Use Cases Description

Name of Use Case:	Door locking					
Created By:	Egor Anenkov	Last Updated By:	Egor Anenkov			
Date Created:	2/15/23	Last Revision Date:	3/3/23			
Description	an: A sonior wants to le	ack the house remotely u	sing his mobile ann when he goes out			
		A senior wants to lock the house remotely using his mobile app when he goes out				
Acto	ors: Senior, Senior Fami	Senior, Senior Family, Ai, House control system				
Preconditio	2. He has his verif	2. He has his verified device with him				
Postconditio	2. The doors have	2. The doors have closed				
Main Flo	 Senior takes ou Senior requests The system clos 	 Senior takes out his device and logs in to the app Senior requests for the house system to close the doors The system closes all doors System sends message to the senior and his family about successful request 				
Alternative Flow	1. Senior calls 2. Family mer 3. They reque 4. System clos 5. System sen request cor 2. In step 3 if senior 1. Ai checks t 2. In 15 minu					
Exceptio	the house: 1. Close the d 2. Send the m and senior' 3. Wait for the	 the house: Close the doors Send the message about closed doors and unknown person to the senior and senior's family Wait for the furthest requests 				
Non-Functio Requiremen	1. Both senior 2. Both senior house system	 Both senior and senior's family devices should have accounts for the app. 				

Name of Use Case:	Turning on the kettle	Furning on the kettle				
Created By:	Egor Anenkov	Last Updated By:	Egor Anenkov			
Date Created:	2/15/23	Last Revision Date:	3/3/23			
Description	A senior wants to tu	A senior wants to turn on the kettle remotely				
Acto	rs: Senior, Senior Famil	Senior, Senior Family, House control system				
Preconditio		Senior is going out of the house				
		2. Senior has a verified device with him3. There is water in the kettle				
		vants to boil the water so he won't waste time later				
Postconditio						
	·	3. It sends a message to the user about turning on the kettle				
	5. It sends the					
Main Flo	w: 1. Senior takes	Senior takes out his device and logs in to the app				
	2. Senior requ	2. Senior requests for the house system to turn on the kettle				
	· ·					
		4. System turns on the kettle				
		5. System sends a message to the senior about successful request				
	·	6. System sends the message to the senior when the water is boiled				
Alternative Flow	vs: 1. In step 1 of the no	1. In step 1 of the normal flow, if the senior forgot his account info:				
	1. Senior calls h	1. Senior calls his family				
		2. Family members log in to the app				
	3. Continue fro					
	2. In step 3 of norn	2. In step 3 of normal flow and alternative flow above, if there is no water inside:				
	1. Send the me	 Send the message to the user who requested kettle turn on 				
		eone pours water inside				
		3. Continue from step 4 of normal flow				
Exceptio	•	In step 3 of normal flow and 1 st alternative flow if the system sees that water is				
	· ·	already boiled:				
Non Franchis		Send the message that the water is boiled The full state of the second state of				
Non-Function		5 1				
Requiremen	1. Both se	1. Both senior and senior's family devices should have accounts for the				
	app.					
		2. Both senior and senior's family devices should have a connection to				
		the house system 3. All appliances can be turned on and off by the system				
	4. Senior a	4. Senior and family know how to use app(the app is simple in use)				

Name of Use Case:	Risky behavior					
Created By:	Egor Anenkov		Last Updated By:	Egor Anenkov		
Date Created:	2/15/23		Last Revision Date:	3/3/23		
Description	on: An Al s	An AI sends a message to the senior's family about risky senior behavior				
Acto	rs: Senior	Senior Family, Ai, House control system				
Precondition		 Senior is acting strange or doing something risky Family members have their devices with them 				
Postconditio	ns: 1.	The house system sends messages and video of the situation to the family members				
	2.	If Al identifies senior state as dangerous it sends the message to the hospital				
Main Flo	 Senior is acting strangely (for example he is drunk and throws different items) Al receives data about this The system sends video and messages to the family System waits further commands from the family 					
Alternative Flov	vs: 1. In st	1. In step 2 of the normal flow, if the AI sees that the senior is in danger				
	1. 2.	The system The system If the emerg	• •	video to the family		
Exception		In step 1 if the senior is with someone else inside his house(and this person is in one room with the senior):				
	1.	 send the message to the hospital only in case of serious danger Wait further commands from the family 				
Non-Function		The following requirements must be met before execution of the use case				
Requiremen	1. 2.	 Both senior and senior's family devices should have accounts for the app. Both senior and senior's family devices should have a connection to the house system 				
	3. 4.		_	pp(the app is simple in use)		