

Cloud Sound System

Hardware Description and Phases

The hardware part of the project is responsible for building the speaker which is connected to WiFi and make it able to communicate with the project's back-end, and of course to be able to control it using the front end through the back-end, so to build the hardware part we need to do the following :

For the Speaker and the Raspberry Pi:

1. Connect the Raspberry Pi with the speaker.
2. Build a software that runs on the raspberry pi and makes it connected to the server.
3. Utilize the system's API to connect to the server and add itself to the database.
4. The speaker will send its current status to the back-end.
5. The speaker will also be listening "As a Server" so that the API can send something.
6. The ability to control it "On/Off".
7. The ability to control the volume "Up/Down/Mute".
8. The ability to Play/Pause/Stop.

For the future Refinements:

Build a full scenario where the user can just buy the speaker, add its serial number to his dashboard and then the speaker is automatically added and attached to his account.