## **Use Cases Description**

Name of Use Case:	Door locking	Door locking				
Created By:	Egor Anenkov	Last Updated By:	Egor Anenkov			
Date Created:	2/15/23	Last Revision Date:	3/3/23			
Description	on: A senior wants to lo	A senior wants to lock the house remotely using his mobile app when he goes out				
Acto	Senior, Senior's Fan	Senior, Senior's Family, Device, Ai				
Preconditio	2. He has his verif	2. He has his verified device with him				
Postcondition	2. The doors have	2. The doors have closed				
Main Flo	<ul><li>2. Senior requests</li><li>3. The system clos</li></ul>	<ol> <li>Senior takes out his device and logs in to the app</li> <li>Senior requests for the house system to close the doors</li> <li>The system closes all doors</li> <li>System sends message to the senior and his family about successful request</li> </ol>				
Alternative Flow	1. Senior calls 2. Family men 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	<ol> <li>In step 1 of the normal flow, if the senior forgot his account info:         <ol> <li>Senior calls his family</li> <li>Family members log in to the app</li> <li>They request the system to close the doors</li> <li>System closes the doors</li> <li>System sends message to the senior and his family about successful request completion</li> </ol> </li> <li>In step 3 if senior forgot to close the door:         <ol> <li>Ai checks the camera to see that there is no one inside or near the house</li> <li>In 15 minutes AI closes the door and sends messages to the senior and his family about closed doors.</li> </ol> </li> </ol>				
Exception	the house:  1. Close the d  2. Send the m  and senior'	1 · ·				
Non-Function Requiremen	1. Both senior 2. Both senior house syste					

Name of Use Case:	Turni	Turning 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 turn on the kettle remotely				
Actors:		Senior, Senior's Family, Device				
Preconditio	ns:	<ol> <li>Senior is going out of the house</li> <li>Senior has a verified device with him</li> </ol>				
		<ol> <li>There is water in the kettle</li> <li>He wants to boil the water so he won't waste time later</li> </ol>				
Postconditio	ns:					
		2. The system turns on the kettle				
		3. It sends a message to the user about turning on the kettle				
		<ul><li>4. It sends a message if the water is boiled</li><li>5. It sends the message if there is no water inside</li></ul>				
Main Flo	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
I IVIAIII I I I	,	<ol> <li>Senior takes out his device and logs in to the app</li> <li>Senior requests for the house system to turn on the kettle</li> </ol>				
			checks if there is water i			
			s 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	ws:   1	1. In step 1 of the normal flow, if the senior forgot his account info:				
		1. Senior calls his family				
		2. Family members log in to the app				
		3. Continue from the step 3 of main flow				
	2	2. In step 3 of normal flow and alternative flow above, if there is no water inside:				
		1. Send the message to the user who requested kettle turn on		quested kettle turn on		
			eone pours water inside			
	_		m step 4 of normal flow			
Exceptio		In step 3 of normal flow and 1 <sup>st</sup> alternative flow if the system sees that water is				
	a	already boiled:				
Non-Function	nal T		ssage that the water is be			
	-	The following requirements must be met before execution of the use case				
Requiremen	113.	Both senior and senior's family devices should have accounts for the				
		app.	-t	landara alkandal kanna a na ana antara s		
				devices should have a connection to		
			se system ances can be turned on	and off by the system		
				use app(the app is simple in use)		
		3011101 0	a, know now to t	and applicate the completing and		

Name of Use Case:	Risky behavior	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 sends a mess	An Al sends a message to the senior's family about risky senior behavior				
Acto	rs: Senior's Family, De	vice, Ai				
Precondition		<ol> <li>Senior is acting strange or doing something risky</li> <li>Family members have their devices with them</li> </ol>				
Postcondition	members	2. If Al identifies senior state as dangerous it sends the message to the				
Main Flo	items) 2. Al receives 3. The system	<ol> <li>Senior is acting strangely (for example he is drunk and throws different items)</li> <li>Al receives data about this</li> <li>The system sends video and messages to the family</li> <li>System waits further commands from the family</li> </ol>				
Alternative Flov	-	1. In step 2 of the normal flow, if the AI sees that the senior is in danger state(unconscious):				
	<ol> <li>The system</li> <li>The system</li> <li>If the emer</li> </ol>	• ,	video to the family			
Exception	one room with the 1. send the m	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  2. Wait further commands from the family				
Non-Functio Requiremen	1. Both senior 2. Both senior house syste 3. Cameras are	and senior's family devic and senior's family devic m working and connected	fore execution of the use case es should have accounts for the app. es should have a connection to the to AI pp(the app is simple in use)			