

Requirements Documentation

Interactive House

Revision History

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

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

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.