

Amazon - IR Blaster

CSE 115B, Winter 2020

Nixon Duong, Nikhil Punathil, Peter Eskraus, Tongze Wang, Vincent Thai

Sprint 2 Plan

Amazon - IR Blaster, (3/9/20 - 3/20/20)

Goal:

- Working dialogue for training mode
- Intent for send mode
- Save certain IR frequencies
- Research on peoples with disabilities

Task listing, organized by user story:

Sprint 2 (Total Points: 68):

SPIKE AVS-LIRC Interface: Understand how AVS works and how we can interconnect AVS running on the RPi to the Lirc code.

User Story #3 (34 points): As a developer, I want a basic interface to save certain IR frequencies so that I can test the functionality of the IR transceiver.

Tasks: [Initial Assignments: Nikhil and Peter]

- (17 Points): Implement an wrapper around LIRC
- (17 Points): Test whether IR frequencies were saved by sending them.

User Story #4 (13 points): As a developer, I want to have an interface that connects the hardware code that reads and transmits the frequency with the Alexa Voice Services software running on the RPi.

Tasks: [Initial Assignments: Nixon, Tongze and Vincent]

- (5 Points): Implement Alexa Use Intent
- (3 Points): Set up Amazon dynamoDB configs
- (5 Points): Use node-lirc to set the hardware to write/send mode using the intent handler

User Story #5: (21 points): As a user, I want to be able to ask Alexa to go into training mode and set the hardware to read mode to receive IR signals.

Tasks: [Initial Assignments: Nixon, Tongze and Vincent]

- (14 Points): Implement Alexa Set Up Intent dialogue
(https://docs.google.com/document/d/1JzODWhLMGK-pCLQjaJyNkhZXrbn9RCS_tU7n11bPEil/edit)
- (7 Points): Use node-lirc to set the hardware to read mode using the intent handler

Team Roles:

Nixon Duong - Product Owner, Developer

Nikhil Punathil - Scrum Master, Developer

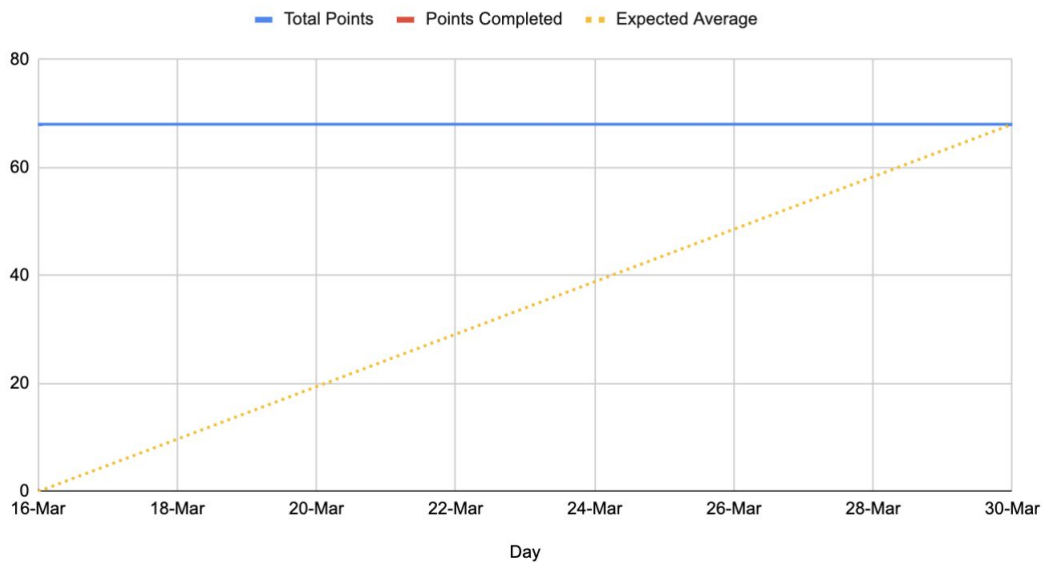
Peter Eskraus - Developer

Tongze Wang - Developer

Vincent Thai - Developer

Initial Burnup Chart:

Alexa enabled IR - Burn Up Chart - Sprint 2



Initial SCRUM Board:

