Nombre o identificador	R01- List available mini-rooms			
Resumen	Generate a list with the available mini-rooms, showing the corridor, the location (window or no window), the column and the rental value.			
Entradas	Nombre entrada	Tipo de dato	Condición de selección o repetición	
Emiladas				
Actividades generales necesarias para obtener los resultados	<ol> <li>Get the status of each mini-room</li> <li>Check which mini-rooms are available</li> <li>Get the corridor of the available mini-rooms</li> <li>Obtain the location of the available mini-rooms</li> <li>Obtain the column of available mini-rooms</li> <li>Obtain the rental value of the available mini-rooms</li> <li>Create a list with the available mini-rooms and their data</li> <li>Show the list</li> </ol>			
Resultado o postcondición	List of available mini-rooms			
Salidas	Nombre salida	Tipo de dato	Condición de selección o repetición	
SalludS	Message String If mini-rooms at available			

Nombre o identificador	R02- Rent a mini-room			
Resumen	Rent a mini-room, record the rental date, register the servers and calculate the value of the monthly rent that a company must pay.			
	Nombre entrada	Tipo de dato	Condición de selección o repetición	
Entradas	numMiniRoom typeRent nameCompany nitCompany numServers cacheServer numProcessorsServer brandProcessorServer ramServer numDisksServer diskCapServer	Int String String String Int Double Int String Double Int String Double Int Double	If the chosen mini-room is available  If the tenant is a company	

4.5.1.1			
2. Check the availability of the mini-room			
3. Read the type of tenant			
4. Read the company name			
5. Read the nit of	or registration number of	the project	
6. Read rental d	ate		
7. Read the num	nber of servers to register		
8. Read the amo	ount of cache memory of	each server	
9. Read the num	nber of processors of each	server	
10. Read the pro	ocessor brand of each ser	ver	
•			
12. Read the number of disks for each server			
14. Add the servers and their attributes to the room			
•	•		
18. Change roor	n availability status		
_	-		
	<u> </u>		
Mini-room in rented sta	te		
Nombre salida	Tipo de dato	Condición de selección	
Nomble Sanda	Tipo de dato	o repetición	
Mossago	String	If the mini-room was	
ivicssage	String	rented satisfactorily	
	2. Check the ava 3. Read the type 4. Read the com 5. Read the nit of 6. Read rental d 7. Read the num 8. Read the amount 9. Read the num 10. Read the profile and the amount 12. Read the num 13. Read the num 14. Add the serve to the companies of the c	4. Read the company name 5. Read the nit or registration number of 6. Read rental date 7. Read the number of servers to register 8. Read the amount of cache memory of e 9. Read the number of processors of each 10. Read the processor brand of each serv 11. Read the amount of ram memory of e 12. Read the number of disks for each serv 13. Read the disk capacity of each server 14. Add the servers and their attributes to 15. Calculate total price to pay for the rer 16. Add company information 17. Add rental date 18. Change room availability status 19. Show message  Mini-room in rented state  Nombre salida  Tipo de dato	

Nombre o identificador	R03- Cancel mini-room rental			
Resumen	Cancel the rent for a mini-room or for all the mini-rooms of a company.  Eliminate the servers and, before proceeding with the cancellation, deploy the processing capacity.			
	Nombre entrada	Tipo de dato	Condición de selección o repetición	
Entradas	typeRent nameCompany nitCompany numMiniRoom	String String String Int	If there are mini- rooms rented  If the company or project does appear as a tenant If the company wants to cancel only one rental	

	1. Check if there	e are rented mini-rooms		
	2. Read the type of tenant			
	3. Read the company name			
	4. Read the nit o	4. Read the nit or registration number of the project		
	5. Verify if the c	ompany or project is a ter	nant	
	6. Show the ren	ted mini-rooms with their	name or number	
	7. Ask if you wa	nt to delete a single rent o	or all	
Actividades generales		nber of the mini-room to o		
necesarias para		e mini-room number mate	ches the company or	
obtener los resultados	project			
	10. Show the servers of the mini-rooms to delete 11. Ask if you are sure to delete them			
	12. Remove servers			
	13. Change rental date			
	14. Change com	• •		
	_	lability status of the mini-	room	
	16.Show rental	canceled message		
Resultado o	   Mini-room in available s	tato		
postcondición	Wini-room in available state			
	Nombre salida	Tino do dato	Condición de selección	
Salidas	NOTHBLE Salida	Tipo de dato	o repetición	
Salluas	Mossago	String	If the rental (s) were	
	Message	Jung	satisfactorily paid	

Nombre o identificador	R04- Show DataCenter Map		
Resumen	Show a map of the datacenter in which you can see which mini-rooms are on and which are off.		
Entradas	Nombre entrada	Tipo de dato	Condición de selección o repetición
Entradas			
Actividades generales necesarias para obtener los resultados	1. Check the available mini-rooms 2. Verify the rented mini-rooms 3. Reference the available mini-rooms 4. Reference the rented mini-rooms 5. Create a message that shows the map 6. Show all mini-rooms by corridors 7. Turn on the rented mini-rooms 8. Turn off the lit mini-rooms 9. Show the data center map		
Resultado o postcondición	Datacenter map		

	Salidas	Nombre salida	Tipo de dato	Condición de selección o repetición
Saliua	Sandas	Message	String	

Nombre o identificador	R05- Simulate on		
Resumen	Simulate turning on all mini-rooms (regardless of status) to test shutdown protocols.		
Entradas	Nombre entrada	Tipo de dato	Condición de selección o repetición
Entradas			
Actividades generales necesarias para obtener los resultados	Obtain the datacenter map     Change the status of all mini-rooms to on     Show the datacenter map		
Resultado o postcondición	All mini-rooms on		
Salidas	Nombre salida	Tipo de dato	Condición de selección o repetición
Januas	Message	String	

Nombre o identificador	R06- Simulate off			
Resumen	Simulate the turning off of the mini-rooms according to the entered letter, after turning off the rooms the map of the datacenter should be shown where the changes can be observed.			
Entradas	Nombre entrada	Condición de selección o repetición		
Entradas	Letter	String		
Actividades generales necesarias para obtener los resultados	Read the letter chosen by the user     Obtain the datacenter map     Change the status of all mini-rooms to off according to the condition of the letter  4.Show the datacenter map			
Resultado o postcondición	Mini-rooms according to letter turned off			
Salidas	Nombre salida  Tipo de dato  Condición de selección o repetición			

Message	String	
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Identificador	Método	Clase	
R01- List	<ul><li>showList():void</li></ul>	•	Main
available mini-	<ul><li>showListAvailable():String</li></ul>	•	DataCenter
rooms			
R02- Rent a	<ul><li>rent():void</li></ul>	•	Main
mini-room	<ul> <li>checkRoomAvailability(numRoom):boolean</li> </ul>	•	DataCenter
	<ul><li>registerServers(numServers,numRoom):void</li></ul>	•	Main
	<ul><li>totalPrice(numRoom,numServers):double</li></ul>	•	DataCenter
	<ul> <li>rent(numRoom, rentalDate, nameCompany,</li> </ul>	•	DataCenter
	nitCompany):Boolean		
	<ul> <li>addCompany(nameCompany,nitCompany):void</li> </ul>	•	MiniRoom
	<ul><li>registerServers(servers, room):void</li></ul>	•	DataCenter
R03- Cancel	<ul><li>cancelRent():void</li></ul>	•	Main
mini-room	<ul><li>searchCompany(name, nit):int</li></ul>	•	DataCenter
rental	<ul><li>searchProject(nit):int</li></ul>	•	DataCenter
	<ul> <li>listOfRented(name,nit):String</li> </ul>	•	DataCenter
	<ul> <li>listOfRented(name):String</li> </ul>	•	DataCenter
	toString():String	•	MiniRoom
	<ul><li>listServers(numRoom):String</li></ul>	•	DataCenter
	listServers(name,nit):String	•	DataCenter
	toStringServers():String	•	MiniRoom
	toString():String	•	Server
	<ul> <li>clearArrayList():void</li> </ul>	•	MiniRoom
	<ul><li>cancelRent(nit,numRoom):Boolean</li></ul>	•	DataCenter
	cancelRent(nit):Boolean	•	DataCenter
R04- Show	showDataCenterMap():void	•	Main
DataCenter	• print():String	•	DataCenter
Мар			
R05- Simulate	simulateTurnOn():void	•	Main
on	turnOnAll():String	•	DataCenter
R06- Simulate	simulateTurnOff():void	•	Main
off	<ul> <li>turnOffLetter(letter):String</li> </ul>	•	DataCenter
	<ul><li>turnOffColum(colum):String</li></ul>	•	DataCenter
	<ul> <li>turnOffCorridor(corridor):String</li> </ul>	•	DataCenter