Dear Kristian Medri,

We are on our 4th week and we have currently completed the project proposal and skeleton of the technical report which includes the requirements specification. From the initial stages of the project, everything has been completed in time and as per the schedule. The most substantial change of the capstone project to date has been the replacement of the colour sensor (ISL29125) with a mini push-pull solenoid[1]. The solenoid will be used as a door latching mechanism to demonstrate the transformation of electrical signals to a mechanical movement. Furthermore, in the third week, we presented the division of the work between the three developers as a work breakdown structure.

The main concern that we are facing at this moment is the delay of shipment with respect to the newly ordered parts. A new NFC board (PN532)[2] and a mini push-pull solenoid have both been ordered and the expected arrival date is between February 5th and February 26th. This delays some of our initial implementation and prototyping. Both the mini push-pull solenoid and the new PN532 NFC board have been ordered from Amazon. As a result, our budget has been altered accordingly.

The individual contributions are as follows:

Jacob Ladan

* maintained and updated the blog posts on the GitHub User Page
* technical report skeleton and requirements specifications
* currently working on restructuring the database

Denald Demirxhiu

* updated and pushed document changes to the repository
* technical report skeleton and requirements specifications
* currently working on the mobile application refactoring

Marko Javorac

* ordered the required parts needed for the project
* technical report skeleton and requirements specifications
* currently working on NFC reading software in the Raspberry

Lastly, we have proactively performed the necessary changes to our previous submissions as a result of the feedback provided. All of our current work progress, including any future additions, to this date, can be found on our GitHub User Page:

<https://roomi-develop.github.io/roomi/>

Resources

[1] <https://www.amazon.ca/Adafruit-Mini-Push-Pull-Solenoid-ADA2776/dp/B0722JK1L1>

[2] <https://www.amazon.com/HiLetgo-Communication-Arduino-Raspberry-Android/dp/B01I1J17LC/ref=sr_1_1_sspa?ie=UTF8&qid=1548972427&sr=8-1-spons&keywords=PN532&psc=1>

Looking forward to any further feedback.

Sincerely,

The Roomi Development Team

Denald Demirxhiu

Jacob Ladan

Marko Javorac