

# Requirements Documentation – Unit group

## Homedork - Interactive Smart House

### Revision History

Name	Associated Letter
Hani Alzir	A
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Amr Al-shaaba	D

Date	Version	Description	Author
2021-09-15	1.0	Modifying Requirements documentation	A,B,C,D
2021-10-15	1.1	Updating priority for R6 and R10 in the list	A,B,C,D
2021-10-20	1.2	Edits to priorities: Microwave on/off Coffee Machine	A,B,C,D
2021-11-16	1.2.1	Updated the requirements List: Delete Microwave and coffee machine Add game	A,B,C,D
2021-11-17	1.2.2	Add a calandar	A,B,C,D
2021-12-6	2.0	Edited Completion status for: - R7 - R8 - R10	
2022-01-08	3.0	Final version	A,B,C,D



## Requirements List

Requirement Name	Priority	Completion (%)
R1. Start application	Essential	100 %
R2. End application	Essential	100 %
R3. Log in system	Essential	100 %
R4. Scroller for lights	Essential	100 %
R5. Scroller for temperature	Essential	80 %
R6. Play a game	Essential	100 %
R7. Scroller as a clickable on/off	Desirable	100 %
R8. Speech recognition	Desirable	80 %
R9. Connect to the speaker (Bluetooth)	Desirable	0 %
R10. Calendar for a user to add events	Essential	90 %

## Requirements Descriptions

### **R1**

To be able to start the application process.

### **R2**

Quitting the application process (automatically saving the data)

### **R3**

A login system is necessary to give the right user the right access to his smart house, there should be a good authentication system to be able to protect the user as good as possible.

### **R4**

The user should be able to input light sensitivity from 0-100 using a scroller. 0, in this case, means it's off and 100 means the light sensitivity is at maximum brightness.

### **R5**

The user should be able to use the scroller to input data into his smart house AC depending on his scroller input.

### **R6**

The user is able to play a simple game in their free time

### **R7**

The user should also have the option to turn on the light using a button in case light sensitivity is not an option.

### **R8**

Currently, speech recognition is desirable as an alternative way to give input, while this may be important, the priority level isn't essential. The basic idea is to reduce the limitations as much as

possible for someone with a certain type of disability, using speech recognition. Though the accuracy is will require testing.

**R9**

The user should be able to connect to speakers using Bluetooth on both web app and phone app.

**R10**

The users will have the option to see a calendar and add reminders or events