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| **Group** 27 | Item Tracker |
| **Major:** | **Team members:** |
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**Design Objectives**

*This document describes a household tracker that can keep track of the location of household objects. The tracker can be attached and removed from household objects manually and without extra tools. Tracker connects and syncs with application using WiFi to interface with the user.*

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

The Tracker records and monitors the location of objects that it is linked to via the application.

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

The Tracker can connect to new objects should the user desire.

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

The Tracker has an application that allows the user to configure some elements describing what object the Tracker is attached to. The application also allows the user to set alert notification for the object.

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

The Tracker comes equipped with an LED light that can be configured to turn on in conjunction with an alert.

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

The Tracker has batteries as a replaceable power source which can be replaced at a specific time when it is needed.

**Objective 6**: Tracker is resistant.

The Tracker is water, pressure, and weather resistant.