CEN 4010 Principles of Software Engineering, Spring 2018

Milestone 1 Project Proposal and High-level description

Team 12: Internet of Things

Group 12

Members:

Ernesto D. Rivero

(riveroe2015@fau.edu)

Michael Anderson

Shawn Ponciano

Kevin Vallejo

Date: 2/10/2018

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| --- | --- | --- | --- | --- |
| History Table | | | | |
|  | Revision # | Revision Date | Revision Description | Revision Notes |
| 1. | V.1 | 2/10/2018 | Completed M1 requirements | N/A |

# 1. Executive Summary

[Fill In]

# 2. Competitive Analysis

|  |  |  |
| --- | --- | --- |
| Key Features | Us | Competitors |
| In the case of power failure, automatically reset to their last known state | No safety measures in place in the case of a power outage |
| Two-factor authentication | Vulnerable security measures |
| Optimized for mobile | Un-optimized for mobile |
| Automatically assign available work station | Requires user interaction |

The advantages of our planned features, as opposed to those of competitors, is the ability to provide consumers with a secure, optimized, and user friendly product. We aim to have the users efficiently, and effortlessly use our product as opposed to the already available applications with obscure user interface and inaccessibility. Also, as a means to cut down the need for interference by an administrator, it is our goal to offer the user an easy automated system.

# 3. Data Definition

[Fill In]

# 4. Overview, scenarios, and use cases

Students would utilize their mobile device to access a website that would be used to gain access to work benches and machines in the Engineering buildings. They would be assigned an available bench. To gain access to work benches and machines, the student would either have to be in a university course that permits the use of the facilities or they would have to be in a special “learn to use” class offered by some faculty members. In any other case the student can show an admin that they can operate the machinery at a competent level, and the admin can allow access. Student use their Z number to log-in. If a assigned bench is not to the student’s liking then they can ask for a reassignment. The student would take a picture of the bench to send, so that an admin can confirm that the bench is not as it should usually be.

Administrators would oversee the benches and allow benches to be used by students who do not meet the formal requirements to use a work bench.

# 5. Initial list of high-level functional requirements

[Fill In]

# 6. List of non-functional requirements Initial list of high-level functional requirements

[Fill In]

# 7. High-level system architecture

[Fill In]

# 8. Team

Ernesto D. Rivero: Product Owner

Michael Anderson: Scrum Master

Shawn Ponciano: Development Team

Kevin Vallejo: Development Team

# 9. Checklist

|  |  |
| --- | --- |
| Tasks | Status |
| Team decided on basic means of communications | DONE |
| Team found a time slot to meet outside of the class | ON TRACK |
| Front and back end team leads chosen | DONE |
| GitHub master chosen | DONE |
| Team ready and able to use the chosen back and front-end frameworks | ON TRACK |
| Skills of each team member defined and known to all | ON TRACK |
| Team lead ensured that all team members read the final M1 and agree/understand it before submission | DONE |