

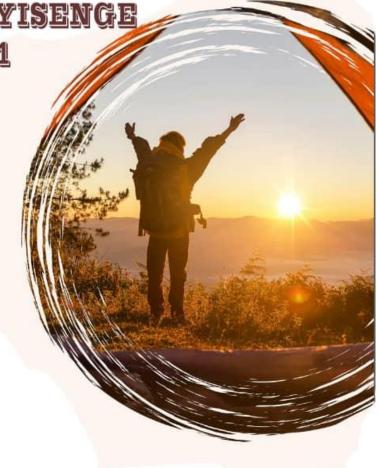
COLLEGE OF SCIENCE AND TECHNOLOGY

COMPUTER AND SOFTWARE ENGINEERING

WEB TECHNOLOGY

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NEW HOME



YEAR OF STUDY 2022-2023

NOVEMBER 20'TH 2023

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Chapter 1: INTRODUCTION

1.1 background study case

As everyone known RWANDA is small populated country which has almost youth people any one fighting for his/her development in that way almost us want to use opportinuity we look for on this most join different city because have position to be obtain opportinuity than in rural there are this resulting more populated in city but question is where we live? And don't known where they renter and some of owner of property don't able to find suitable renters this is challenge in accessing information about available housing options which become intermediary played role to join together who called commissioners, and takes more demanding for owner fee that will be big problem for both renters and landlord

as a university student, the challenge faced when seeking accommodations that is comes my inspiration to creating a platform that addresses the where available for renter and meet with landlord directly without multi-commissioners which common scenario, and each requiring payment.

Also, my vision behind our website is revolution in renting experience in Rwanda. We aim to join gap between landlord and renter by providing centralized platform facilitate quickly.

Our uniqueness solution from other is the way we do fast and organized system of communication when landlord upload his/her property directly move in available and when renter chosen their receive directly email which is make system fast.

1.2 problem statement

Navigating the rental market in Rwanda poses significant challenges for both landlords and renters, creating inefficiencies that hinder the growth of the property rental sector. Drawing from personal experiences as a university student, the arduous process of finding rental accommodations involved engaging with numerous commissioners, each demanding a fee. This not only extended the timeline for securing housing but also created financial burdens for both landlords and renters.

• Time management

As one who make this process and other around this processes of seeking house is most take long procedure because many population in small region like Kigali to known where we find it is most challenges to everyone who renter house and taken long time to meet with commissioners and meet with landlords

landlords

Most time talk with landlord we discover how can difficulties to find renter her/his properties possible to takes 2 or 3 month without renter but it's not problem of unavailable renter is challenge of how

publish his/her properties and way to communicate with renter. And also involved of commissioner which take more payment.

Renter

as university students we have experience to seeking accommodates we known challenging to find where is available and be expenses because involves of commissioner and occupy long time meet with landlord also, it cause misunderstanding when contact only because no way to it.

Cost

so, involve of commissioner and indirectly communication of with property it's rise price of payment and wrong payment.

Due to identified problem defined I think solution becomes the following

• Efficient matchmaking:

develop an advanced algorithm that facilitates precise and rapid connections between renters and landlords. The objective is to minimize the time taken to secure rental accommodations, ensuring a seamless and swift matchmaking process.

Cost reduction:

implement a transparent fee structure that significantly reduces costs for both landlords and renters. By eliminating excessive fees associated with intermediaries, our platform seeks to enhance affordability and foster a more financially inclusive rental market.

• Real-time communication hub:

create a robust communication platform that enables direct and instant communication between landlords and renters. This feature aims to streamline negotiations, property viewings, and overall rental transactions, fostering trust and transparency.

Regional expansion:

strategically expand our platform's reach to cover all regions in Rwanda. This expansion initiative is designed to connect landlords and renters seamlessly across the nation, transcending geographical constraints and creating a unified rental marketplace.

1.3 objective of new home.

1.3.1 general objectives

Our objective is to design advanced web platform which is able to facilitate precise and rapid connection between renters and landlord and able to keep information and sharing to renter 15000+ at same time

1.3.2 specific objectives

> To show everyone how can use web effective in order to get satisfied service

- make sure that all data or detail insert by landlord access by renter
- > quick connection when renter choose certain property landlord received email directly
- > creating way to show landlord how can manage property effective and make contract with renter
- reate page where renter come and search where we fit and entering the condition they want
- > way that landlord keeping information in order when return back with same asset don't occupation long time to insert some staff

1.4 project rationale

The rationale for our website is come from firsthand experience during my university years, where struggling to rent accommodations involved a long process, requiring multiple intermediaries and substantial fees. Witness from landlords struggle to find renter for long delays, it became evident that the existing rental system was needed. Motivated by a vision to streamline this process, our website seeks to bridge the gap between renters and landlords, eliminating unnecessary intermediaries. The project aims to create a user-friendly platform facilitating direct communication, reducing waiting periods for landlords, and making the rental process cost-effective. The inspiration to revolutionize this sector is rooted in a commitment to empower users, ensuring that finding a house or publishing a property becomes a seamless and fit experience.

1.5 project limitations

In certain limitations must be acknowledged. My fist point is success of direct connections between landlords and renters relies on user engagement, and an initial uptake may be required for optimal functionality. Payment of affordability of platform but it required in order to take careful consideration of pricing model and talking about technological innovation is like core of web project, external dependencies, such as internet infrastructure, and influence platform user or performance.

1.6 implementation plan

I think make according to when we study in order to implementation my website every day

month 1: ideal development

define my project and make deep analysis of website
make analysis of my web system(new home)
how can platform look like function we and structure
development of flow chat
development the website structure HTML and CSS.

Month 2: make iterative

insert in home page how submit and give feedback
creating different feedback form use
begin javaScript for enhanced interactivity
make user-friendly

month 3: backend

set up the backend infrastructure(PHP)
develop APIs for user registration and messaging

month 4: testing and launch

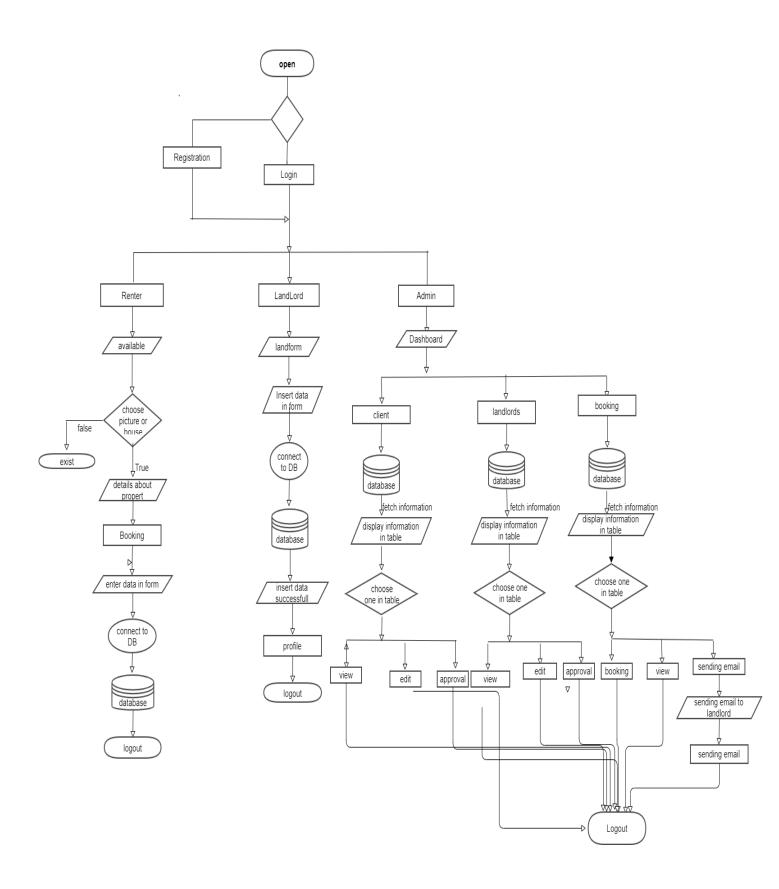
testing and record feedback correct error and launch

chapter 2. system analysis and design 2.1 system analysis 2.1.1 introduction to analysis design

Welcome to the journey of revolutionizing Rwanda's rental landscape. Inspired by a personal challenge during my university years, this project aims to simplify the rental process. As a student, finding accommodation meant navigating a maze of commissioners, each demanding a fee. Witnessing landlords struggle, I envisioned a solution. Today, our mission is clear: assist renters in finding homes effortlessly while empowering landlords to showcase their properties seamlessly. In this concise 3-month learning project, we'll delve into the development process, focusing on HTML, CSS, JavaScript for the frontend, and backend technologies. And also when talk about system work in way of user-friendly the system use enter and get home page login/registers we have welcome form for full-fill after continuous on service give option (renter/landlord) then landlord fill form and submit it when renter bowsering where they want and choose after making choose landlord received email directly and negotiations.

2.1.2 system actors(internal and external)

Flow chat user able to use system and system analyses



2.1.2 functional requirement of project

function	description	implementation
home	Welcome page that contain welcome form and log in which is able to access to log/registered in	HTML, CSS styling javascript for interactive
available	Display all available properties uploaded by landlord	HTML, CSS backend for display property data
service	Choose between renter and landlord	HTML, CSS javascript for dynamics content loading
About us	Information page about the project and organize info	HTML, CSS backend to provide project and organize info
login/register	User login page with email and password user registration form for frist-time users give able to access system	HTML,CSS backend for authentication javascript for form validation
landlord	Form for property owner to publish activity	HTML, CSS for layout and styling backend to property owner data
renter	Access to search information fitting needs	HTML, CSS javascript for dynamics content loading
Dashboard	Will be on landlord page shows level and visitor we have	HTML, CSS backend shows level of visitors
logout	Log out user and leave the page	Javascript for session/logout backend to handle logout

2.1.3 non-functional requirement of your project

functionality	Non- functional requirement
Maintenance page	Data integrity: keep information in good way
FAQ	Confirmation: in order use website in suitable way
properties	Performance: load time under 3 seconds scalability: design accommodates a growing user base

properties	Accessibility: design accommodates a growing user base without compromising perfomance
management	Organize ways to show landlord to manage his/her properties

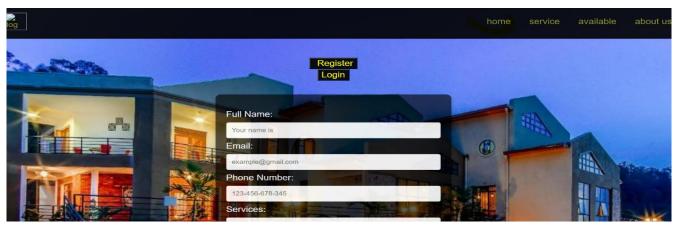
2.2. implementation

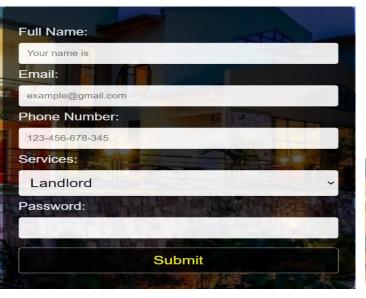
We are excited to present the current appearance of our website **'new_home'** through the dashboard implementation. The web design showcases a modern and user-friendly interface, providing a glimpse of the enhanced user experience we have developed. We hope you find it visually appealing and intuitive to navigate.

Welcome page to new_home

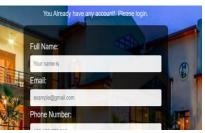
On our first page, visitors are greeted with a welcoming login and registration interface, making it easy for them to access our platform and explore the features. We aim to provide a simple and efficient entry point for users to join our community.

Figure 1 welcome page





Upon entering the welcome page, users encounter various functionalities, with the primary feature being the registration process. Through registration, users can access a form to provide necessary information and complete the sign-up procedure. This is form filled by one who are register first time if the email use received message already have account

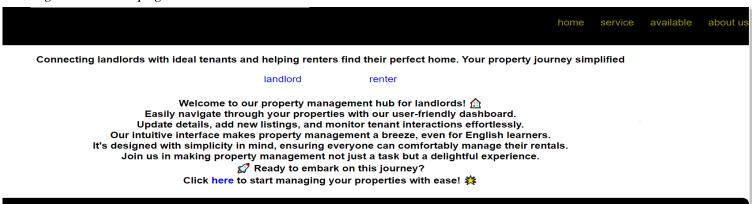


At the top of the page, there are four buttons—**Home, Services, Available, and About Us**—providing easy navigation options.

home service available about us

- ➤ **Home:** button shows the welcoming page, presenting our site in a pleasant manner with essential information for users to explore
- ➤ **Service:** Explore this section to discover details about the offerings at New Home. Whether you're a renter, landlord, or interested in property management, we provide comprehensive information. Choose a service that suits your needs and delve into learning about property management

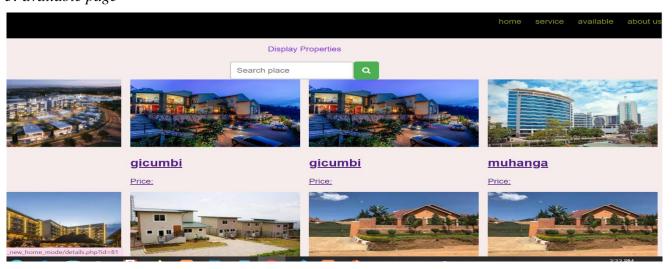
Figure 2 service page



properties

➤ Available: view houses uploaded by landlords and approved by admin. Stay tuned for more details on these available properties. Explore our listings for potential housing options.

Figure 3: available page



About us: When find information about our project's development, offering insights into our team and its journey. Learn more about our story and the people behind the project.

Figure 4 about us



Contact Us

For inquiries, you can reach us through the following:

WhatsApp: +250787899063

➤ **Newsletter:** Subscribe to our newsletter for updates on the latest properties, real estate trends, and exclusive offers. Stay informed about contact information and effectively utilize the page to enhance your property-related experience. Explore and connect with us for valuable insight



Login: we have 3 ways to login first as clients, landlord and Admin

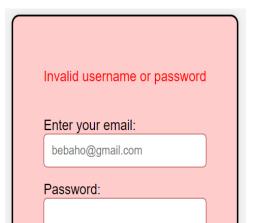
Enter your email:

bebaho@gmail.com

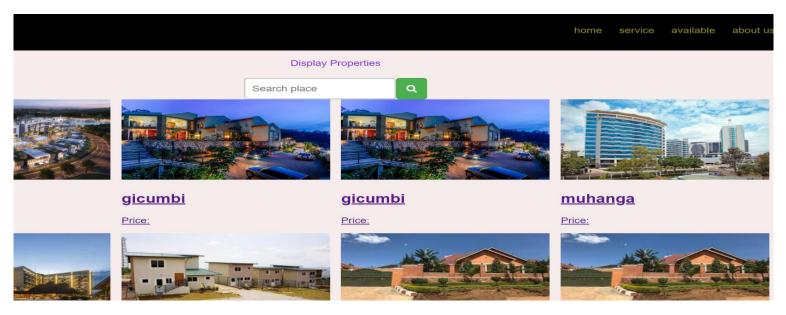
Password:

Figure 6 login form

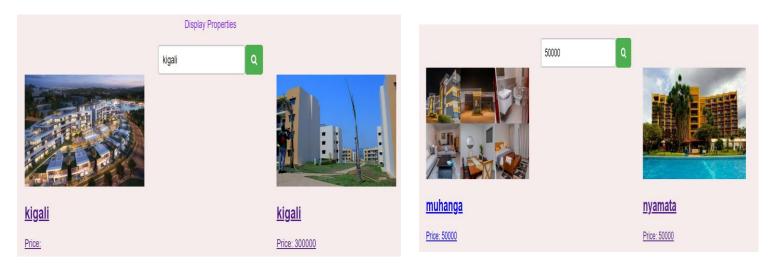




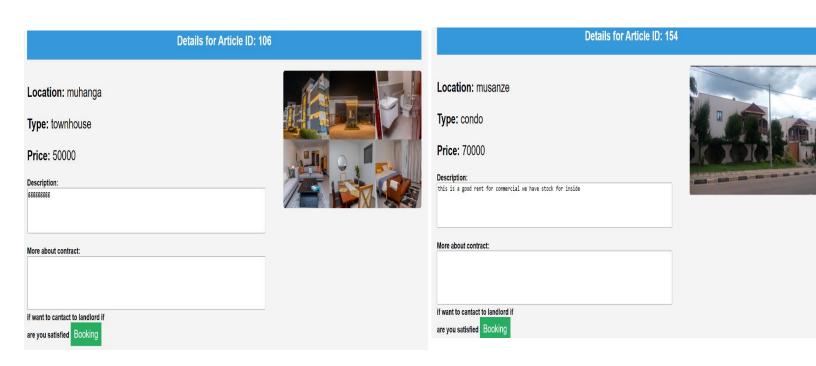
✓ **Login first case:** After logging in as a renter, you can directly navigate to the available houses page, where you'll find a list of available properties. Easily explore each house by clicking on its details to view and select the one that suits your preferences.



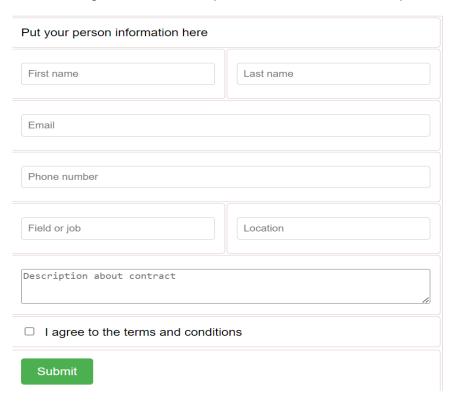
Utilize the user-friendly search box to easily find houses based on location or price. Input your desired criteria, and the system will display available options matching your preferences, streamlining your search process.



When a renter clicks on a picture, they can view all features and descriptions of the property in detail, providing comprehensive information at their fingertips. This enhances the user experience by offering a quick and informative overview of the selected house.

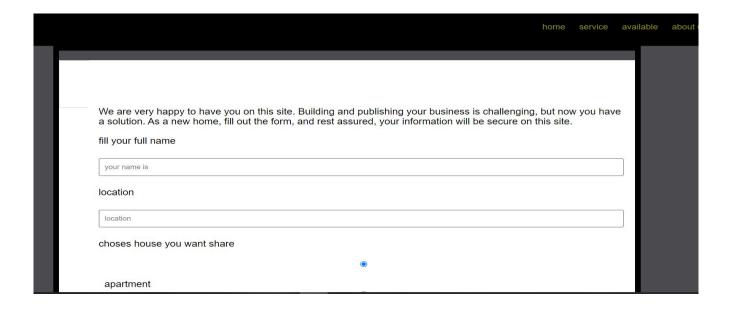


Upon liking the description and forming an opinion, renters can initiate the booking process by clicking on the booking button. Subsequently, they proceed to fill out the booking form, streamlining the reservation process for a seamless experience.



After submitting the booking form, renters receive a confirmation message and can expect a prompt response from landlords within a few hours, facilitating efficient communication and resolution.

Landlords log in and access a form displaying all required information for upload. The form simplifies the process, ensuring landlords can easily submit necessary details. This user-friendly interface streamlines the upload experience for landlords.



This form is structured into three sections. The initial part captures personal information, while the second part focuses on property details, including images and a PDF document verifying legal ownership. The third segment gathers information related to payments. In a comprehensive approach, the form is divided into these three distinct parts, ensuring a systematic and organized submission process for users. Each section serves a specific purpose, covering personal details, property documentation, and payment information. The final section prompts users to review their entries before submitting. The form's design facilitates easy editing before the submission, providing a user-friendly experience. The submission process concludes with a straightforward submission button. This well-organized form ensures that landlords can efficiently provide all required information for a seamless interaction.

We are very happy to have you on this site. Building and publishing your business is challenging, but now you have a solution. As a new home, fill out the form, and rest assured, your information will be secure on this site. fill your full name your name is	phone upload some picture Choose File No file chosen Description: more about contract:	To approve a property, legal significance is crucial. Only documents with a legal permit, such as a PDF, are accertised the authenticity and ownership of the property additionally, a photo ID is required to verify the owner's identity. Approval signifies adherence to legal standards safeguarding both parties involved. Upload PDF File:	epted. erty.
iocation		Choose File No file chosen	
location			
More on payment of landlord		-	
Choose Payment Method:		The payment options are	
MTN Mobile Money		presented with three choices: Airtel, MTN, and bank account. Upon	
Airtel Money ☑	1	selecting a cellular network, the interface	
Bank Account		prompts for the phone	
Enter your phone number:		number, Choose Payment Method:	
		Onloose Payment Method.	
Enter the name of the bank:		MTN Mobile Money	
		Airtel Money	
Enter your account number:		Bank Account Enter your phone number:	
SUBM	MIT	J	
while opting for the bank option	n reveals fields for the bank nam	e and account details.	
MTN Mobile Money			
Airtel Money			
Bank Account Enter the name of the bank:			

Enter your account number:

Then login as admin

The dashboard showcases information retrieved from the landlord table, featuring three key functions: "View," displaying details about a landlord; "Edit," allowing for information modification; and "Approval," where all landlord details are reviewed and approved before being displayed. It is crucial to carefully scrutinize the information before approval to deter unserious individuals. Following approval, the data becomes visible in the "Available" section, ensuring a thorough vetting process for serious consideration. This user-friendly interface provides beginners with clear functionalities for managing landlord information effectively.

Adn	booking Message Clients Publish payment Logout											
	2											
ID	HOUSE	HOUSENAME	PRICE	LOCATION	PHONE	Status	ACTIO	N				
79	uploads/apartement_nyarutarama.jpg	habimana		kigali	787899087	Approved	View	Edit	Approval			
80	uploads/background.jpg	mukiza		gicumbi	78554332	Approved	View	Edit	Approval			
81	uploads/background.jpg	mukiza		gicumbi	78554332	Approved	View	Edit	Approval			
82	uploads/mordenmarket.jpeg	eric dusenge		muhanga	787899453	Approved	View	Edit	Approval			
83	uploads/m_hotel.jpeg	benjamin		nyamata	787995432	Approved	View	Edit	Approval			
84	uploads/slams for renter.jpeg	habiyakare		muhanga	78787966	Approved	View	Edit	Approval			
85	uploads/icyamunara.jpeg	bayisezere emmy	0	nyamata	787965787	Approved	View	Edit	Approval			
86	uploads/icyamunara.jpeg	bayisezere emmy	0	nyamata	787965787	Approved	View	Edit	Approval			
87	uploads/icyamunara.jpeg	bayisezere emmy	0	nyamata	787965787	Approved	View	Edit	Approval			

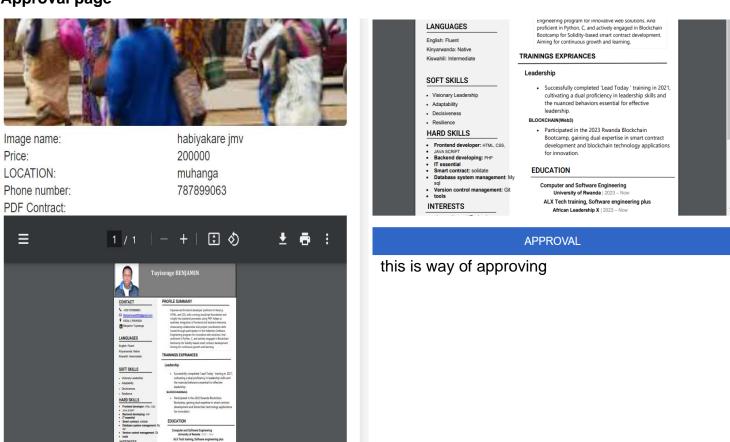
For view



For approval



Approval page



30000

kirenge

787899063

Approved

View

Edit

Approval

other page on dashboard is looking about booking when admin what to display information

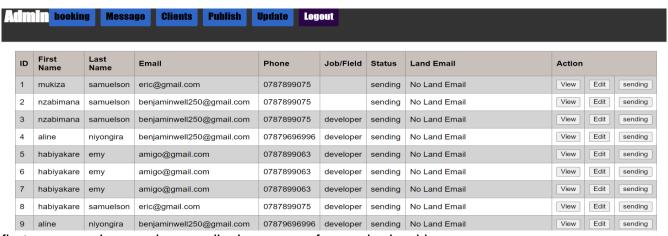
tuyisenge

uploads/65a80ef2d550a_EGP_cat[1] (3).pdf

fetched form booking On the dashboard's booking page, administrators can effortlessly view information sourced from the booking table. This streamlined interface enables admins to



promptly access and manage booking details with ease



first name and second name display name of one who booking

email: display email of one who booking

phone: contact of booking

land email: this is email of landlord who is owner of booked house

mukiza	samuelson	mukizasamuelson@gmail.com	0790253029	surveyor	sending	amigo@gmail.com	View	Edit	sending
mukiza	samuelson	eric@gmail.com	0787899075	surveyor	sending	benjamintuyisenge2003@gmail.com	View	Edit	sending

action: we have three functionality let took it. View, edit, sending.

View: display information about renter

This is a way to approve property and display to the customer. Be careful!

first name: mukiza last name: samuelson

Email: mukizasamuelson@gmail.com

0790253029 Phone:
discuption: hfhghgjgjgjg
phone: 0790253029
Status/td> sending

Sending: this is way of sending email from welcome to landlord who is posted this house

This combine approval and sending email to landlord who is hosted

This is a way to approve property and display to the customer. Be careful!

first name: mukiza
last name: samuelson
Email: eric@gmail.com

0787899075 Phone:

discuption: i want classic room for 2 weeks

phone: 0787899075 Status/td> sending

APPROVAL SENDING

SEND EMAIL

When sending email to landlord

Warning: mail(): Failed to connect to mailserver at "localhost" port 25, verify your "SMTP" and "smtp_port" setting in php.ini or use ini_set() in

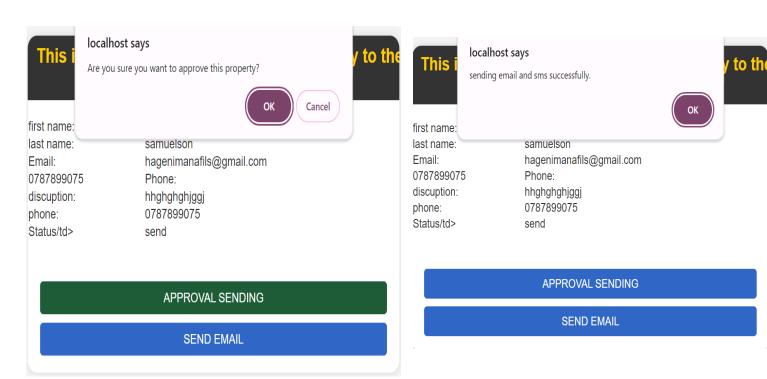
C:\Users\Administrator\Desktop\xMPP\htdocs\collective_new_home_mode\boo on line 180

Error sending email to benjamintuyisenge2003@gmail.com

This is email about when I try to send email to landlord called benjamintuyisenge2003@gmail.com I think is need to set API it's only problem of time

Approving I think is work as well in order to display one email is pending and sending

20	mukiza	samuelson	hagenimanafils@gmail.com	0787899075	developer	pending	samuelson@gmail.com	View	Edit	sending	
Tł	nen,			I	I			1		'	

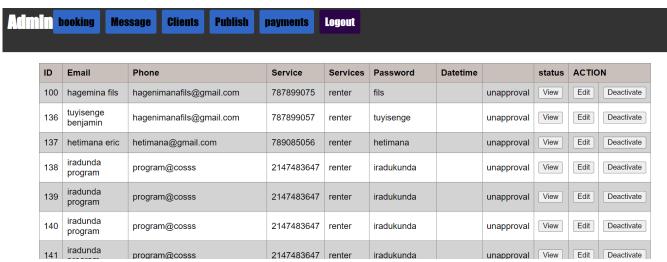


After finishing it then we see on

20	mukiza	samuelson	hagenimanafils@gmail.com	0787899075	developer	sending	samuelson@gmail.com	View	Edit	sending	
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Already email sending

When you click fetch data form related to any one registered on web including time and for login and approval one register to access if is choose to be **admin** before allow to enter as admin



Email: display email of register

Phone: phone number

Password: display password

Datetime: display time registered in

Status: display if is approved or unapproved

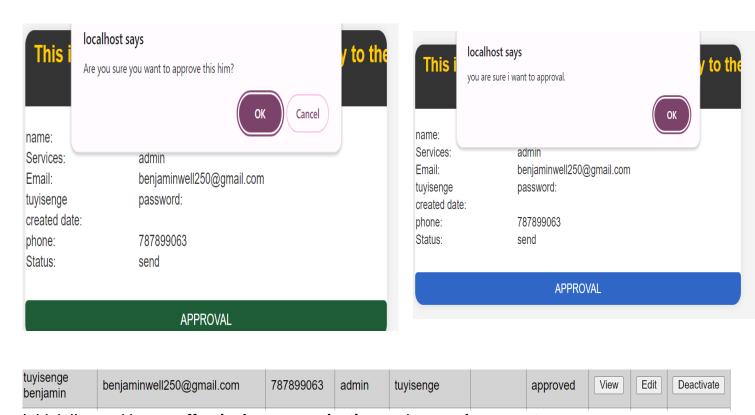
Action: display functionality view, edit, deactive

Let's talk about functionality

✓ View



✓ Deactive



I think I'm working on effectively communication and ways of payments

It sounds like you've made significant progress in your assignment, successfully implementing HTML, CSS, and JavaScript for a responsive frontend design. Additionally, you've tackled backend development to insert and fetch information from a database, displaying it in a table

with customized CSS. While you've made great strides and are around 80% complete, you acknowledge that refining the design, handling payment integration, and optimizing communication are areas where you're still actively working. These tasks, coupled with limited experience in design, have posed some challenges and consumed additional time. Despite these factors, you're determined to enhance the user experience and streamline the administrative aspect by developing a dashboard for the admin. Overall, your multifaceted approach demonstrates a comprehensive understanding of both frontend and backend development, with a focus on achieving a well-rounded and effective web solution.

All my code with in

Git: https://github.com/tuyisenge250/ur-web-design.git

User:

- ✓ example of admin: email: benjaminwell250@gmail.com password: tuyisenge
- ✓ example of landlord: email: harerimanaemy@gmail.com password: harerimana
- ✓ example of renter: email: hagenimanafils@gmail.com password: fils