GROUP ASSESSMENT ITEM COVER SHEET

Student Numbers:		Emails	:	FIRST NAMES	FAMIL	Y / LAST NAMES			
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Course	Code					Co	urse Title		
SE	G G	2	1	3	0		Systems analysis a	nd design	
(Example))					(Example)			
АВ	C D	1	2	3	4	Intro to Universit	V		
Campus o	of Study:					Callaghan	(eg Callaç	ghan, Ouri	mbah, Port Macquarie)
Assessme	ent Item	Title	»: _			Assignment 1	Due Date	e/Time:	12/04/19
Tutorial Gr	oup (If a	ppli	cab	le):			Word Count (If app	licable):	
Lecturer/T	utor Nam	ne:	_						
Extension	Granted	:			Yes	No	Granted Until:		
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requir	ed to pass	all v	vritte	n ass	signments ir	We understand that a minimulate the School of Education; ar important information related	nd we have read and under	stood the Scl	nool of Education Course
	We declare that this assessment item is our own work unless otherwise acknowledged and is in accordance with the University's Student Academic Integrity Policy (http://www.newcastle.edu.au/about-uon/governance-and-leadership/policy-								
	We certif	y tha	at this not g	ass jiven	essment ite a copy or h	D09/1899P) m has not been submitted prayers shown a copy of this ass	reviously for academic creasessment item to another s	dit in this or a student enrol	any other course. We certify led in the course, other than
	We acknowledge that the assessor of this assignment may, for the purpose of assessing this assignment: Reproduce this assessment item and provide a copy to another member of the Faculty; and/or Communicate a copy of this assessment item to a plagiarism checking service (which may then retain a copy of the item on its database for the purpose of future plagiarism checking). Submit the assessment item to other forms of plagiarism checking.								
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SENG2130 - ASSIGNMENT 1

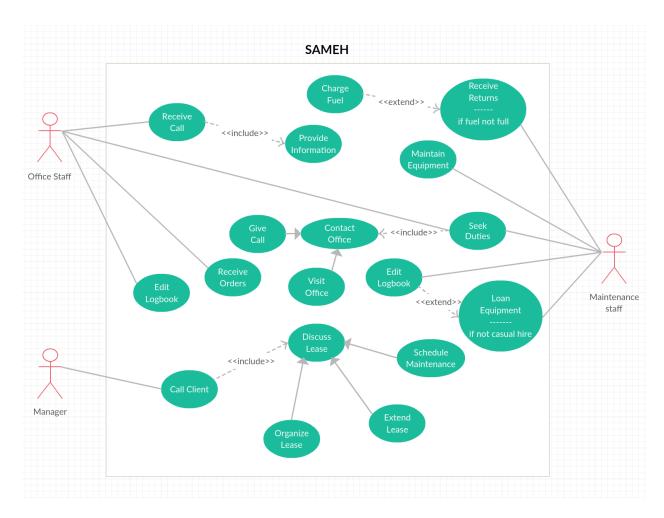
C3279166, C3282229, C3286819, C3275916

Systems Analysis and Design

Actors: Manager, Office Staff, Maintenance Staff

Use Cases:

- 1. Manager -> Calls -> Organizes Lease Terms and Costs
 - a. Organizes Lease Terms and Costs <<extends>> Organizes Leases ->
 Extends Leases -> Schedules Maintenance
- 2. Office Staff -> Calls -> Gives Equipment Information
- 3. Office Staff -> Edit Logbook
- **4.** Maintenance Staff -> Call/Visit -> Office Staff
- **5.** Maintenance Staff -> Maintain Equipment
- 6. Maintenance Staff -> Receives Item
- 7. Office Staff -> Receives Orders -> Edits Logbook
- 8. Maintenance Staff -> Loan Equipment
- 9. ///
- 10. ///



Use Case Description:

Calls: When a staff member receives or gives phone calls

Discuss Lease: The Manager discusses the terms and costs of equipment leasing to

customers

Organizes Leases: The Manager organizes leases with the customer

Extends Leases: The Manager organizes the extension of equipment leases with the customer

Schedules Maintenance: The Manager organizes the servicing of leased equipment with customers

Gives Equipment Information: Customers receive information about equipment that can be loaned out from SAMEH

Edit Logbook: Office Staff adds information regarding loaned equipment in a physical logbook in the office

Call/Visit: Maintenance Staff call/visit the main office to enquire about what jobs are waiting for them

Maintain Equipment: Maintenance Staff fix/service equipment that are broken or require a scheduled maintenance check

Receives Item: Staff receive equipment from customers

Receives Orders: Office Staff receive several orders from many customers

Loan Equipment: Maintenance Staff will loan out equipment to regular customers

without informing the Office Staff

Use Case Name	Receive Call		
Brief Description	Office Staff receives an incoming phone call from client		
Actors	Office Staff		
Related Use Cases	< <include>> Provide Inform</include>	nation	
Entry Condition	Phone call received		
Exit Condition	Phone call ends		
Flow of Events	Actors	System	
	 Office Staff picks up phone Office Staff answers enquiry 	1.1 receives enquiry 2.1 receives feedback 2.2 call ends	
Exception condition	1.1 No enquiry is given a. Customer doesn't provide an enquiry to an Office Staff member b. The Office Staff member ends call 2.1 Customer has multiple enquiries a. Office Staff member continues to provide information to the customer about their enquiry until all enquiries are answered		

Use Case Name	Provide Information		
Brief Description	Office staff provides information for an enquiry		
Actors	Office Staff		
Related Use Cases			
Entry Condition	Information is needed for a	n enquiry	
Exit Condition	Enquiry is handled		
Flow of Events	Actors	System	
•	Office Staff provides information	1,1 enquiry is answered	
Exception condition	1.1 Office Staff does not know required information a. Seeks information from other Staff b. Seeks information other sources c. Apologizes if not enough information is found		

Use Case Name	Edit Logbook		
Brief Description	Office Staff updates office logbook		
Actors	Office Staff		
Related Use Cases			
Entry Condition	Office Staff has casual h	nire details	
Exit Condition	Logbook is up-to-date		
Flow of Events	Actors	System	
!	1. Office Staff enters details into the office logbook.	1.1 Office logbook updated	
Exception condition	1.1 Casual hire details are not complete a. Office Staff resolves the missing details. b. Office Staff cannot resolve missing details and does not register details into the logbook.		

Use Case Name	Receive Orders		
Brief Description	Office Staff receive several orders from many customers		
Actors	Office Staff		
Related Use Cases			
Entry Condition	Office Staff is contacted by	Client	
Exit Condition	Orders are processed		
Flow of Events	Actors	System	
	Office Staff enters the order into the system	1.1 Receives order information	
Exception condition	Office Staff member b. Office Staff member the customer if they details required 1.2 Wrong information is gi a. The customer gives Office Staff member b. Office Staff member customer to get in c c. The Office Staff mer customer details 1.3 Equipment is already o a. Office Staff informs	to loan details to give to the recommunicating with them rends communication with cannot provide any of the liven incorrect details to the rwill call or email the ontact with them mber receives correct on loan customer that the equested is already on	

Use Case Name	Call client		
Brief Description	Manager contacts clients in regards to a loan		
Actors	Manager		
Related Use Cases	< <includes>> Discuss Loan</includes>		
Entry Condition	Manager calls client.		
Exit Condition	Call is terminated		
Flow of Events	Actors	System	
	Manager contacts client Manager discusses loan details	1.1 phone call is picked up 2.1 client lease-related matter is discussed. 2.2 call ends	
Exception condition	1.1 Incorrect contact details a. Manager rings the wrong number or the contact number is wrong in SAMEH's phonebook b. Manager asks Office Staff to check phone records to see what the correct number is		

Use Case Name	Receive Returns		
Brief Description	Maintenance Staff receive equipment from customers		
Actors	Maintenance Staff		
Related Use Cases	< <extend>> Charge Fuel</extend>		
Entry Condition	Equipment is received by S	Staff	
Exit Condition	Deposit is returned to clien	t	
Flow of Events	Actors	System	
	Staff receive equipment Staff check fuel level 3. Staff return deposit	2.1 fuel charge is calculated 2.2 deposit is withdrawn	
Exception condition	2.1 Staff don't check fuel level a. Sometimes Staff members don't check the fuel level upon equipment return b. Equipment is loaned back out without having full fuel		

Use Case Name	Maintain equipment		
Brief Description	Maintenance Staff perform equipment maintenance		
Actors	Maintenance Staff		
Related Use Cases			
Entry Condition	Maintenance Staff assigned maintenance task		
Exit Condition	System is notified about ma	aintenance	
Flow of Events	Actors	System	
	1.1 Staff receive request for equipment maintenance 2. Staff receive equipment from warehouse 3. Staff perform maintenance 4. Staff return equipment to warehouse	1.1 System has equipment listed for maintenance 4.1 Maintenance is marked as complete	
Exception condition	that leased it	e equipment to be returned	

Use Case Name	Loan Equipment		
Brief Description	Maintenance Staff will loan out equipment to regular customers without informing the Office Staff		
Actors	Maintenance Staff		
Related Use Cases			
Entry Condition	Client requests loan		
Exit Condition	Loan request is handled		
Flow of Events	Actors	System	
	1. Staff receive request for loan 2. Maintenance staff finalise loan of equipment	2.1 warehouse logbook is updated with loan details	
Exception condition	 2.1 Equipment is on loan already a. Staff informs customer that the equipment they've requested is already on loan b. Staff asks if the customer would like to hire any other equipment 2.2 Equipment is having maintenance work done a. Staff will inform customer that the equipment in unavailable b. Staff asks if the customer would like to hire any other equipment 2.3 Loan is casual hire, therefore warehouse logbook is not updated and office should be informed about casual hire to update their office logbook. 		

Use Case Name	Edit Logbook		
Brief Description	Maintenance Staff updates warehouse logbook		
Actors	Maintenance Staff		
Related Use Cases			
Entry Condition	Maintenance Staff has le	oan details (not casual hire)	
Exit Condition	Logbook is up-to-date		
Flow of Events	Actors	System	
!	1. Office Staff enters details into the office logbook.	1.1 Office logbook updated	
Exception condition	1.1 loan details are not complete c. Office Staff resolves the missing details. d. Office Staff cannot resolve missing details and does not register details into the logbook.		

Use Case Name	Discuss Lease		
Brief Description	The Manager discusses lease-related matter with client		
Actors	Manager		
Related Use Cases			
Entry Condition	Manager in a phone call wi	ith client	
Exit Condition	Lease-related matter has b	een discussed	
Flow of Events	Actors	System	
	Manager talks to customer	2.1 Manager and customer discuss lease-related matter. 2.2 An arrangement is made between both parties. 2.3 Call ends.	
Exception condition	2.1 Customer and Manager don't come to an agreement a. Both parties cannot come to an agreement b. An arrangement isn't made c. Communication between the Manager and Customer ends		

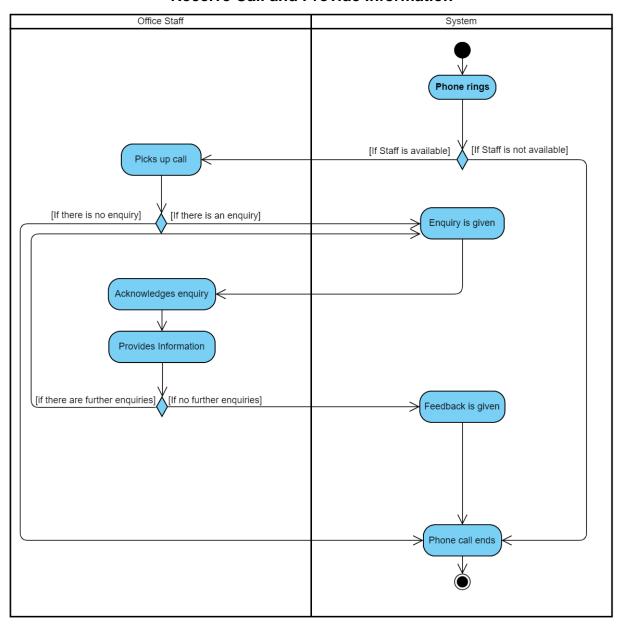
Use Case Name	Organise lease		
Brief Description	The Manager organizes leases with the customer		
Actors	Manager		
Related Use Cases	Discuss Lease		
Entry Condition	Manager in a phone call w	ith client	
Exit Condition	Lease arrangement made	or not	
Flow of Events	Actors	System	
	Manager discusses lease terms Manager writes a contract arrangement	1.1 Manager and customer come to an agreement 2.1 Manager and customer create a legal binding agreement over the leasing over equipment	
Exception condition	2.1 Customer and Manager don't come to an agreement a. Both parties cannot make an agreement b. A lease contract isn't made c. Communication between the Manager and Customer ends		

Use Case Name	Extends Lease		
Brief Description	The Manager organizes the extension of equipment leases with the customer		
Actors	Manager		
Related Use Cases	Discuss Lease		
Entry Condition	Manager in a phone call wit	th client	
Exit Condition	Loan period is extended or	not	
Flow of Events	Actors	System	
	Manager discusses lease extension	1.1 Manager determines whether an extension can be granted 1.2 Extension is granted/declined	
Exception condition	1.1 If the extension cannot be granted a. The equipment will be returned on the original date set by the two parties b. Communication between Manager and customer ends		

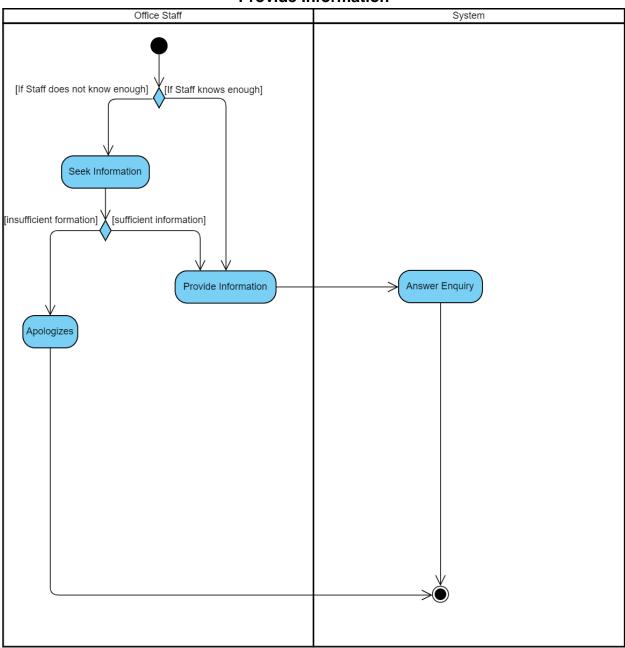
Use Case Name	Schedule maintenance		
Brief Description	The Manager organizes the servicing of leased equipment with customers		
Actors	Manager		
Related Use Cases	Discuss Lease		
Entry Condition	Equipment is on loan term		
Exit Condition	Maintenance time has bee	n scheduled or not	
Flow of Events	Actors	System	
	Manager discusses schedule of maintenance. Client brings equipment to warehouse	1.1 Manager informs customer that equipment they are loaning is in need of a service 1.2 Client and Manager organise a date to get the equipment maintained 2.1 Equipment is serviced and sent back to the client	
Exception condition	1.1 If the client and Manager cannot come up with a date to get equipment serviced a. The Manager will schedule a date which is suitable to both parties b. An alternate date is a set		

Use Case Name	Seek Duties		
Brief Description	Maintenance Staff contact the Office Staff to know what jobs are waiting and which equipment are required to be ready.		
Actors	Maintenance Staff, Office s	staff	
Related Use Cases	< <include>> Contact Office</include>	е	
Entry Condition	Staff call/contact office		
Exit Condition	Staff are given required inf	formation	
Flow of Events	Actors	System	
	Maintenance Staff contacts Office Staff Both parties communicate	1.1 Contact is done by calling or visiting Office 2.1 Maintenance Staff ask the Office Staff is there are any jobs waiting and when they need to be serviced by 2.2 Office Staff provide tasks for that require completion 2.3 Maintenance Staff return to the warehouse	
Exception condition	 2.1 If phone call is not answered a. Maintenance staff visits Office and asks for jobs in person 2.2 If there are no jobs to do a. Office Staff inform the Maintenance Staff that there is no jobs that require completion b. Maintenance Staff return to the warehouse/end the call 		

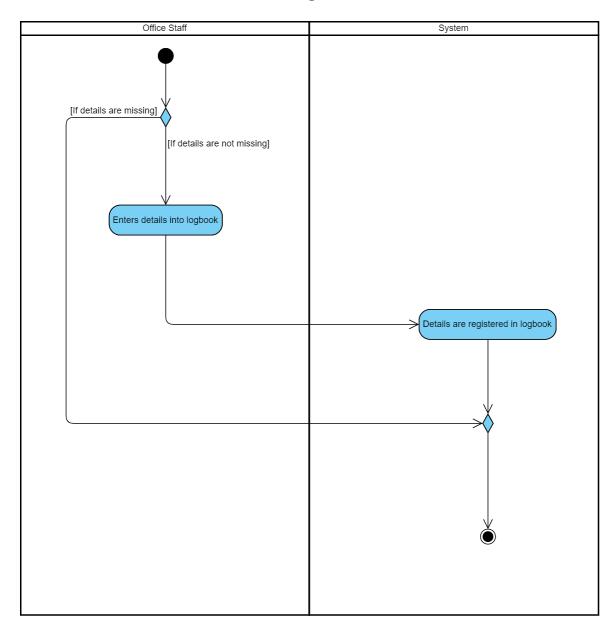
Receive Call and Provide Information



Provide Information

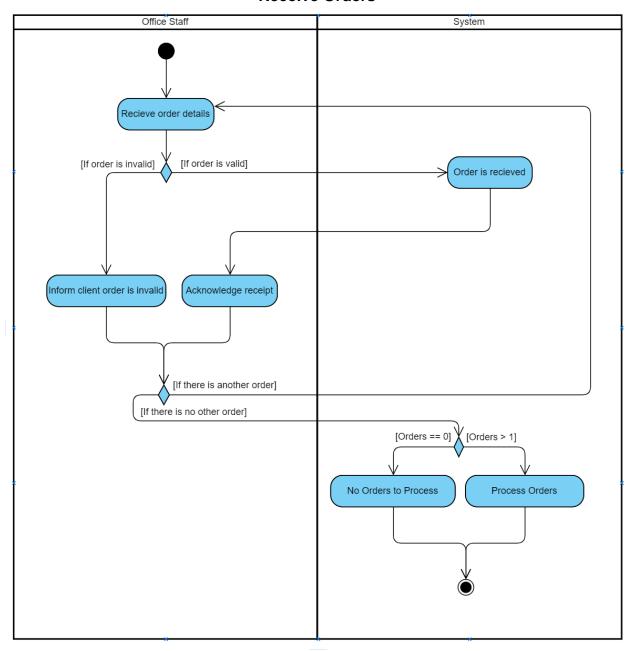


Edit Logbook

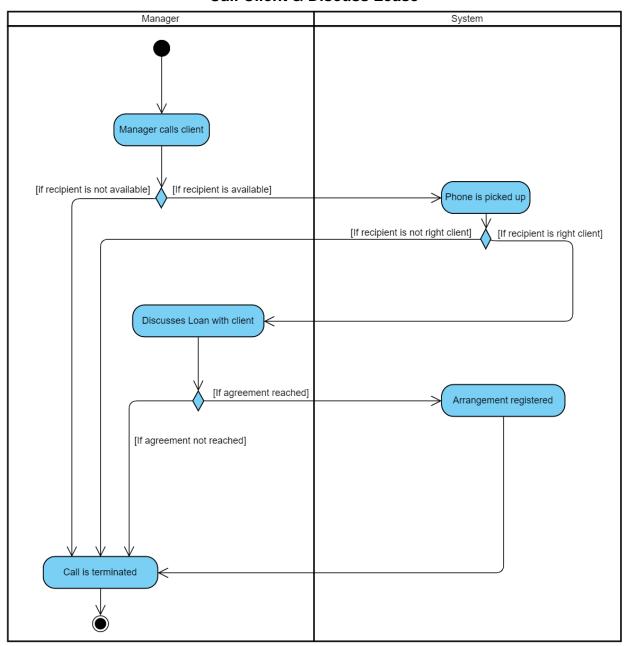


//same Activity Diagram for Maintenance Staff -> Edit Logbook

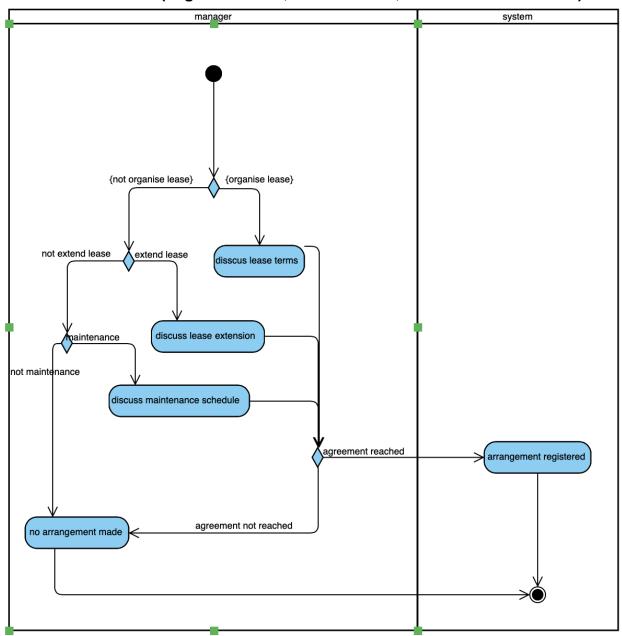
Receive Orders



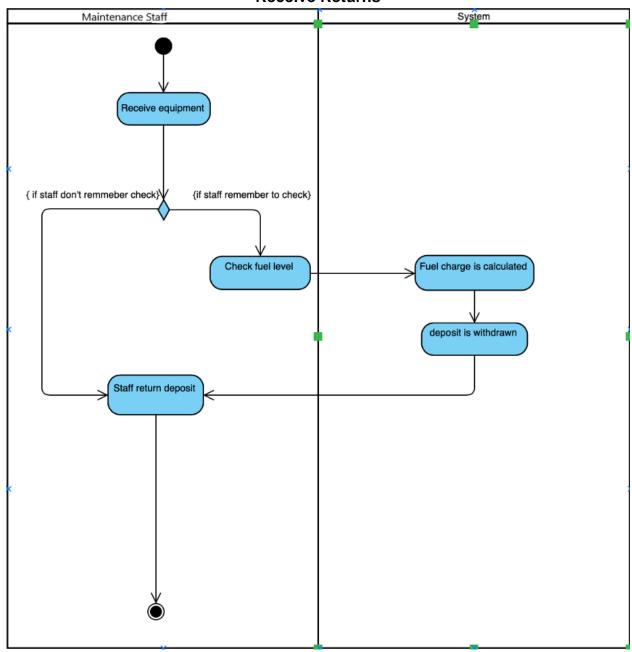
Call Client & Discuss Lease



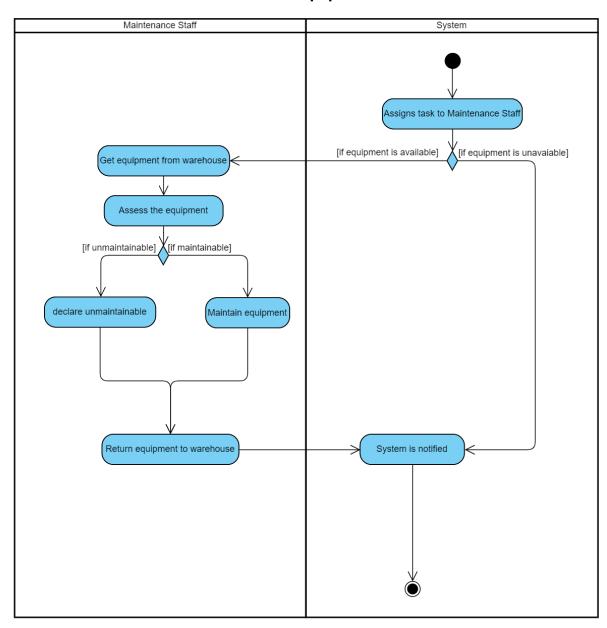
Discuss Lease (Organize Lease, Extend Lease, Schedule maintenance)



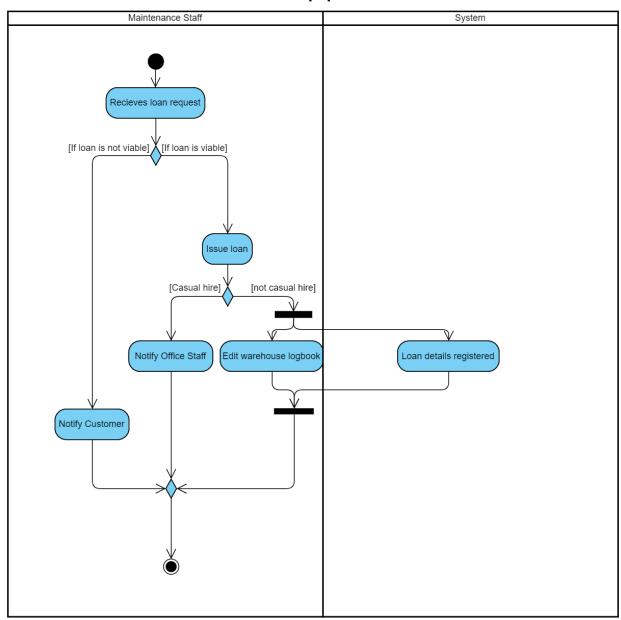
Receive Returns



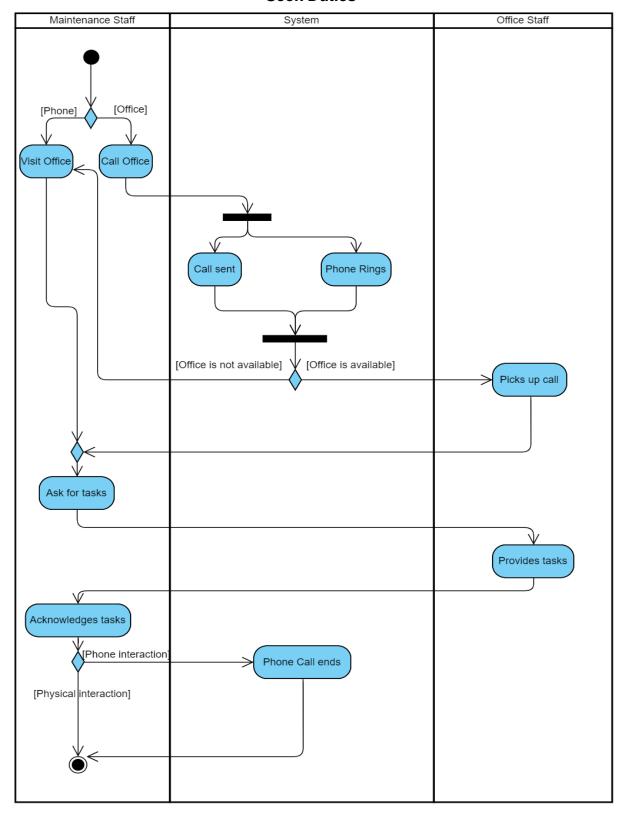
Maintain Equipment

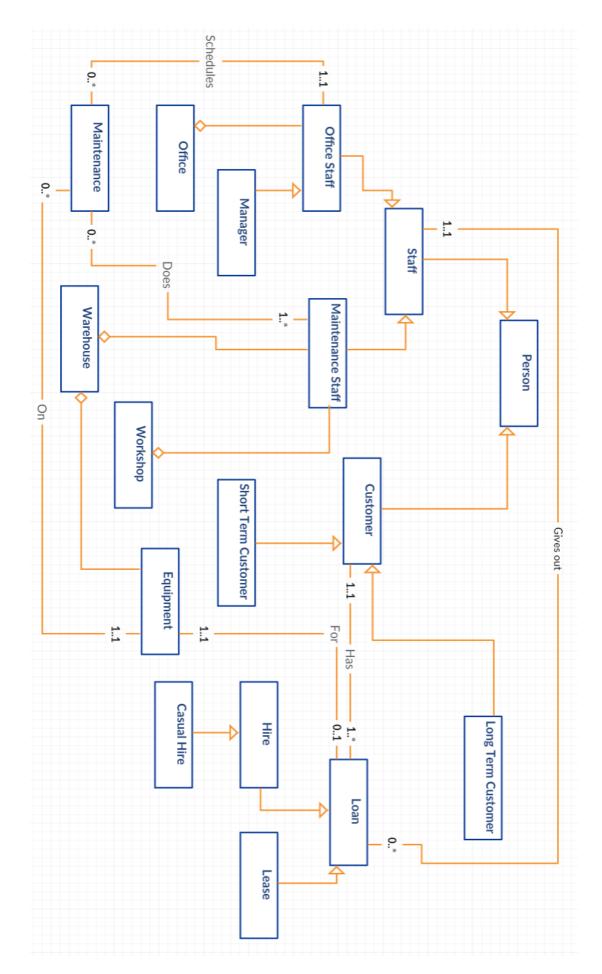


Loan Equipment



Seek Duties





Minutes of meeting

Group: AAFG Place: EF Building Date/Time: Wednesday 11am-2pm

In attendance

Ayden Khairis Ahmed Abdelsalam Faraz Zarnihki Gavin Austin

Apologies

None

Agenda

- Matters arising from previous meeting
 - o First meeting
- Agenda items (as needed)
 - o Where to begin our assignment
 - o Discuss and document use cases and requirements
- Date, time and place for next meeting
 - o 4th April, 9am, EF Building
- Matters for consideration at next meeting
 - o Continuation of use case discussion and second draft

Task	Responsible	Due	Notes
Question 1	Everyone	4 th April	
	-	_	

Minutes of meeting

Group: AAFG Place: EF Building Date/Time: Thursday 9am-1pm

In attendance

Ayden Khairis Ahmed Abseladam Faraz Zarnihki Gavin Austin

Apologies

None

Agenda

- Matters arising from previous meeting
 - o Continuation of use case discussion and second draft
- Agenda items (as needed)
 - o Discuss and document use cases and requirements
 - o Create use cases for Question 1
 - o Start Question 2
- Date, time and place for next meeting
 - o 5th April, 8am, Online Meeting
- Matters for consideration at next meeting
 - o Question 2 completion
 - Start Question 3

Task	Responsible	Due	Notes
Completing	Everyone	By the	Question 1 was completed
Question 1		end of	
		the	
		meeting	
Start Question 2	Ayden and	By the	
	Gavin	end of	
		next	
		meeting	
			1

Minutes of meeting

Group: AAFG Place: Online Date/Time: Friday 8am-12pm

In attendance

Ayden Khairis Ahmed Abseladam Faraz Zarnihki Gavin Austin

Apologies

None

Agenda

- Matters arising from previous meeting
 - o Question 2 completion
 - o Start Question 3
- Agenda items (as needed)
 - o Examine Question 2 answers together
 - o Start Question 3
- Date, time and place for next meeting

 o 8th April, 11am, EF Building
- Matters for consideration at next meeting
 - o Question 3 completion

Task	Responsible	Due	Notes
Finish Question 2	Ayden and	End of	
	Gavin	this	
		meeting	
Start and Finish	Faraz and	End of	
Question 3	Ahmed	next	
		meeting	

Minutes of meeting

Group: AAFG Place: EF Building Date/Time: 1-2pm

In attendance

Ayden Khairis Ahmed Abseladam Faraz Zarnihki Gavin Austin

Apologies

None

Agenda

- Matters arising from previous meeting
 - o Question 3 completion
- Agenda items (as needed)
 - o Examine Question 3 answers together
- Date, time and place for next meeting
 - o 10th April, 11am, EF Building
- Matters for consideration at next meeting
 - o Complete Question 4 and hand in assignment

Task	Responsible	Due	Notes
Finish and edit	Faraz and	End of	
Question 3	Ahmed	this	
		meeting	

Minutes of meeting

Group: AAFG Place: EF Building Date/Time: 11-2pm

In attendance

Ayden Khairis Ahmed Abseladam Faraz Zarnihki Gavin Austin

Apologies

None

Agenda

- Matters arising from previous meeting
 - o None
- Agenda items (as needed)
 - o Complete Question 4 and hand in assignment
- Date, time and place for next meeting
 - 0 ---
- Matters for consideration at next meeting

0 ---

Task	Responsible	Due	Notes
Finish Question 4	Everyone	End of	
		this	
		meeting	
Format Submission	Gavin	10 th	
		April	
Submit Assignment	Faraz	11 th	
		April	