**Team: A-Team**

**Requirements & Use Cases**

**Gathering Ideas:**

Login or Sign Up with username

Connect Sensors to devices

Add/Remove/Shutdown sensors

**Devices:**

Washing machine

Light system

TV

AC

-------------------------------------

**Washing Machine:**

States: Running/Finished/Error

* Running: Shut-Down/Exit
* Finished: Start/Exit

Notification pop up with done message when finished state is reached.

* Error: Shutdown/Exit

Notification pop up with type of error.

**Light System:**

States: On/Off

**TV:**

States: ON/OFF

**AC:**

States: ON/OFF

* ON: Increase/Decrease temperature/Exit
* OFF: Turn on/Exit

**Smoke Sensor:**

Detects smoke and notifies user of unusual behavior.

---------------------------------------------

**Functional requirements:**

Smart-Home is a board that gives the user the ability to control various home machines using sensors connected to each device. The user has to first create an account and then connect the sensors available to the application. Sensors could be shut down without having to disconnect them.

The home page will show the status of each machine at the current time. By clicking on the name of each device another page opens up with all options that could be done at the current state, depending on the machine. The status of devices could be manually or automatically updated, and in case of the automatic the user could choose to be done every 1 or 2 or 5 minutes. Longer periods are not preferable to ensure quality and accuracy of events.

In case of lost connection with sensor, application will try to reconnect automatically every 30 seconds for 5 times and then it will be disconnected if the user did not manually click retry.

In case of system failure the user will have to restart the application.