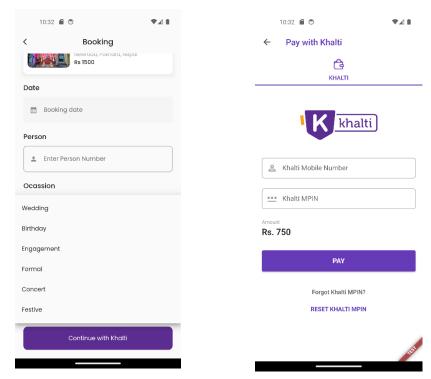


FIG: BOOKING AND PAYMENT SCREEN

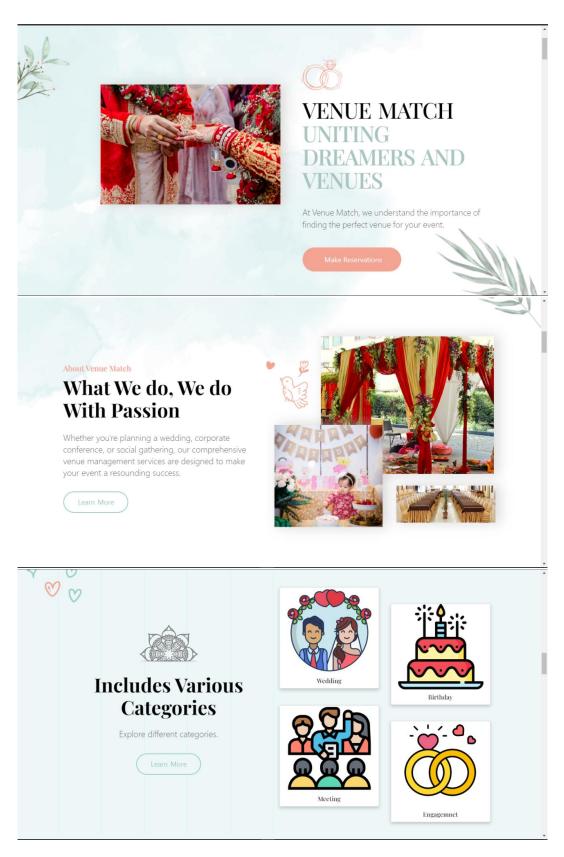


FIG: WEBSITE LANDING PAGE

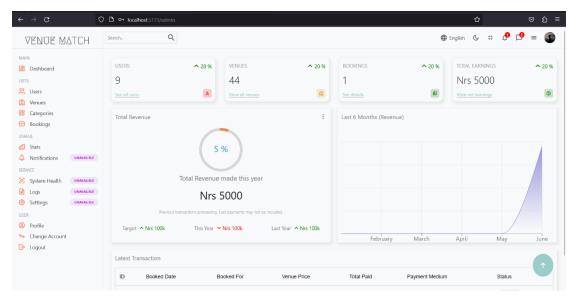


FIG: ADMIN DASHBOARD