**User Stories for Alexa-powered Lego Robot**

**Who are the actors for our user stories:**

* Mobility-impaired/visually impaired
* Parent/smart home owner

Basic Functionality:

* **As a** user **I would like to** voice-communicate with my Smart Home device, **so that** I can control my cleaning robot
* **As a** user **I would like to** have a simple command that tells the cleaning robot to clean, **so that** this system is easy to use
* **As a** user **I would like to** know that the cleaning robot will put my mess in an assigned place, **so that** it cleans well
* **As a** user **I would like to** move the cleaning robot with my voice, **so that** I can put it in a room that needs cleaning
* **As a** user **I would like to** know when the room is clean, **so that** I can empty the bin or know when I can assign the robot a new task
* **As a** user **I would like to** know that the robot has begun to clean the room, **so that** I do not necessarily have to physically check
* **As a** user **I would like to** be able to check the remaining battery life of the cleaning robot, **so that** I can charge it if necessary

**Requirements for Alexa-powered Lego Robot**

Overview

*Introduction to the project*

Our Alexa-powered device is a rover LEGO robot designed to clean the floor hands-free in a smart enabled home. The idea was aimed towards mobility/visually impaired smart home owners who could make use of a smart enabled cleaning robot that could aid in cleaning.

We aim to eventually produce a LEGO machine that can roam a normal household avoiding obstacles and recognising things that need to be cleaned, or cleaning rooms according to the house owners instruction through Alexa’s services. Eventually the bot could have other functions that aid a mobility-impaired house owner like retrieve things from high/low places, turn on light switches opening doors or other such basic tasks.

We cannot hope to increase the functionality of the bot to do much more than a few basic cleaning and assistance tasks without making the machine far too large and the code-base far too complex. Thus the final scope of our project will be small LEGO device capable of some general household assistance.

For this iteration of the project and the scope of this year we have some requirements that we will attempt to meet for the project to be considered satisfactory:

* The robot must be able to communicate directly with

*Risk, Issues & Dependencies*