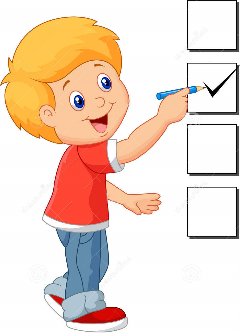
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| --- | --- |
| **Group** 27 | Item Tracker |
| **Major:** | **Team members:** |
| CS | Mohammad Aljagthmi |
| EE | Ryan Ly |
| CEG | Jake Manser |
| CS | Donald Taylor |

****Design Requirements**

*Blue text (like this) should be removed from your submission. List the technical requirements for your project. Precede the requirements list with the list of your design objectives. A complete list of requirements should ensure that all of your design objectives will be satisfied in a manner consistent with your design assumptions. Each requirement should be properly worded per the requirements lecture. We recommend that you number your requirements such that there is room to add to the list in sequence. For instance, number your initial list of requirements by 10s to allow room for 9 new requirements to potentially be added later, as you realize that more requirements are needed. Each requirement should be linked to one or more objectives to show coverage of your design objectives. After your list of requirements, you should define any terms introduced in the requirement statements.* For example…

**Objective 1**: Tracker syncs location with application.

**Objective 2**: Tracker can be reattached to a new object.

**Objective 3**: Tracker has configurable alerts from an application.

**Objective 4**: Tracker has LED light to display alerts.

**Objective 5**: Tracker has replaceable power source.

**Objective 6**: Tracker is resistant.

|  |  |  |
| --- | --- | --- |
| Req No. | Obj No. | Requirement |
| 1 | 1 | Device shall comply with IEEE 802.11 communication standard |
| 2 | 1 | Device shall calculate location using Wi-Fi connection |
| 3 | 1 | Device shall communicate with a mobile application |
| 4 | 2 | Device shall attach to various surfaces |
| 5 | 2 | Device shall removeable from various surfaces |
| 6 | 2 | Device shall be re-attachable to various surfaces |
| 7 | 3 | Device shall receive user configuration for LED operation |
|  |  |  |

*Definitions:*

*Flush- The user activated surge of water into the toilet bowl intended to clear the contents.*

*Bowl- The waste containing receptacle of the toilet.*