# Requirements Documentation

# Interactive House

Revision History

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| --- | --- |
| **Name** | **Associated Letter** |
| Lukas Olsson | A |
| Wills Ekanem | B |
| Bujar Rabushaj | C |
| Besnik Rabushaj | D |

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 16/9/2021 | 0.0 | Initial Requirement Assessment | A, B, C, D |
| 6/10/2021 | 0.1 | Requirement Revision | A, B, C, D |

Requirements List

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| **Requirement Name** | **Priority** |
| R1. Start/run Server | Essential |
| R2. Connecting to database | Essential |
| R3. Disconnecting from DB | Essential |
| R4. Receive API request from Client | Essential |
| R5. Update Database | Essential |
| R6. Send Query to DB server from API | Essential |
| R7. Receive JSON and control message from DB server | Essential |
| R8. Encrypt and Decrypt communication between API and DB server | Essential |
| R9. Listen to Devices | Essential |
| R10. Password Encryption | Essential |
| R11. Add New Devices | Optional |
| R12. Remove Devices | Desirable |
| R13. Data Encryption | Desirable |

Requirements Descriptions

### R1

Launch the database and be ready to receive and send information.

### R2

Allow Clients to connect to the database through the server.

### R3

Allow clients to disconnect from the server.

### R4

Server will be able to receive streams from the Client.

### R5

The ability to modify data within the database through the server

### R6

Must be able to send a query to DB server through the API

### R7

Server must be able to read data from the database.

### R8

Whenever sending data between API and DB server it must be encrypted and then decrypted.

### R9

The server must be actively listening to devices to accept changes.

### R10

The database must have password encryption for the users.

### R11

The server could add a new device to the database.

### R12

The server should be able to remove a device in the database.

### R13

The database should only have access to encrypted data and the server should only be sending encrypted data that can only be read by the devices.