**Requirements Documentation – Unit group**

**Homedork - Interactive Smart House**

**Revision History**

|  |  |
| --- | --- |
| Name | Associated Letter |
| Hani Alzir | A |
| Ali Habesh | B |
| Stiv Abdulwahed | C |
| Amr Al-shaaba | D |

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| --- | --- | --- | --- |
| **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 |

**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 | 100 |
| R6. Play a game | Essential | 100 |
| R7. Scroller as a clickable on/off | Desirable | 0 |
| R8. Speech recognition | Desirable | 0 |
| R9. Connect to the speaker (Bluetooth) | Desirable | 0 |
| R10. Calendar for a user to add events | Essential | 30 |

**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