

IoT project proposal

Vincent Groeneveld – W20104112

Project description

My project will try to automate a smart home to the greatest extend possible/ feasible, relying primarily on readings from an Arduino which will hypothetically sit in a protected outside environment. The smart home will be hypothetical as well, but the Arduino will be my actual real Arduino.

The project will integrate with an IoT platform to record and process readings and take further actions like user notification, and I'm looking to integrate readings with the WeatherTop 2.0 project as well.

Tools, Technologies and Equipment

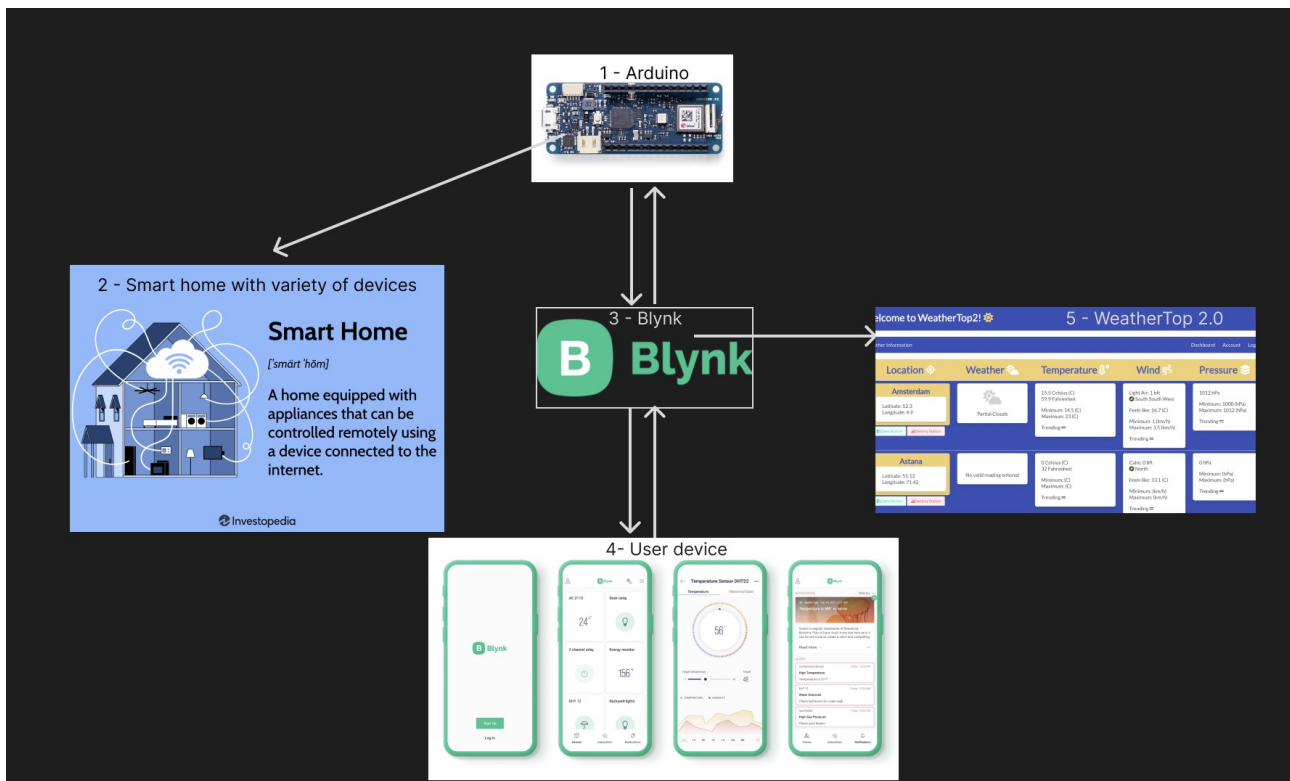
The project will be a mix of technologies: my Arduino will be used to take in real life readings, and it will probably be connected to Blynk for data processing and user notification. The Arduino will be part of a hypothetical smart home in Packet Tracer, where it will control various devices. WeatherTop 2.0 was build in Glitch and that platform will be used to make adjustments to that project as well.

Coding languages to be used are whatever the platforms support, primarily JavaScript and C++.

Project Repository

<https://github.com/specialcookiecheck/IoT-smart-home>

Project schema



* see footnotes for image sources

*Image sources

- 1 - https://store-usa.arduino.cc/cdn/shop/products/ABX00023_03.front_e36ac88d-0b23-4976-9ef5-9c27c0e999c3_1000x750.jpg?v=1630488970
- 2 - [https://www.investopedia.com/thmb/ObBgOq9_WGDF6fk7LrRbA9yZUdw=/1500x0/filters:no_upscale\(\):max_bytes\(150000\):strip_icc\(\)/smart-home.asp-final-5de0da3d6d8a474f9028d26c957255fe.png](https://www.investopedia.com/thmb/ObBgOq9_WGDF6fk7LrRbA9yZUdw=/1500x0/filters:no_upscale():max_bytes(150000):strip_icc()/smart-home.asp-final-5de0da3d6d8a474f9028d26c957255fe.png)
- 3 - https://images.g2crowd.com/uploads/product/image/social_landscape/social_landscape_5069e54026683736abebbea8de803fe0/blynk-iot-platform.png
- 4 - <https://user-images.githubusercontent.com/72824404/119525085-e464a300-bd86-11eb-84dc-a4f3de0f7ec9.png>