

# **Eagles**Housemate Manager

# **Team Members**

219046379, Mpendulo Mthembu

Implementation & Deployment Document

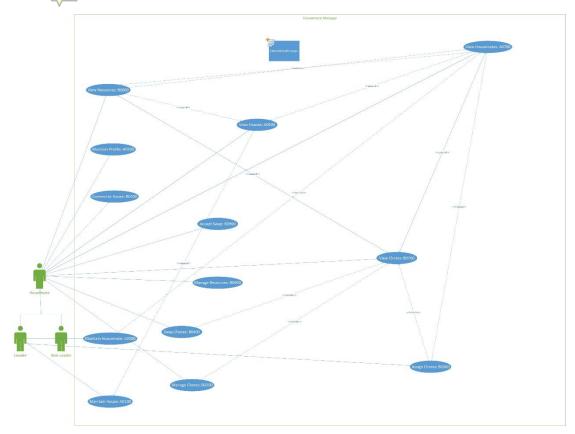
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# **TABLE OF CONTENTS**

1	FUNC	TIONAL	REQUIREMENTS	3
	1.1	Use Ca	ase Model	3
	1.2	Use Ca	ase Glossary and Implementation Responsibilities	4
2	USE (	CASE NA	ARRATIVES & UI DESIGNS	5
	2.1	Team	UI Guidelines	5
	2.2	Naviga	ation & Control	5
	2.3	Team 2.3.1	Design for Login / Logout	
		2.3.2	Dashboard / Landing Page / Main Page	7
	2.4	UI Des 2.4.1	signs & Use Case Narratives for the Implemented Use Cases  Designed by Mpendulo Mthembu	
		2.4.2	Designed by Mpendulo Mthembu	13
		2.4.3	Designed by Mpendulo Mthembu	15
		2.4.4	Designed by Mpendulo Mthembu	18
		2.4.5	Designed by Mpendulo Mthembu	20
		2.4.6	Designed by Mpendulo Mthembu	24
3	DATA	REQUIF	REMENTS	29
	3.1	Implen	nentation Ready Class Diagram	29
	3.2	Implen	nented database structure	30
	3.3	Test D	Pata	31
4	TECH	NICAL F	REQUIREMENTS	33
	4.1	Systen	m Environment	33
	4.2	Start-u	ıp Instructions	33
	4.3	Logins	s & Passwords	33

# 1 FUNCTIONAL REQUIREMENTS

# 1.1 Use Case Model



# 1.2 Use Case Glossary and Implementation Responsibilities

Team Member Responsible: Mpendulo Mthembu					
Use Case Id	Use Case Name				
A0200	Maintain Housemates				
A0300	Maintain Profile				
B0200	Manage Chores				
B0300	Assign Chores				
Reports / Views / Queries					
A0700	View Housemates				
B0800	View Resources				

### 2 Use Case Narratives & UI Designs

# 2.1 Team UI Guidelines

The design of the system is minimalistic and does not use unnecessary UI objects or colors but includes those elements that are necessary for the user to perform their operations. The system has a dashboard which allows users to access all other functions of the system unless otherwise restricted. Functions such as to maintain profile or to assign chores are accessed by selecting the respective link on the dashboard which triggers a window to pop up which allows the user to perform that function.

#### Dashboard

The dashboard is the first page that the user sees after having registered/logged-in when opening the system and is where all links to other functions of the system are. The user can only select those links to which they have access to. For instance, only a housemate leader can add and/or remove other housemates therefore the Maintain Housemates page is restricted to leader housemates.

#### 2.2 Navigation & Control

#### **Navigation & control**

The system uses tabs which separates, and groups related functions without the user having to leave a particular page. The system also uses list controls and check boxes for functions that require the use of information that already exist for easy retrieval and access.

#### **Support for User Efficiency**

The system's simplicity minimizes clustering thus ensuring efficient use of the system, use of UI objects that optimizes user's recognition rather than recall reduces users' time spent on any part of the system.

#### Recognition rather than recall

The system uses list controls and similar UI objects so that the user selects from required data which saves the user the time and effort of remembering detail required to perform database queries. Tooltips and default values are also used in appropriate UI objects.

#### **Aesthetic Design**

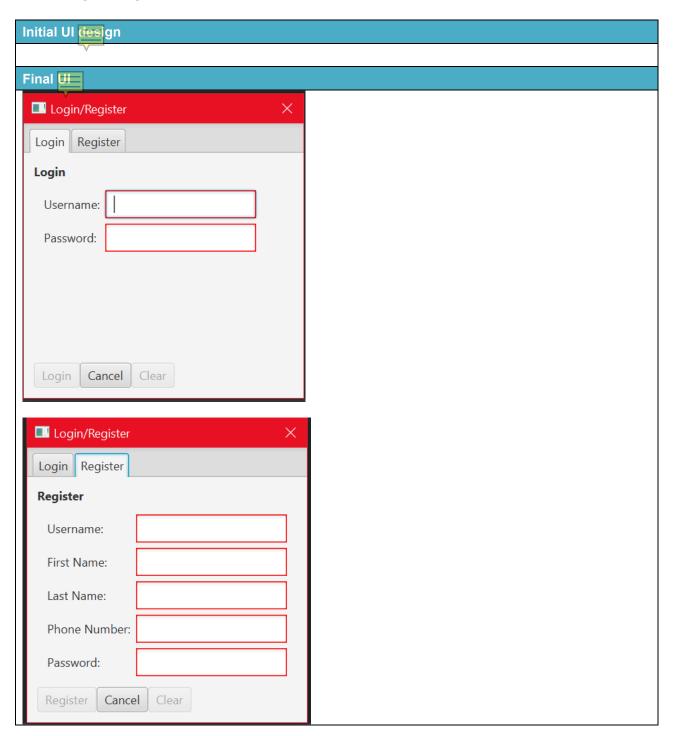
The user interface uses minimalistic UI objects and colors and makes effective use of spaces around UI objects which optimizes the user's use of the system.

#### **Error prevention / recovery**

Confirmation dialog boxes are used to make sure a user performed what they intend to do. The user of UI objects as list controls or similar so that the user selects required detail to reduce input-based mistakes. The system highlights risky operations to the user for instance by using a red border on the remove/delete button of housemates/chores etc.

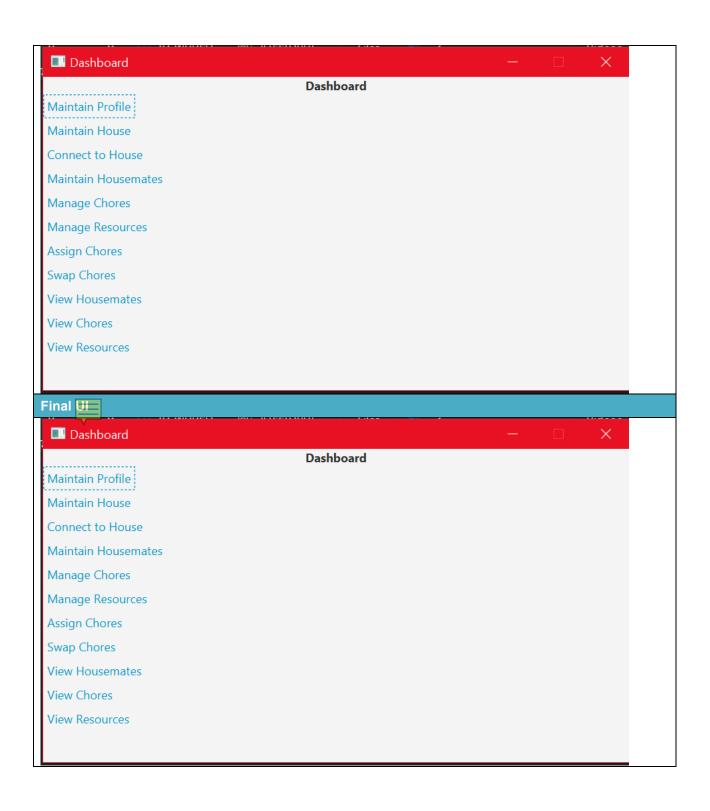
# 2.3 **Tea**m Design for

### 2.3.1 Login / Logout



### 2.3.2 Dashboard / Landing Page / Main Page

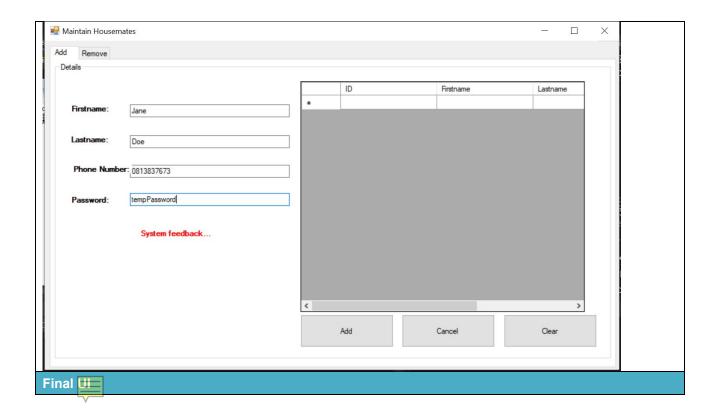




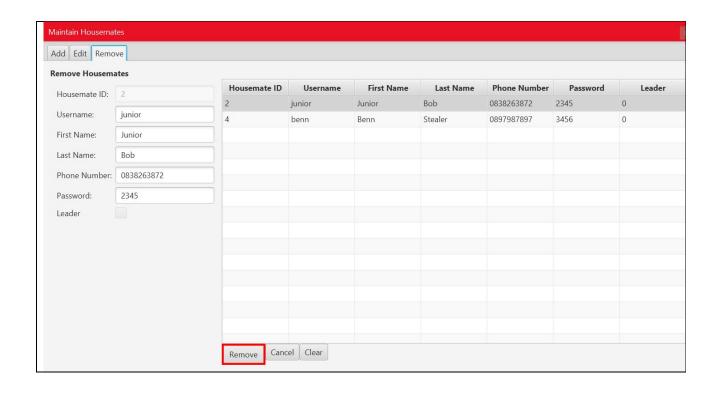
# 2.4 UI Designs & Use Case Narratives for the Implemented Use Cases

# 2.4.1 Designed by Mpendulo Mthembu

Use Case ID	Use Case Name			
A0100	Maintain Housemates	S		
Primary Business Acto	ors	Other participating Actors		
Housemate (Leader)				
Description	A house leader can a	dd/edit/remove a housemate from a particular house.		
Pre-Conditions A connection must a housemate must be		already have been made to a particular house. The a house leader.		
Triggers A housemate select		to maintain housemates.		
Post-Conditions	A housemate would t	hen be added/edited/removed.		
Basic Flow of Events	Maintain housemates:  1. A maintain housemates page is displayed  Add:  1.1 The housemate selects the add tab 1.2 The add housemate tab is displayed 1.3 The housemate enters the housemate details. 1.4 The housemate selects to add the housemate			
Alternate Flow of events	1.5 Appropriate system feedback is displayed.  Edit:  1.1 The housemate selects the edit tab  1.2 The edit housemate tab is displayed.  1.3 The housemate selects a housemate from the table.  1.4 The housemate selects to edit housemate.  1.5 Appropriate system feedback is displayed.  Remove:  1.1 The housemate selects the remove tab  1.2 The remove housemate tab is displayed.  1.3 The housemate selects a housemate from the table.  1.4 The housemate selects to remove housemate.  1.5 A confirmation dialog is displayed.			
Initial UI <mark>desi</mark> gn				

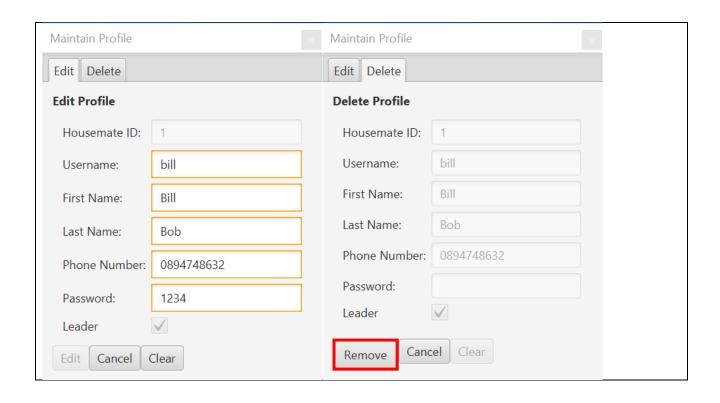






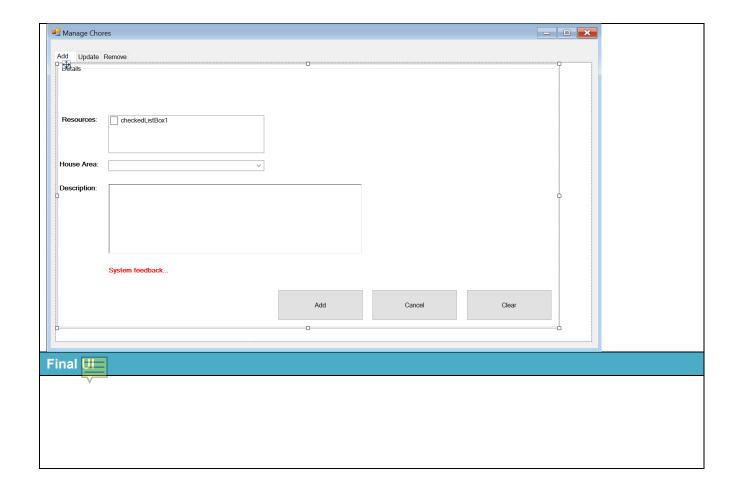
# 2.4.2 Designed by Mpendulo Mthembu

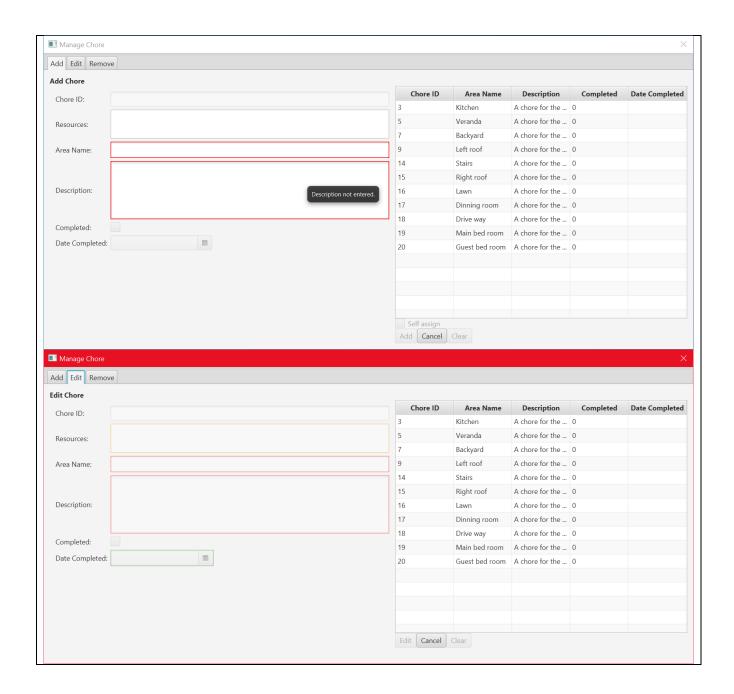
Use Case ID	Use Case Name	Use Case Name			
A0300	Maintain Profile				
Primary Business A	Actors	Other participating Actors			
Housemate (Non-Leader)		Housemate (Leader)			
Description A housemate can up		odate/delete their own profile.			
Pre-Conditions	A profile must alread	ly exist			
Triggers	A housemate selects	s to maintain their profile.			
Post-Conditions	Conditions A housemate updates/deletes their profile.				
Basic Flow of Events	1. The mainta Update: 1.1 The housemate s 1.2 The edit profile ta 1.3 A housemate cha 1.4 A housemate the	Maintain profile:  1. The maintain profile page is displayed. Update: 1.1 The housemate selects the update tab. 1.2 The edit profile tab is displayed. 1.3 A housemate changes relevant detail. 1.4 A housemate then selects to update their profile. 1.5 Appropriate system feedback is displayed.			
Alternate Flow of events	1.2 The delete profile 1.3 A housemate the 1.4 A confirmation di	en selects to delete their profile.			
Initial UI design					
Maintain Profile					
Aud Update Delete					
Firstname:  Lastname:  Phone Number:					
Password: System feed	iback				
		Add Cancel Clear			
<u> </u>					

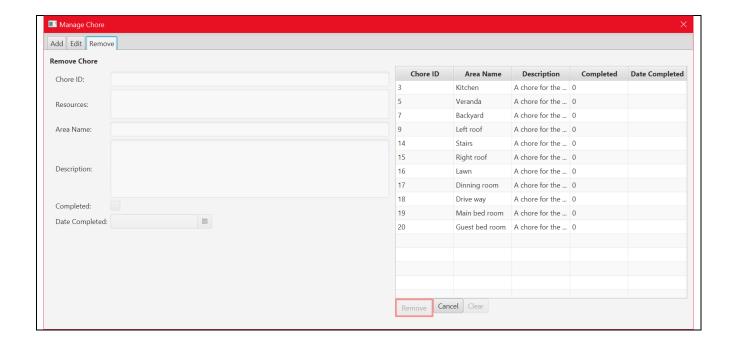


# 2.4.3 Designed by Mpendulo Mthembu

Use Case ID Use Case Name				
B0200	Manage Chores			
Primary Business Actor	rs	Other participating Actors		
Housemate (Non-Leader	)	Housemate (Leader)		
Description	having been completed A housemate leader	d/update/remove their chores, such as marking the chore as ed in case of editing.  can assign the chore to themselves (self-assign) as they g" chore which can be later assigned.		
		can edit chores assigned to other housemates.		
Pre-Conditions	A connection must al	ready have been made to a particular house.		
Triggers	A housemate selects	to manage chores.		
Post-Conditions	A chore is then added	d/updated/removed.		
Basic Flow of Events	Add: 1.1 The how 1.2 The add 1.3 A house 1.4 A house	chores page is displayed.  usemate selects the add tab. d chore tab is displayed. emate enters the relevant detail. emate then selects to add a chore. riate system feedback is displayed.		
Alternate Flow of events	relects the update tab. It is displayed.			
Initial UI design				

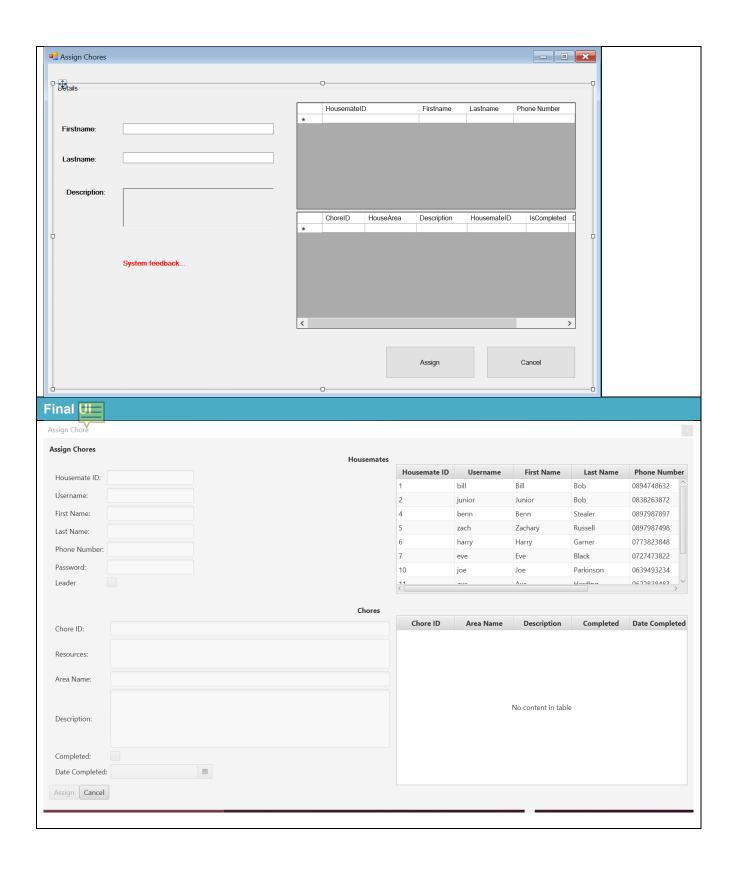






### 2.4.4 Designed by Mpendulo Mthembu

Use Case ID	Use Case Name			
B0300	Assign Chores	ssign Chores		
Primary Business Actor	rs	Other participating Actors		
Housemate (Leader)				
Description	A house leader can a	assign chores to a particular housemate.		
		ready have been made to a particular house. The housemate der. A chore must already exist and unassigned to another		
Triggers	A housemate selects to assign house chores.			
Post-Conditions Chore is then assign		ed to a particular housemate.		
Basic Flow of Events	The house     to assign to     The house	chores page is displayed. mate selects chore(s) and a housemate from the lists o a housemate. mate selects to assign chore(s). e system feedback is displayed.		
Alternate Flow of events	, , ,	, ,		
Initial UI design				



# 2.4.5 Designed by Mpendulo Mthembu

Use Case ID	Use Case Name			
A0700 View Housemates				
Primary Business Actors		Other participating Actors		
Housemate (Leader)		Housemate (Non-Leader)		
		ew housemates and has the option to view related detail resources bought using B0700 and B0800 respectively.		
Pre-Conditions A connection must al		lready have been made to a particular house.		
Triggers	A housemate selects	s to view housemates.		
Post-Conditions	A table of housemate	es and the option to view related details is displayed.		
Basic Flow of Events 1. A view h		usemates page is displayed.		
Alternate Flow of events	1.1 Housemate chousemate chousemate chousemate chousemate chousemate researched	Housemate selects to view that housemate's chore A view housemate chores page is displayed.		
Initial UI <mark>des</mark> ign				
₹ View Housemates				
HousemateID	Firstname Lastname	Phone Number		
*				



Housemate ID	Username	First Name	Last Name	Phone Number	Password	Leader
1	bill	Bill	Bob	0894748632	1234	1
2	junior	Junior	Bob	0838263872	2345	0
4	benn	Benn	Stealer	0897987897	3456	0

Chore ID	Area Name	Description	Completed	<b>Date Completed</b>
9	Roof	Roof chore	0	

Resource Name	Is Finished	Housemate ID
mop	0	1
sunlight	0	1
w Housemates	View Chores	Cancel

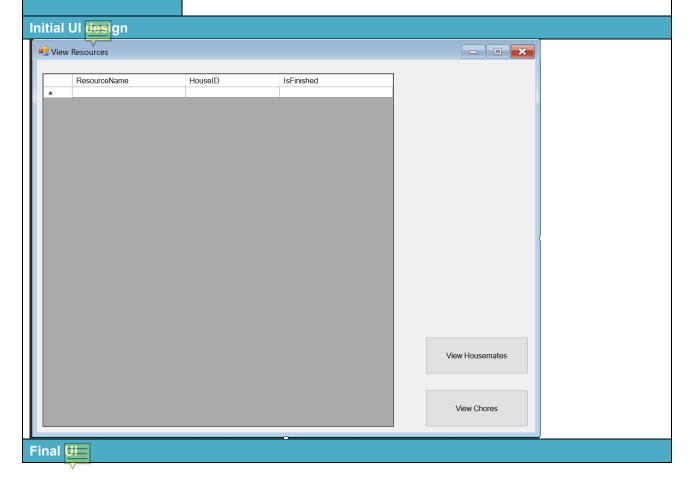
# 2.4.6 Designed by Mpendulo Mthembu

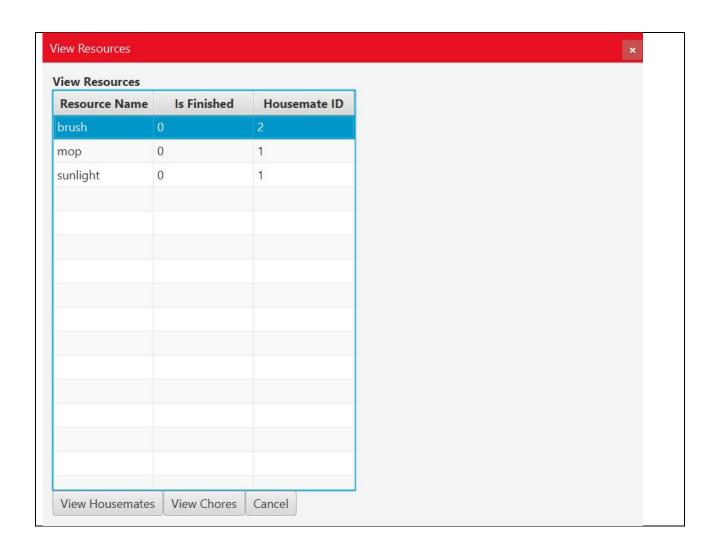
Use Case ID	Use Case Name		
B0800	View Resources		
Primary Business Actors		Other participating Actors	
Housemate (Leader)		Housemate (Non-Leader)	
Description as chores associated		ew resource and has the option to view related details such d with that resource and housemate who bought that 00 and A0700 respectively.	
Pre-Conditions	A connection must already have been made to a particular house.		
Triggers	A housemate selects to view resources.		
Post-Conditions A table of resources		and the option to view related detail is displayed.	
Basic Flow of Events	sources page is displayed.		
Alternate Flow of events	View resources: 1.1 Housemates selects a resource from table  View resource's chores: 1.1.1 Housemate selects to view that chores that use that resource		

1.1.2 A view resource chores page is displayed.

View resource's housemate:

- 1.2.1 Housemate selects to view housemate who bought that resource.
- 1.2.2 A view resource housemate page is displayed.



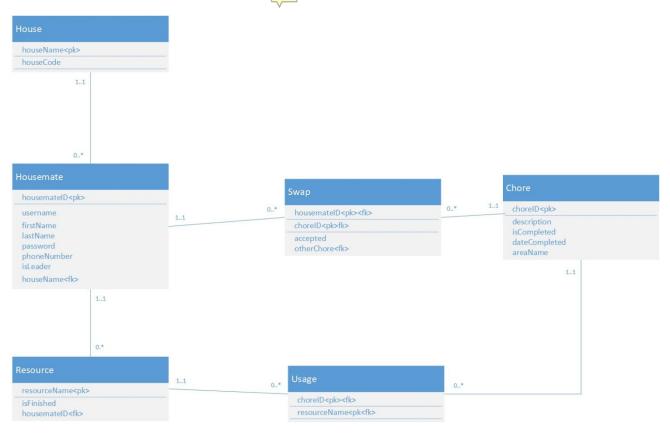


Chore ID	Area Name	Description	Completed	<b>Date Completed</b>
3	Kitchen	Kitchen chore	0	
7	Backyard	backyard chore	0	

Housemate ID	Username	First Name	Last Name	Phone Number	Password	Leader
2	junior	Junior	Bob	0838263872	2345	0

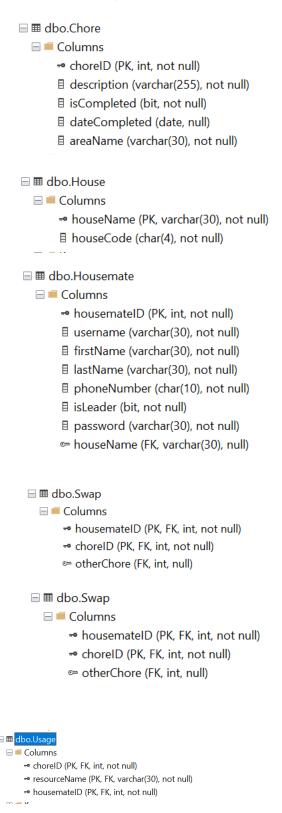
### 3 DATA REQUIREMENTS

# 3.1 Implementation Ready Class Diagram



### 3.2 Implemented database structure

We have used MS SQL to create our database in. The name of the database for our project is HMS4



# 3.3 Test Data

			С	hore						
	1	2	3	4	5	6	7	8	9	10
choreID	3	5	7	9	14	15	16	17	18	19
description	A chore for the kitchen.	A chore for the veranda	A chore for the backyar d.	A chor e for the left side of the roof.	A chor e for the stairs	A chor e for the right side of the roof.	A chor e for the lawn.	A chore for the dinnin g room.	A chor e for the drive way.	A chor e for the main bed room
isCompleted	0	0	0	0	0	0	0	0	0	0
dateComplete d	NULL	NULL	NULL	NUL L	NUL L	NUL L	NUL L	NULL	NUL L	NUL L
areaName	Kitchen	Verand a	Backyar d	Left roof	Stair s	Right roof	Law n	Dinnin g room	Drive way	Mad bed room

				Но	usemat	е				
	1=	2	3	4	5	6	7	8	9	10
housem	1	2	4	5	6	7	10	11	12	13
ateID										
userna	bill	junior	benn	zach	harry	eve	joe	ava	mad	max
me										
firstNa	Bill	Junior	Benn	Zach	Harry	Eve	Joe	Ava	Mad	Max
me										
lastNam	Bob	Bob	Stealer	Russel	Garner	Black	Parkin	Hardin	Reynol	Ryan
е							son	g	ds	
phoneN	08947	08382	08979	08979	07738	07274	06394	06228	07828	08738
umber	48632	63872	87897	87498	23848	73822	93234	38483	37473	28732
isLeade	1	0	0	0	0	0	0	0	0	0
r										
passwo	1234	2345	3456	78973	dhjds	eoiuwe	iowe79	987ewt	iyiigy*	98432
rd				4		8	8	yug	&	
houseN	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL
ame										

	Resource											
2 3 4 5 6 7 8 9 10												
resourceName	Bags	Bags	Bags	Bin	Bin	Broom	Broom	Broom	Broom	Broom		
isFinished	0	0	0	0	0	0	0	0	0	0		
housemateID	4	6	10	7	13	1	4	10	11	12		

	<u>Swap</u>											
2 3 4 5 6 7 8 9 10												
housemateID	1	2	2	4	5	6	7	10	11	12		
choreID	3	7	14	9	18	5	16	15	17	19		
otherChore	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL		

Usage										
1	2	3	4	5	6	7	8	9	10	

choreID	3	9	9	14	15	15	16	17	19	19
resourceName	Broom	Bags	Broom	Brush	Bags	Broom	Brush	Bags	Broom	Bin
housemateID	1	4	4	2	10	10	7	11	12	12

### **4 TECHNICAL REQUIREMENTS**

# 4.1 System Environment

The system runs on Windows 10. The WRR.bat file used to run the system uses the JAVA\_HOME environment variable therefore the operating system should have java installed and the JAVA\_HOME environment variable set.

### 4.2 Start-up Instructions

The system can be run by double clicking the *WRR.bat* file which is located at *WRR\out\artifacts\WRR\_jar* within the project.

## 4.3 Logins & Passwords

	housemateID	username	firstName	lastName	phoneNumber	isLeader	password	houseName
1	1 ADMIN	bill	Bill	Bob	0894748632	1	1234	NULL
2	2	junior	Junior	Bob	0838263872	0	2345	NULL
3	4	benn	Benn	Stealer	0897987897	0	3456	NULL
4	5	zach	Zachary	Russell	0897987498	0	789734	NULL
5	6	harry	Harry	Garner	0773823848	0	dhjds	NULL
6	7	eve	Eve	Black	0727473822	0	eoiuwe8	NULL
7	10	joe	Joe	Parkinson	0639493234	0	iowe798	NULL
8	11	ava	Ava	Harding	0622838483	0	987ewtyug	NULL
9	12	mad	Maddison	Reynolds	0782837473	0	iyiigy*&	NULL
10	13	max	Max	Ryan	0873828732	0	98432	NULL