



LIVE TOGETHER. SHARE TOGETHER

Effective house sharing and management website for a
multi-user environment

Team 8:

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CSE 5335-002 WEB DATA MANAGEMENT

SPRING - 2018

SHARING THE COMMON HOUSE

ABSTRACT

The purpose of this project is to create a web application which will enable the legal heirs to track possession of a common inherited house, its rooms and common areas and also enable their visitors to interact with the system to manage the state of the house like expenses, heirs payments towards the expenses and condition of the house.

Motivation for this project lies in the fact that before the introduction of web technology, house management work was done manually with a lot of paper work involved. Papers can easily get damaged or get lost leading to loss of data. It is also expensive to keep on buying files to store your records. Getting a certain file to check data from many files becomes a difficult task. Data security is not assured which can be a major concern for many clients.

Considering these facts, developing a house management/Occupancy Tracking system for an inherited house that can solve all the problems experienced with a manual system or localized system makes sense. The system is to be developed in such manner that it provides maximum user-friendly interface as the end users will be naïve computer users who are not collocated.

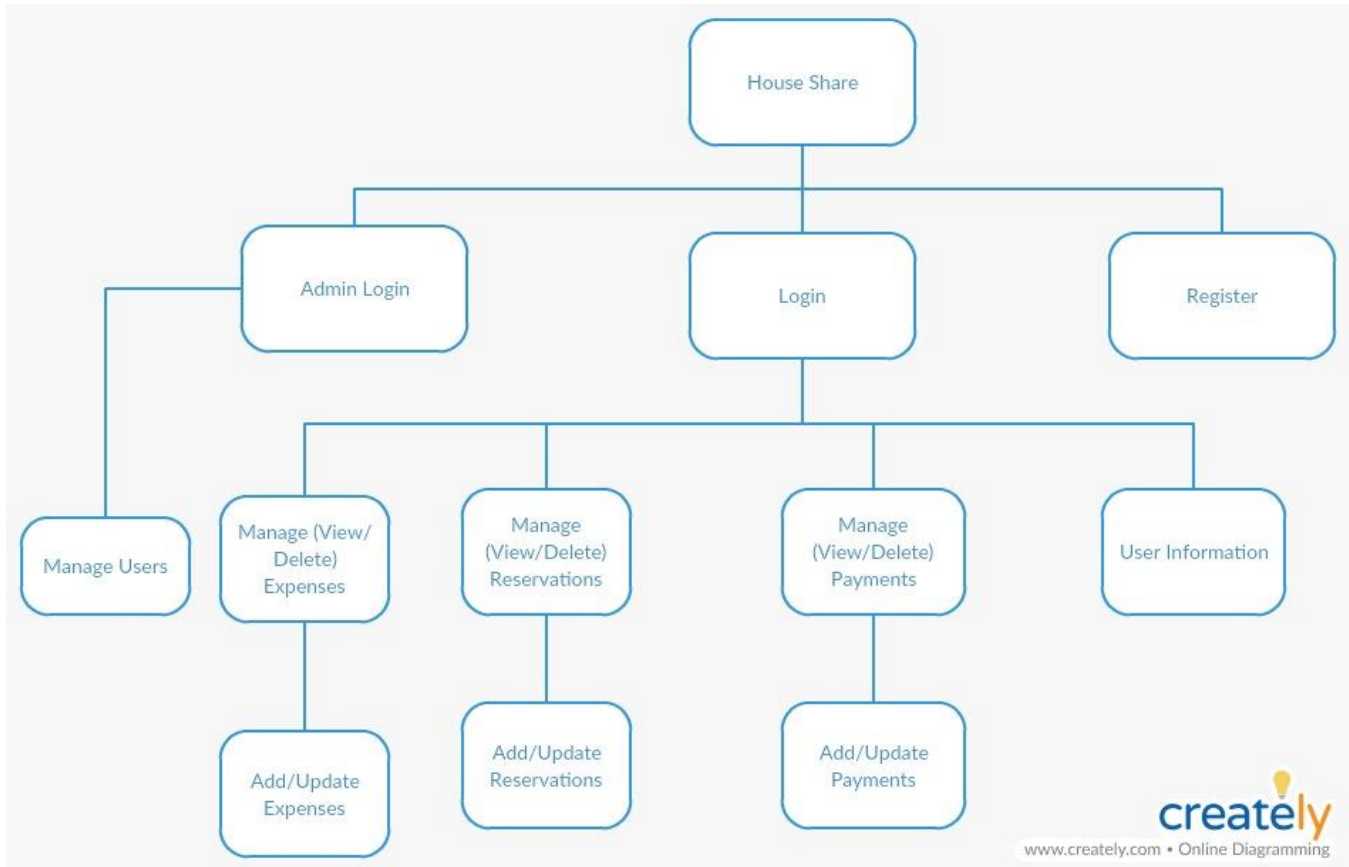
We plan to develop a system that allows all types of user roles i.e. admins, heirs and their visitors to register and login. Once you the user logs in the system automatically show options how you interact based on your user role: The functionalities will include updating and deleting the already registered users, heirs and visitors linked to an heir. The users will also be able to make a reservation, update and delete previously made reservations for a period and occupants. Heirs and their visitors should be able to register, update and delete house expenses. The application should also allow the heirs to register, update and delete their share of payments towards the house. As the visitors will mostly be occupying the house, the application should allow them to update and delete the condition of the house before and after their stay which will allow house owners to take up necessary steps to maintain the condition of the house.

By the end of the semester a working implementation (i.e. website) of the above ideas will be delivered. Along with the website; its mission, vision, documentation will also be delivered. We will also be presenting a ppt and video on the website and make available our minutes of the meeting.

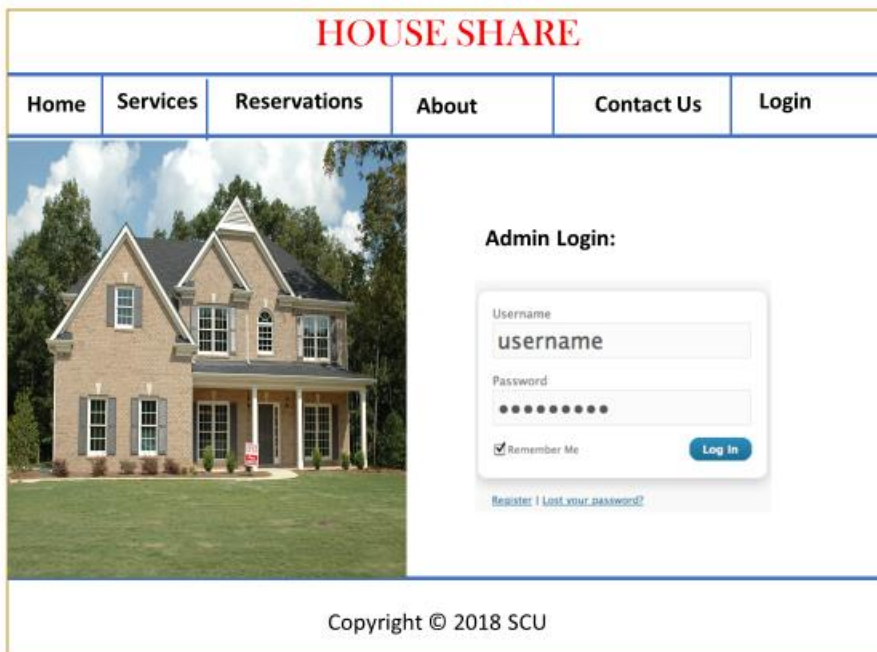
Our target user groups will be potential players in real-estate management and owners of houses which have multiple owners due to inheriting. The system can also be made available to any group which needs sharing houses like in a university housing.

Our database will keep information about the users, their login credentials and their roles. The database will mainly hold the reservation details. It will also store information about the financial transactions made by the heirs, the expenses incurred and the state of the house as registered by the users of the house.

URL Structure:




Page Layout Design:



HOUSE SHARE

Home	Services	Reservations	About	Contact Us	Login
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User Login:

Username

username

Password

••••••••

☒ Remember Me

Log In

[Register](#) | [Lost your password?](#)

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HOUSE SHARE

Home	Services	Reservations	About	Contact Us	Login
------	----------	--------------	-------	------------	-------



New User Registration:

Username

First Name

Last Name

Password

Confirm Password

Email

Gender

☐ Male
 ☐ Female


☐ I accept Terms and Conditions

Register

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HOUSE SHARE

Home	Services	Reservations	Expenses	Payments	Logout
------	----------	--------------	----------	----------	--------



User Information

Username	Firstname	Lastname	Email	Booking ID	Payment Info	Status
abcd	Ann	Mary	Update
cbdg	Bob	John	Update
bhju	Carris	Pat	Update

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HOUSE SHARE

Home	Services	Reservations	Expenses	Payments	Logout
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Manage(View/Delete Expenses)

Expense #	Description	Amount	Action
1	Delete
2	Delete
3	Delete

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HOUSE SHARE

Home

Services

Reservations

Expenses

Payments

Logout



Manage(Add/Update Expenses)

Details

Expense ID:

Amount:

Description:

ADD

UPDATE

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HOUSE SHARE

Home

Services

Reservations

Expenses

Payments

Logout



Manage(View/ Delete Reservations)

Res erv ati on #	R o o m ID	Occu pant ID	No. of Occu pant s	Dat e Fro m	Dat e To	Action
1	10	Delete
2	20	Delete
3	30	Delete

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HOUSE SHARE

Home	Services	Reservations	Expenses	Payments	Logout
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Manage(Add/Update Reservations)

Details

Reservation ID:

No. of Occupants:

Date From:

Date To:

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HOUSE SHARE

Home	Services	Reservations	About	Contact Us	Logout
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Manage(View/ Delete Payments)

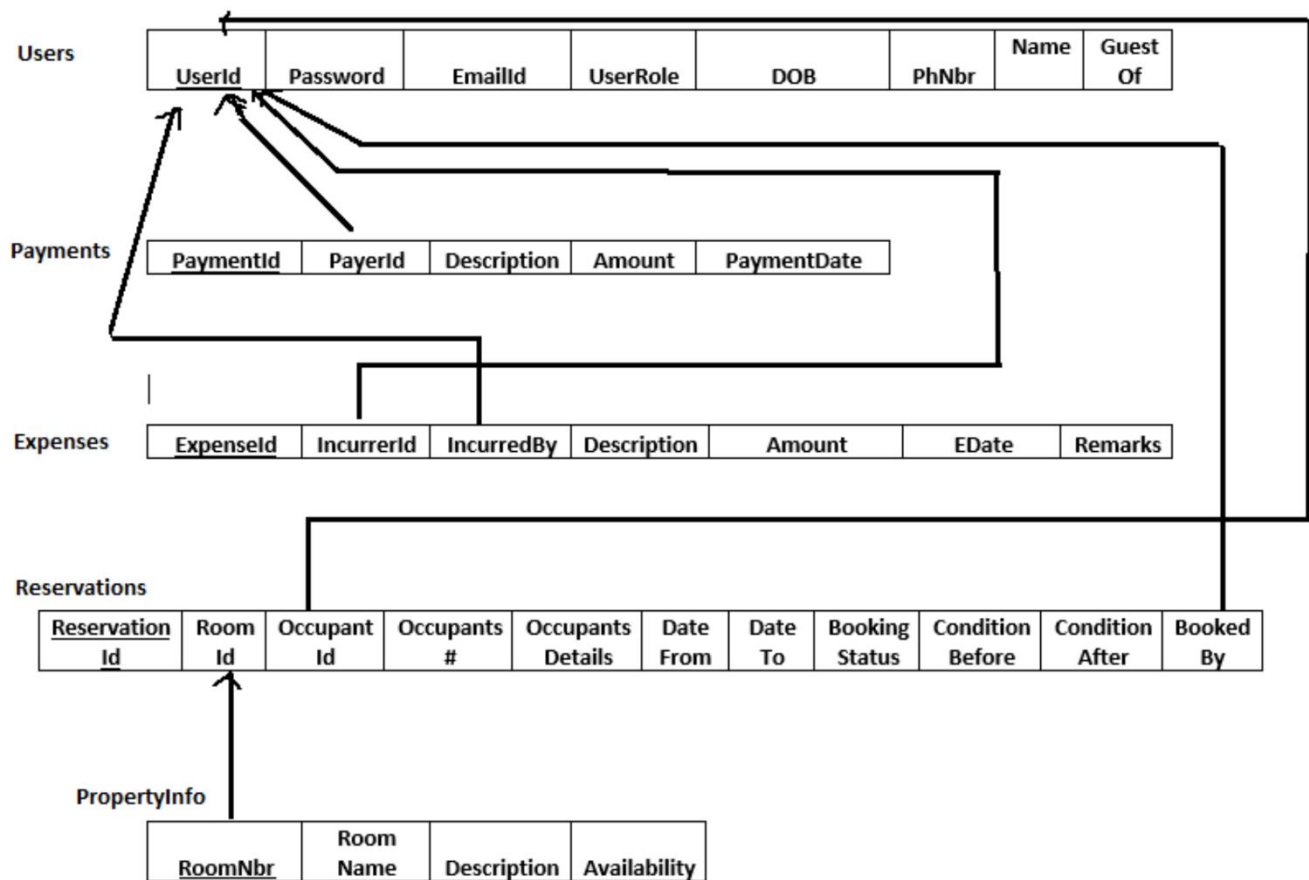
Payme nt #	PayerID	Descrip tion	Amou nt(\$)	Action
1	123	1000	Delete
2	Delete
3	Delete

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HOUSE SHARE					
Home	Services	Reservations	About	Contact Us	Logout
		Manage(Add/ Update Payments)			
		Details			
		Payment ID: <input type="text"/>			
		Payer ID: <input type="text"/>			
		Amount: <input type="text"/>			
		Description: <input type="text"/>			
		<input type="button" value="ADD"/> <input type="button" value="UPDATE"/>			
Copyright © 2018 SCU					

HOUSE SHARE					
Home	Services	Reservations	About	Contact Us	Logout
		Admin Login(Manage Users)			
		<input type="button" value="Add New Users"/>			
		<input type="button" value="View Users"/>			
		<input type="button" value="Delete Users"/>			
		<input type="button" value="Update Existing Users"/>			
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Database Schema:



Initial data:

Users:

UserId	Password	EmailId	UserRole	DOB	PhNbr	Name	GuestOf
axp8508	hello123	ofc.anurag@gmail.com	owner	12/20/1992	6823139019	Anurag	
gue2090	hehe	guest.notinterested@gmail.com	guest	04/06/1897	6023768877	Batman	axp8508
amm8833	rofl	abc.xyz@gmail.com	owner	6/2/1995	9876533211	Abhi	
gue4545	abz21	gue45@gmail.com	guest	24/04/1995	1233322280	Robin	amm8833
gue0070	cool65	gue65@example.com	guest	19/05/1996	9876789878	Joker	axp8508
som8899	hmm90	som99@gmail.com	owner	10/2/1990	5656565656	soham	

gue9900	yahoo99	yahoo@gmail.com	guest	11/11/1991	4343434343	sarkar	som8899
gue1166	howyoudoing	gue11@example.com	guest	13/08/1995	9090909090	chris	som8899
admin	admin	admin@noonemesses.com	admin	04/06/1898	7673487698	Admin	

Payments:

<u>PaymentId</u>	<u>PayerId</u>	<u>Description</u>	<u>Amount</u>	<u>PaymentDate</u>
P74629	axp8508	Paint	1000	3/4/2018
P74630	axp8508	lightbulb	100	3/4/2018
P74631	amm8833	Paint	80	3/4/2018
P74632	amm8833	Paint	90	3/4/2018
P74633	axp8508	lightbulb	10	3/4/2018
P74634	som8899	lightbulb	100	4/2/2018
P74635	amm8833	Paint	90	4/2/2018
P74636	axp8508	doorknob	80	4/2/2018
P74637	amm8833	Paint	90	4/2/2018
P74638	amm8833	lightbulb	60	4/2/2018

Expenses:

<u>ExpenseId</u>	<u>IncurrerId</u>	<u>IncurredBy</u>	<u>Description</u>	<u>Amount</u>	<u>EDate</u>	<u>Remarks</u>
E8055	axp8508	axp8508	Paint	1000	3/2/2018	
E8056	amm8833	amm8833	paint	90	3/3/2018	

Reservations:

<u>Reservation Id</u>	<u>Room Id</u>	<u>Occupant Id</u>	<u>Occupants #</u>	<u>Occupants Details</u>	<u>Date From</u>	<u>Date To</u>	<u>Booked By</u>	<u>Current Status</u>
R2067	103	gue2090	2	Batman,WonderWoman	3/3/2018	3/4/2018	axp8508	InProgress
R2068	201	amm8833	1	abhishek	4/5/2018	8/5/2018	amm8833	Booked
R2069	202	gue4545	3	something,something	3/3/2018	3/4/2018	axp8508	InProgress
R2070	203	som8899	2	thor, hulk	4/5/2018	8/5/2018	amm8833	Booked

PropertyInfo table:

RoomNbr	Room Name	Description	Availability
101	Bedroom	7x6	Y
102	Hall	7x6	Y
103	MasterBedrooom	7x6	N
201	MasterBedrooom	7x6	Y
202	Hall	7x6	N
203	Bedroom	7x6	Y
204	Hall	7x6	Y
301	Bedroom	7x6	Y
302	MasterBedrooom	7x6	Y
0	Activity Room	7x6	Y

PROJECT MEETING GA₁

MINUTES

MEETING CALLED BY	All members
TYPE OF MEETING	Discussion for topic
FACILITATOR	Anurag, Dhruvi
NOTE TAKER	Diana, Abhishek
TIMEKEEPER	Varun
ATTENDEES	Anurag, Abhishek, Dhruvi, Diana, Varun

Agenda topics

FEB 06, 2018

5:00PM

TOPIC: SHARING COMMON HOUSE

DISCUSSION	About how the system should work, what are the functionalities that should be included, getting overview of the system		
Creating a system with functionalities of login, checking for availability, whether to include about resource allocation is not yet decided			
CONCLUSIONS	After this meeting we all have a brief idea about the system should work, but will have to confirm with professor about whether to include the resource allocation		
About what exactly should be inculcated			
ACTION ITEMS		PERSON RESPONSIBLE	DEADLINE
Cover Page		Varun, Anurag, Diana	02/09/2018

FEB 08, 2018

2:00PM

TOPIC: SHARING COMMON HOUSE

DISCUSSION	After discussion with professor, we all are clear about how the system will need to function. We need to build a system with a functionality of booking days of stay, also setting an option of returning the availability if one does not want to stay for the number of days available		
	We are going to have also a module or a facility where we can exchange or transfer the days of stay		
Also notify them about their approaching deadline, or their coming days for stay.			
CONCLUSIONS	Our aim will be to create a user friendly website which can be easily used among the inherits to know their available days of stay		
ACTION ITEMS		PERSON RESPONSIBLE	DEADLINE
Abstract		Abhishek, Anurag, Dhruvi	02/09/2018

REFERENCES USED	
ATTENDEES	Anurag, Abhishek, Dhruvi, Diana, Varun
SPECIAL NOTES	We have to submit our cover page, Abstract on Feb 11 so all work should be completed before that

PROJECT MEETING GA₂

MINUTES

MEETING CALLED BY	All members
TYPE OF MEETING	Discussion for GA2 deliverables
FACILITATOR	Varun, Diana
NOTE TAKER	Dhruvi, Abhishek
TIMEKEEPER	Anurag
ATTENDEES	Anurag, Abhishek, Dhruvi, Diana, Varun

Agenda topics

Mar 03, 2018 11:00AM 45mins
Requirements and deliverables TOPIC: SHARING COMMON HOUSE

DISCUSSION	Updated project requirement for compliance.	
	1. Changes required to one-page abstract of GA1.	
	2. Understanding the new requirements and modifications needed.	
	3. Possible scenarios and use case discussion for URL structure.	
	4. Non-compliance issues of GA-1 and further action on listed items.	
	5. Database tables required and the need to do relational mapping.	
	6. Confusion regarding Page Layout requirements and possible actions & outcomes.	
CONCLUSIONS		
	1. Task allocation.	
	2. Plan for Action items of GA-2 deliverables.	
ACTION ITEMS	PERSON RESPONSIBLE	DEADLINE
Cover Page	Varun	03/04/2018
Page Layout Draft	Diana	03/04/2018
URL Structure	Abhishek, Dhruvi	03/04/2018
Updated GA-1 One Page	Anurag	03/04/2018
Database Schema	Anurag	03/04/2018
Minutes of Meeting	Dhruvi, Varun	03/04/2018