Velomobile Control & Telemetry System

Use Case Specification

Store Telemetry Data

Version 1.0

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Ver.** | **Description** | **Author** |
| March 3, 2010 | 1.0 | Initial Composition | Daniel Johnson |

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# Access Web System

## Brief Description

The persistence layer system will be called by the parser to store telemetry data in the database. If data is passed in that a device and sensor is not defined for, it is ignored. This is intentional and no error handling needs to happen here.

## Requirements Trace

2.2.2, 2.2.3, 2.3.1

## Involved Actors

Parser – The parser provides telemetry data to be stored in the database

# Flow of Events

## Basic Flow

This use case begins when the parser has telemetry data it requests to be stored in the database.

1. The parser submits data to the system to be stored in the database.
2. The system verifies that the device and sensor exist in database
   1. If they are not defined the system does not insert data.
3. The system inserts data into database.

# Preconditions

Database is accessible to persistence layer.

# Post Conditions

Sensor data is added into database.

# Scenarios

## Happy Day

**Assumptions**: The device VeloMobile and sensor Light are defined in database and valid sensor data is passed in.

**Steps:**

1. The parser submits a valid light sensor value in for the VeloMobile device.
2. The system verifies that the device and sensor exist in database
3. The system inserts data into database.

## Rainy Day

**Assumptions**: The device VeloMobile and sensor Light are not defined in database and valid sensor data is passed in.

**Steps:**

1. The parser submits a valid light sensor value in for the VeloMobile device.
2. The system verifies that the device and sensor exist in database
3. The system does not find the device or sensor name, does not insert.