

Vision Documentation

Homedork – Interactive house

Revision History

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

Date	Version	Description	Author
6/10/2021	0.1	Initial vision layout	A, B, C, D
21/10/2021	0.2	-Added a longer more detailed description for Introduction -Added Requirements necessary to complete basic and additional features.	A

Product Overview

1. Smart House Concept: Server and API

1.1 Introduction

The server and API side of the Smart House Concept focuses on the communication between the Client side and the database in a secure and efficient way. The communication will be done through passing encrypted JSON objects from the DB to the Client using an API. The API has methods that will allow get, insert, update, and delete methods for users and devices. The queries will be built by the API and then sent to the server where it will be done and then an object as well as a message is sent back for confirmation.

2. Basic Technical Features

The smart house project will be filled with numerous features such as:

- R4 Send and receive data using an API
- R1/R2 Connect and Disconnect from DB seamlessly
- R5 Update info as required on the DB
- R6 Send a query to the DB server from the API

3. Smart House Technicalities

The system consists of a server connected to its units which in their turn control the devices. The server will handle all communication to and from the devices/units. This will be done by sending and receiving JSON objects through the API. Connecting and disconnecting seamlessly without exceptions. Updating the info on the DB is also necessary to change the states of certain devices. These updates will be done through query messages.

4. Additional Features of The Smart House

In addition to the basic features of the Server and API group, there will also have functionalities that are not required for it to function, but for the useability and appeal to its user. Some of those features are:

- R8/R10 Encrypt the data so that it is safe
- R11/R13 Easily add and remove devices without issue