

Sprint 2

Sprint goal

The goal for the second sprint is to construct a working prototype of basic device functionality, including reading of solar data and wireless data transmission over Wi-Fi.

User stories

1. (5 SP) As a user I want the device to acquire new information once per minute
2. (13 SP) As a user I want to receive communication wirelessly using Home Assistant mqtt-protocols to control my smart home devices.

Tasks

- Acquire hardware
- Connect hardware
- Setup MQTT broker
- Setup home assistant controller
- Establish connection between ESP and broker over Wi-Fi
- Write executable software to automatically transmit data once per minute
- Save transmitted information in controller database

Definition of Done

When we have created an MVP using a circuit board and light sensor where the user stories are working, we are done. There is no demand on aesthetics or bug fixing.

Acceptance

- Needed components are functional
- All hardware is compatible with each other
- The sample rate of light sensor is at least once per minute
- Receive data wirelessly through Home Assistant (from user's perspective)
- Display received data

Metrics

- Quality of communication.