



BANGLADESH ARMY UNIVERSITY OF SCIENCE & TECHNOLOGY (BAUST)

Department of Computer Science and Engineering (CSE)

House Rental Management System

- COURSE CODE : CSE 2206
- COURSE TITLE : Database Management System Sessional
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Introduction



Made for students.



No more hassles.



Suitable accommodations for every students.



Problem Definition



- Limited housing options near educational institutions.
- Houses are not found according to users budget.
- Scams and unreliable listings.



Available Applications

Projects		Features	Problems
1	Zillow (https://www.zillow.com/)	Use agencies for better coverage.	Missing Local Listings.
		Missing listing network.	Limited property options.
2	Trulia (https://www.trulia.com/)	Maintenance & Update.	Lack of Real-Time Updates.
		Comprehensive pricing.	Lack of accurate pricing.
3	Rent (http://www.Rent.com/)	Rent negotiation platform.	Limited Budget Options.
		Enhanced search filter.	No area based search option.

Available Applications

Projects	Features	Problems
4 Airbnb (https://www.airbnb.com/)	Detailed description about property.	Not used accurate property images.
	Regular verification & user rating.	Outdated listing.
5 Craigslist (https://www.craigslist.com/)	Enhanced data security.	Hassle to fill-up lots of information.





Objectives

- Create an efficient rental system : paperless process, hassle-free experience.
- Efficient property search.
- User friendly interface.
- Secure transactions.



Stakeholders

- **Owner** : want to easily manage their properties.
- **Tenants** : look for user friendly rental experience.
- **Developers** : aim to build a reliable house rental system.





Issues Encountered

- Technical Bugs.
- User Adoption Challenges.
- Data Security Concerns.



Methodology

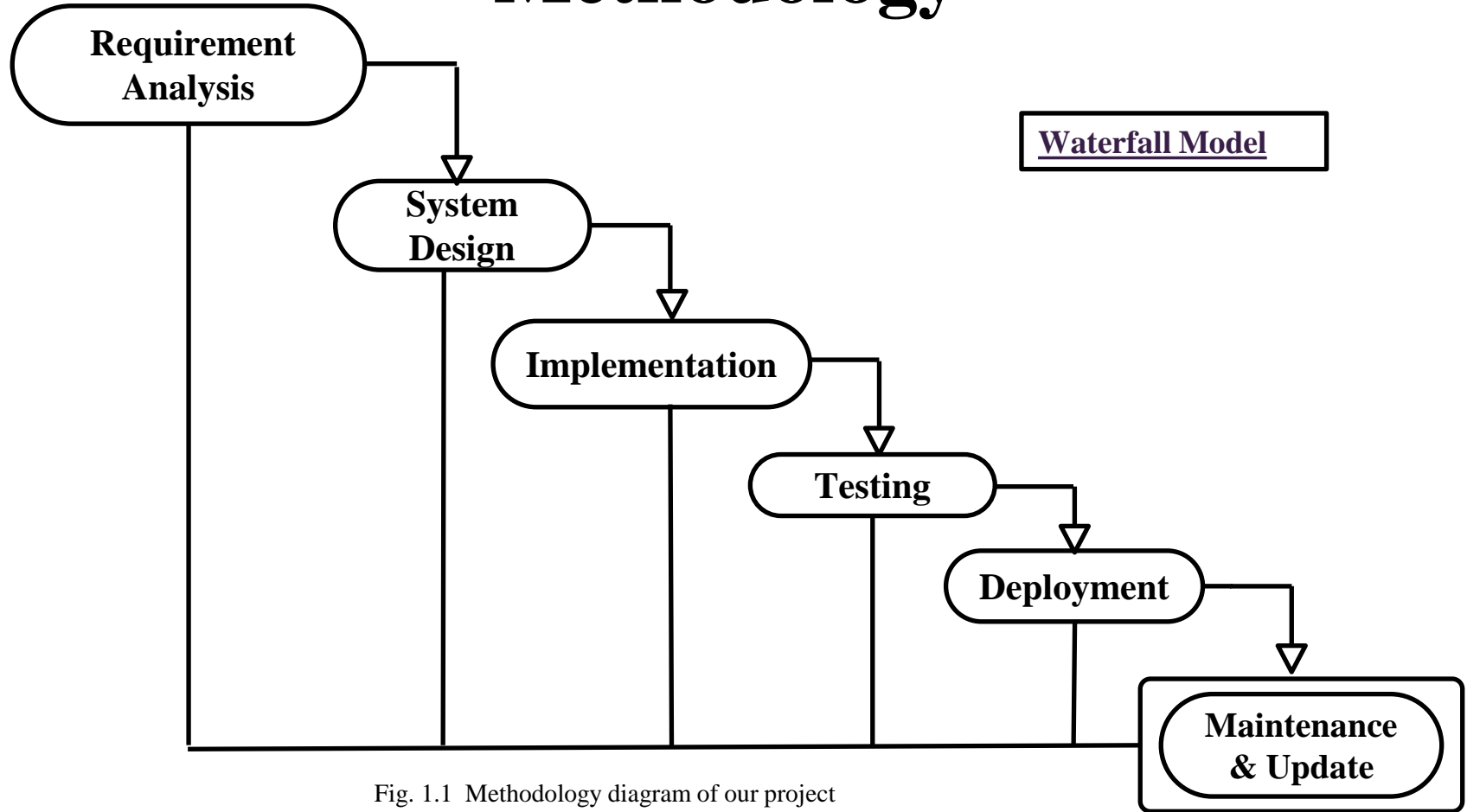


Fig. 1.1 Methodology diagram of our project

System Architecture

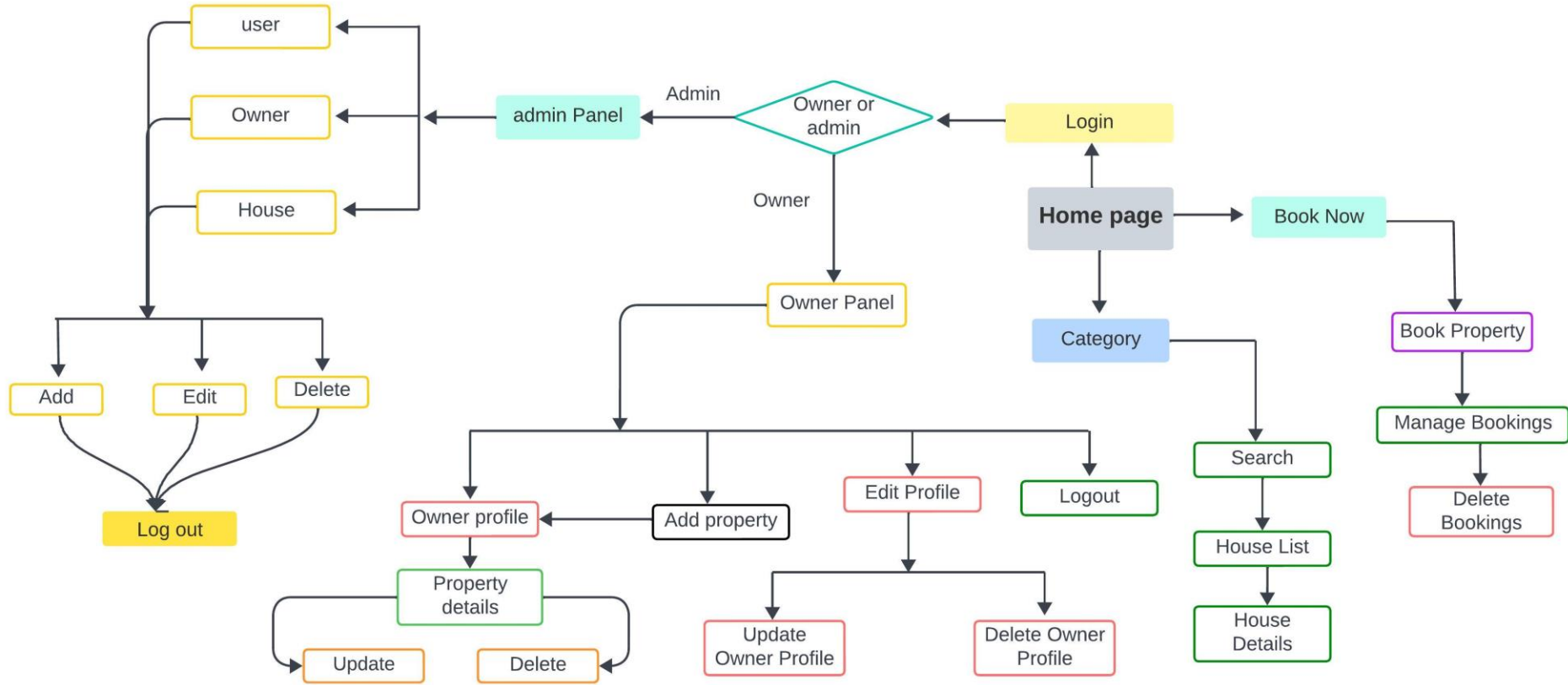


Fig. 1.2 System architecture of our project

Entity Relationship Diagram

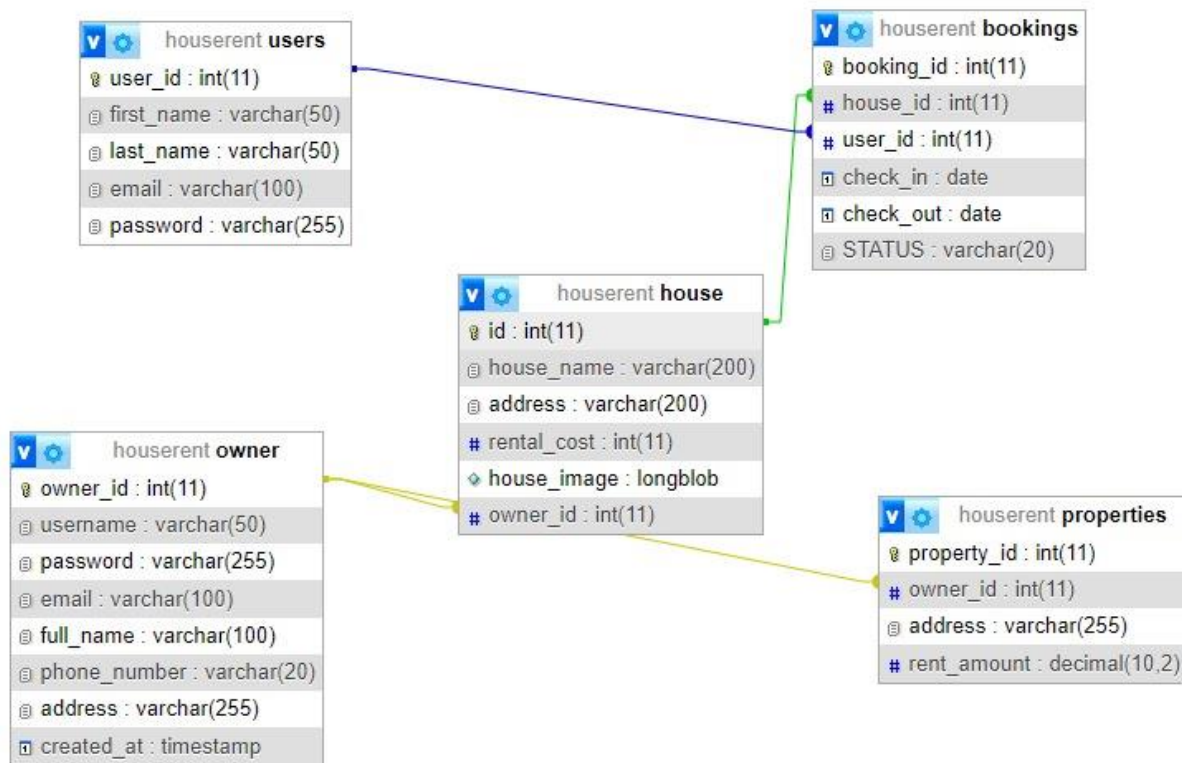


Fig. 1.3 Entity relationship diagram of our project



Tools & Technologies



- **HTML**

- **CSS**

- **PHP**

- **MySQL**



Home Page

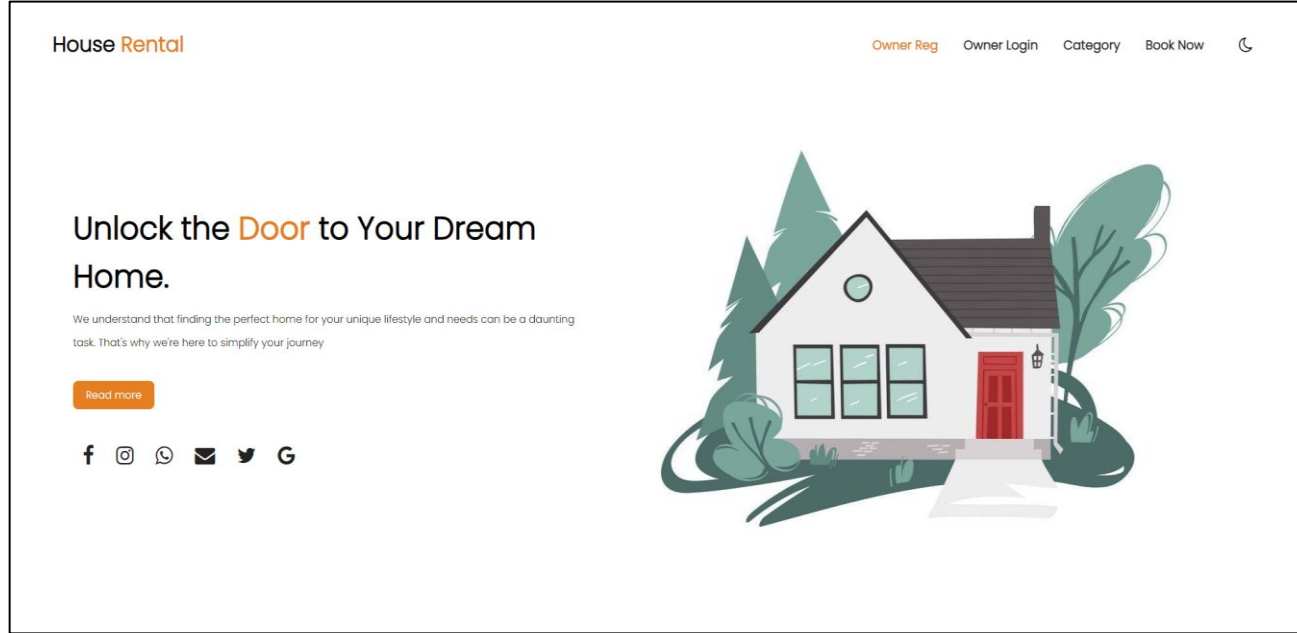


Fig .1.4 Home page

Contents

- Navigation Bar
- Owner Registration
- Owner Login
- Category
- Book Now

Owner Registration


House Rental

Owner Reg Account

You can use letters, numbers & periods
Use my current email address instead

Use 8 or characters with a mix of letters, numbers
& symbols

[Sign in Instead](#)



Turning Houses into Homes

Owner Registration

- Insert full name
- Insert username
- Insert email
- Insert password
- Submit

Fig .2 Registration page

Owner Login

House Rent

Registration


Login for Owner

Log in with your data that you entered during your registration

Enter your email address

Enter your Password

[Forget Password](#)



Owner Login

- Insert email
- Insert password
- Login

Fig .3 Login page

Owner Login : Owner panel

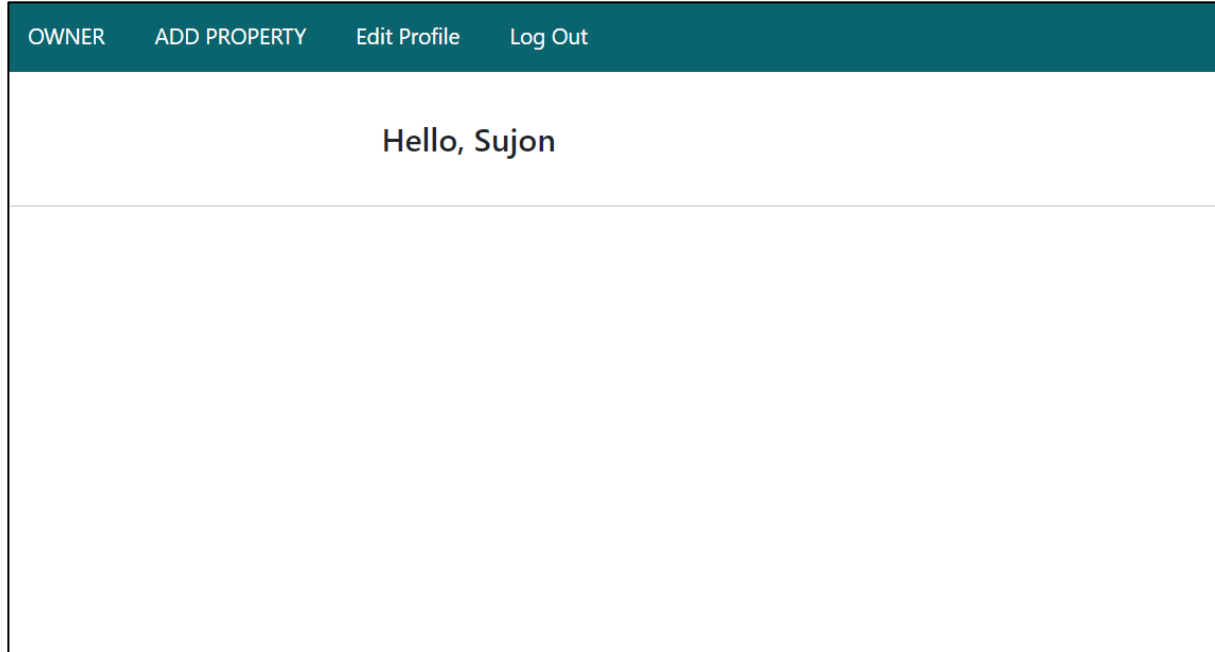
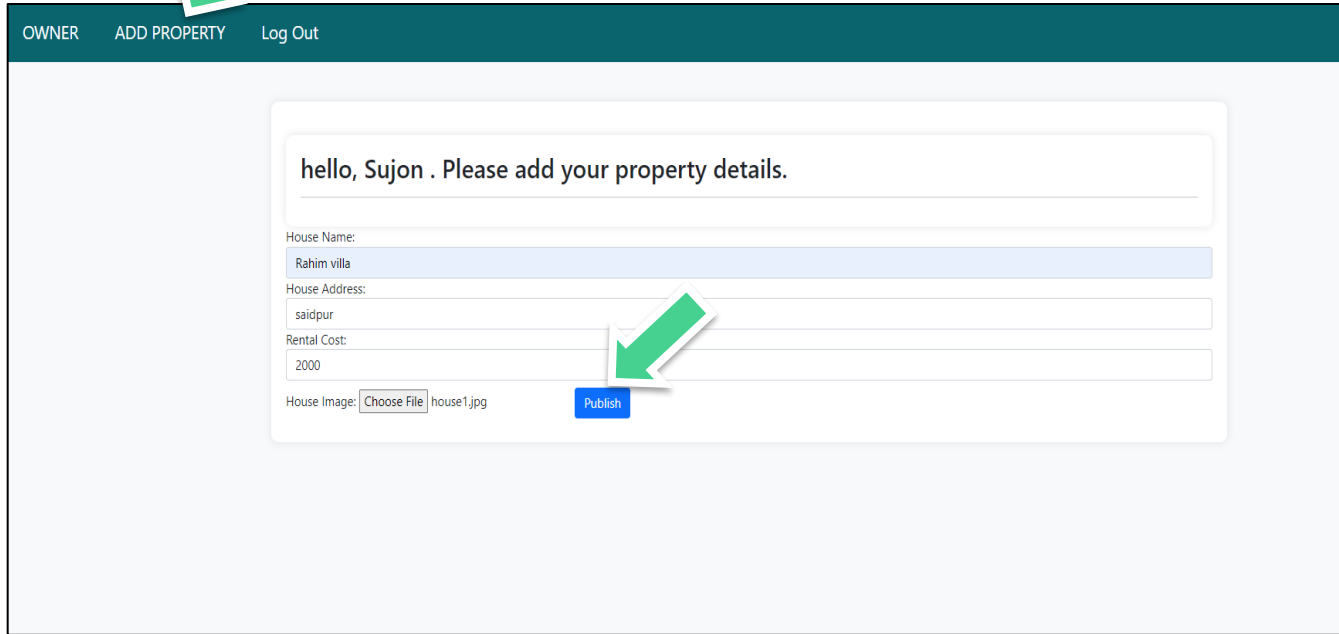


Fig .4 Owner panel

Owner Panel

- Add property
- Owner profile
- Edit profile
- Logout

Owner Panel : Add property



OWNER ADD PROPERTY Log Out

hello, Sujon . Please add your property details.

House Name:
Rahim villa

House Address:
saidpur

Rental Cost:
2000

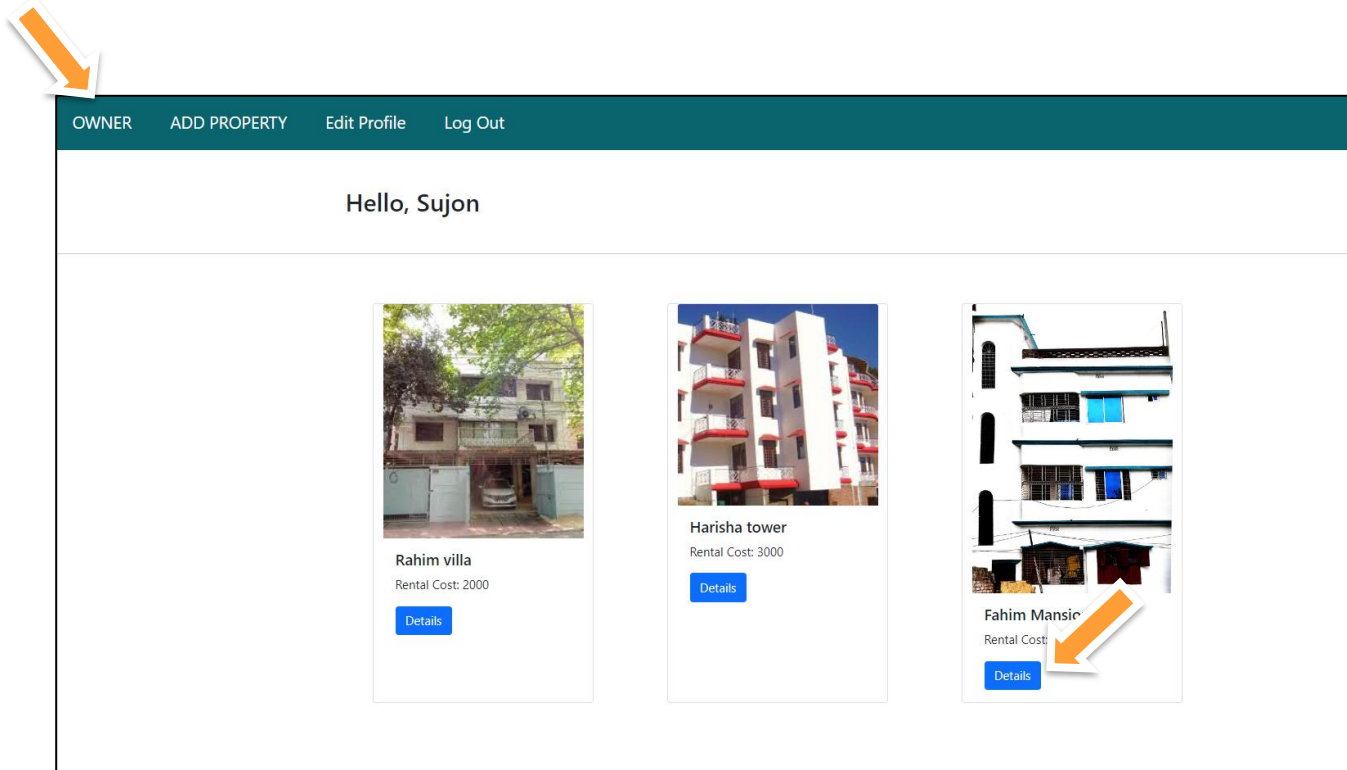
House Image: house1.jpg

Add property

- Insert house name
- Insert house address
- Insert cost
- Insert house image
- Publish

Fig .5 Add property

Owner Panel : Owner profile

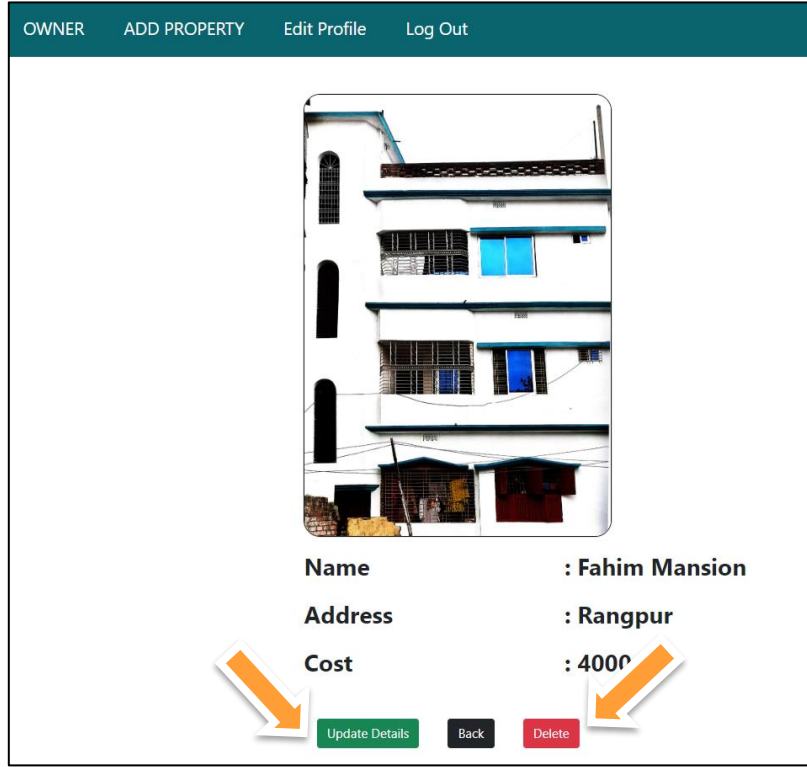


Owner Profile

- Owner house list
- House details

Fig .6 Owner profile

Owner Profile : Details

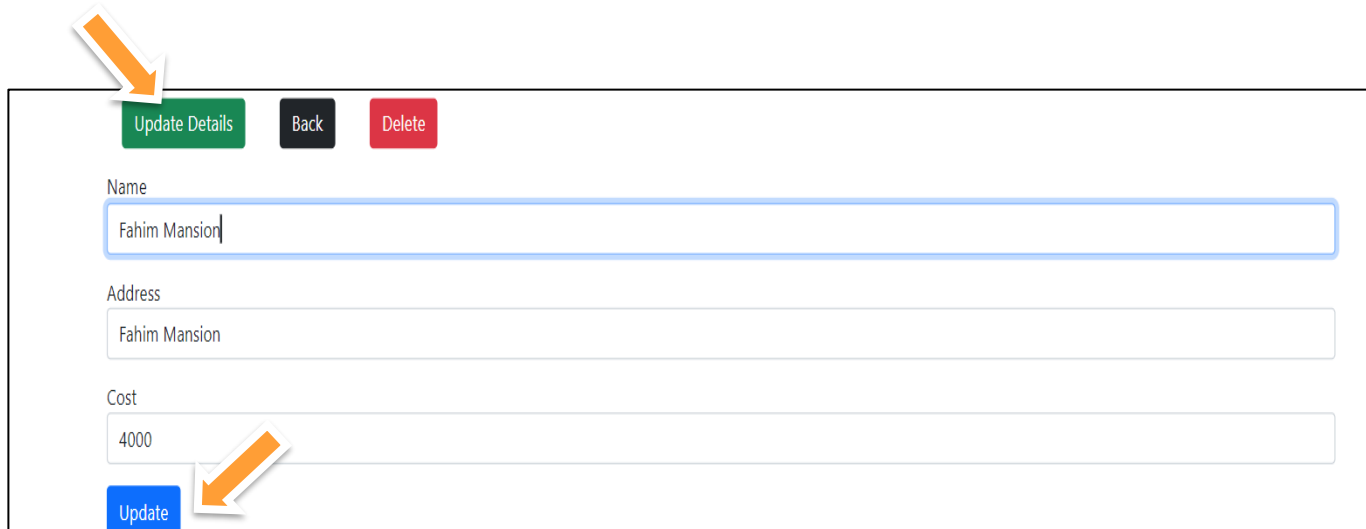


Details

- Update details
- Delete details
- Back

Fig .7 Details

Details : Update details



The screenshot shows a web form titled 'Update Details'. At the top, there are three buttons: 'Update Details' (green), 'Back' (dark grey), and 'Delete' (red). Below these are three input fields: 'Name' (containing 'Fahim Mansion'), 'Address' (containing 'Fahim Mansion'), and 'Cost' (containing '4000'). At the bottom left is a blue 'Update' button. Two orange arrows with white outlines point to the 'Update Details' button at the top and the 'Update' button at the bottom.

Update Details

Back

Delete

Name

Fahim Mansion

Address

Fahim Mansion

Cost

4000

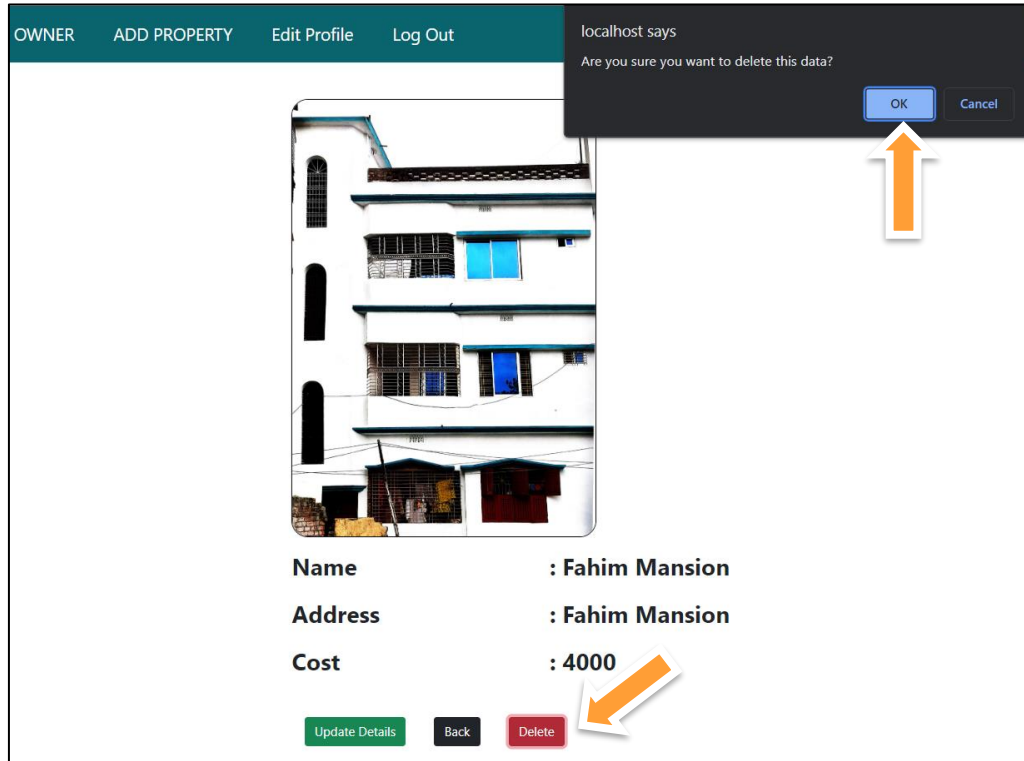
Update

Update details

- Edit name
- Edit address
- Edit cost
- Update

Fig .8 Update details

Details : Delete details



Delete details

➤ Confirm delete

Fig .9 Delete details

Category

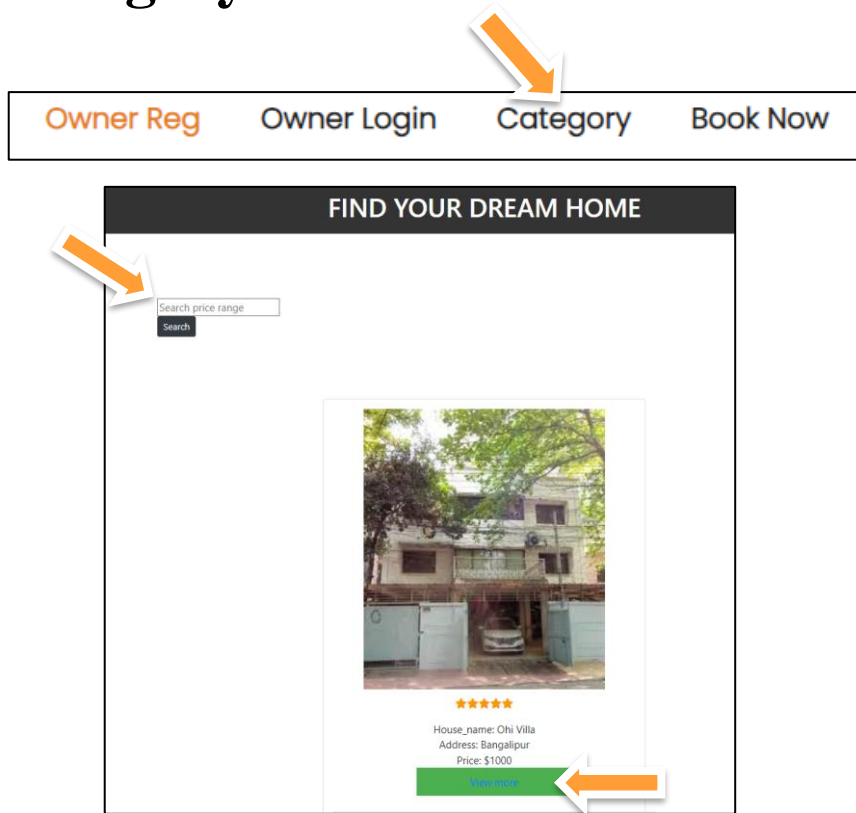


Fig .10 Category page

Category

- Search
- View more

Category : Search



house_name	rental_cost	address
Prapti Tower	12000	Plaza
nil	12000	dhaka
Bipa Villa	12000	Gaibandha

Fig .11 Search houses

Search

- Search price range
- House list under price
- Show particular house

Book Now

[Owner Reg](#) [Owner Login](#) [Category](#) [Book Now](#)

Book a Property

Select Property:

Your User ID:

Check-in Date:

Check-out Date:

[Book Now](#)

Book a Property

Select Property:

- Ohi Villa
- Dip Villa
- Sejan Villa
- Raj Villa
- Tomal villa
- Niloy Villa
- Rahim Villa
- Nur Mansion
- Mahi Villa**
- Fahim Villa
- Harisa plaza
- Prapti Tower
- Tamim
- nli
- rahim tower
- Bipa Villa
- Rahim villa
- Harisha tower
- Fahim Mansion

Check-in Date:

October 2023

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	7	8	9	10	11

[Clear](#) [Today](#)

[Book Now](#)

Book Now

- Select property
- Insert user_id
- Select check_in date
- Select check_out date
- Book now

Fig .12 Booking page

Book Now : Manage bookings

Manage Bookings					
House ID	User ID	Check-in	Check-out	Status	Action
8	10	2023-10-18	2023-10-12	pending	Delete
7	9	2023-10-11	2023-10-11	pending	Delete
1	9	2023-10-27	2023-10-13	pending	Delete

Fig .13 Manage bookings

Manage bookings

- Show bookings
- Delete bookings

Admin Panel

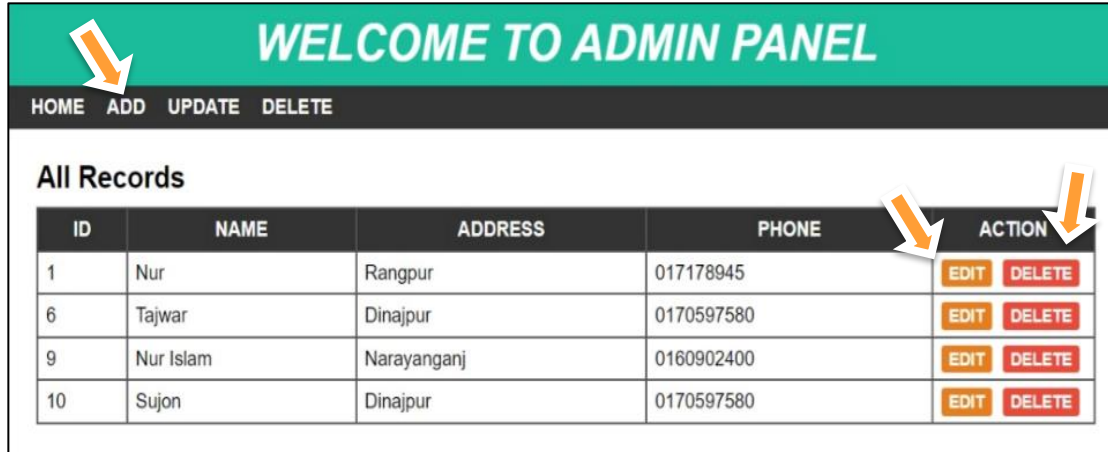
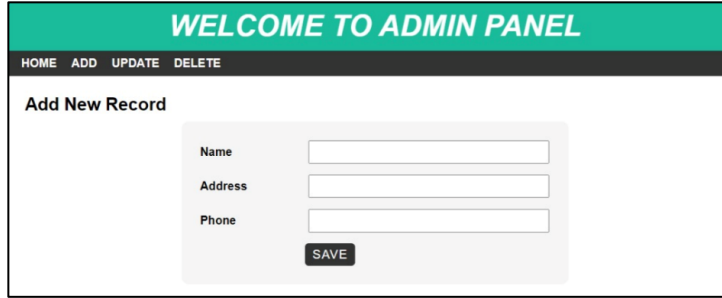


Fig .14 Admin panel

Manage bookings

- Add records
- Update records
- Delete records

Admin Panel : Add, update, delete



WELCOME TO ADMIN PANEL

HOME ADD UPDATE DELETE

Add New Record

Name

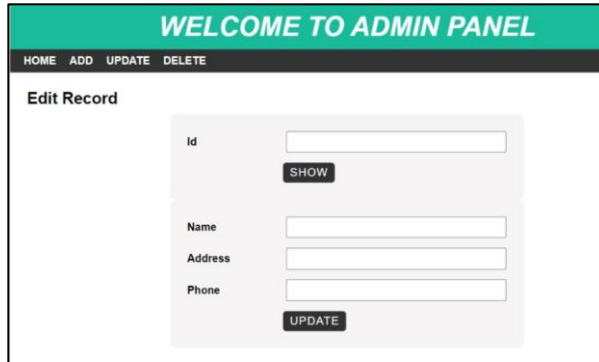
Address

Phone

SAVE

Add, update, delete

- Add user
- Update user
- Delete user



WELCOME TO ADMIN PANEL

HOME ADD UPDATE DELETE

Edit Record

Id

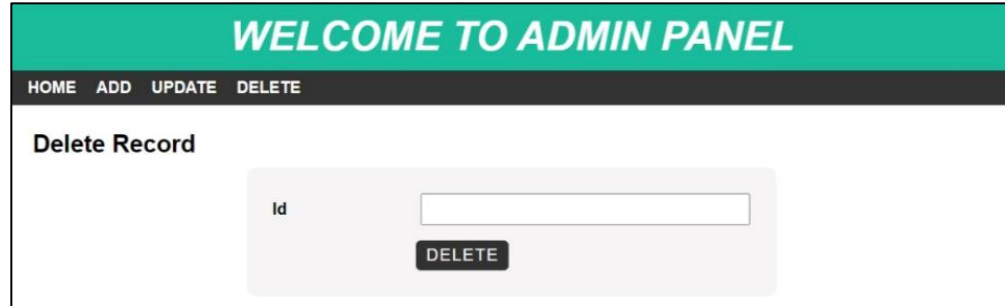
SHOW

Name

Address

Phone

UPDATE



WELCOME TO ADMIN PANEL

HOME ADD UPDATE DELETE

Delete Record

Id

DELETE

Fig .15 Operations



Future Works

- We will add payment gateway option.
- We will add user profile.
- We will upgrade our admin panel.





Conclusion

- We tried to implement a user friendly interface for our website .
- Categorized house searching.





Limitations

- Initial learning Curve.
- Continuous feedback loop.
- Customization Constraints.





References

1. <https://www.w3schools.com/>[1]
2. <https://www.mysqltutorial.org/>[2]
3. <https://www.javatpoint.com/php-tutorial>[3]



THANK YOU