Project 2: Automate Your Friend's Home

Usage scenario

Kate is a mother of two sons which she got from her husband Nic. She works part time as a teacher in primary school located about 5 kilometers away from her hometown.
Her daily workday routine starts at 6 am. Because she loves to get woken up by the sunlight (but there is not always one so early in the morning) the lights turn on and gets brighter and brighter till they finally wake her up. In all other rooms except the bed rooms the shutters going up to let in sunlight again.

After the shower she goes to the kitchen to have breakfast. There she already smells the freshly brewed coffee which is waiting for her. The time in the kitchen is always used to find out what is going on in the world, so the radio automatically starts echoing.

After some time for her own, it is time to wake up her two sons. They both visit the same school which Kate is teaching in. She turns up the shutters and turns on the light in their bedrooms remotely and prepares the breakfast for the two.

At 7 am everyone is ready for school, so they leave the house together. Because Nic has left early this morning and no one is in the house anymore, Kate activates the alarm system. All open windows are getting closed and all lights are turned off. The heating is automatically set to energy mode and the cameras are turned on.

Because it is cold today and her kids bring some friends, she activates the heating remotely at work in her freetime. During teaching she realized, that she forgot to buy some groceries for dinner, so she made a short break to check the food in the refrigerator via an application. After checking the food she orders the missing groceries online at her local supermarket.

During her break between classes her phone began to vibrate. It was the alarm system, because someone was at the front door of her house. She activates the camera at the front door to see who is ringing the bell. It was the delivery guy with her groceries, so she opens the door remotely and gave him instructions, where he should put the food. After the delivery guy left the front door locked itself and the alarm system was active again.

At 4 pm the children and her are ready to leave the school and go home. When she enters the front door after some validation, the alarm system turns off and some lights are turned on in the entrance hall. The house is noticeably warmer than yesterday.

After dinner the family sits in the living room and watches a little bit TV. Nic uses voice commands to initiate cinema lighting in the room. The light dims automatically and the window shades go down. Then he chooses a film again by using voice commands.

At 8 pm it is time to bring the children to bed. The rooms are personalized for the boys needs. One of the boys is afraid of the dark, so the light dims automatically but does not turn off. The other one likes to fall asleep with a little bit of music in the background but when the

boy falls asleep the music turns off automatically to save energy. These two features are time controlled so they are activated when it is 8pm.

When the parents go to bed the security system is activated: all doors and windows are closed and shut and the alarm system is activated. Also the motion detectors which are installed in the garden are activated.