# Distributed Remote Environment Sensor System

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## 1 Graphical User Interface

### 1.1 Retrieve and Display Historical Sensor Data

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**7** | Status:**Draft** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Retrieve and Display Historical Sensor Data](http://pisense.zentao.pm/story-view-7.html) | | |
| Description | As a Graphical User Interface user, I want to view historical sensor data on a chart.  This requirement will be considered accepted when it is demonstrated that data from the sensors is displayed on a chart. | | |
| Product | Distributed Remote Environment Sensor System | Module | /Graphical User Interface |
| Linked Plans | Requirements Development | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:0 | EditedBy | Eric Eilberg on 2019-10-07 |

## 2 Data Processing And Storage Application

### 2.1 Receive, Process and Store Remote Sensor Module Data

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**5** | Status:**Draft** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Receive, Process and Store Remote Sensor Module Data](http://pisense.zentao.pm/story-view-5.html) | | |
| Description | We want to be able to receive data from multiple Remote Sensor Modules, denote the data source, and store it in a defined format.  This requirement will be considered accepted when it is demonstrated that data from multiple Remote Sensor Modules is stored in the defined format. | | |
| Product | Distributed Remote Environment Sensor System | Module | /Data Processing And Storage Application |
| Linked Plans |  | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:0 | EditedBy | Eric Eilberg on 2019-10-07 |

### 2.2 Serve Stored Data

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**6** | Status:**Draft** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Serve Stored Data](http://pisense.zentao.pm/story-view-6.html) | | |
| Description | We want to respond to requests for stored data by providing the requested data.  This requirement will be considered accepted when it is demonstrated that an external entity receives requested data. | | |
| Product | Distributed Remote Environment Sensor System | Module | /Data Processing And Storage Application |
| Linked Plans |  | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:0 | EditedBy | Eric Eilberg on 2019-10-07 |

## 3 Remote Sensor Module

### 3.1 Collect Environment Sensor Data

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**1** | Status:**Active** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Collect Environment Sensor Data](http://pisense.zentao.pm/story-view-1.html) | | |
| Description | We want the RSM to collect ambient temperature and humidity sensor data .  This requirement will be considered accepted when the RSM is demonstrated to capture relative timestamped data which corresponds to changes in ambient conditions | | |
| Product | Distributed Remote Environment Sensor System | Module | /Remote Sensor Module |
| Linked Plans |  | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:2 | EditedBy | Kevin on 2019-10-07 |

### 3.2 Store Collected Data

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**2** | Status:**Draft** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Store Collected Data](http://pisense.zentao.pm/story-view-2.html) | | |
| Description | We want to store the collected environment sensor data for future use.  This requirement will be considered accepted when collected data is demonstrated to be stored and readable. | | |
| Product | Distributed Remote Environment Sensor System | Module | /Remote Sensor Module |
| Linked Plans |  | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:0 | EditedBy | Eric Eilberg on 2019-10-07 |

### 3.3 Transmit Data to the Data Processing and Storage Application

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**3** | Status:**Draft** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Transmit Data to the Data Processing and Storage Application](http://pisense.zentao.pm/story-view-3.html) | | |
| Description | We want to be able to retrieve our stored data and transmit it to the Data Processing and Storage application.  This requirement will be considered accepted when it is demonstrated that a Data Processing and Storage application receives the transmitted data. | | |
| Product | Distributed Remote Environment Sensor System | Module | /Remote Sensor Module |
| Linked Plans |  | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:0 | EditedBy | Eric Eilberg on 2019-10-07 |

### 3.4 Purge Successfully Transmitted Data

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| |  |  |  |  |  | | --- | --- | --- | --- | --- | | ID:**4** | Status:**Draft** | Phase:**Planned** | Priority:**3** | Estimates:**0** | | | | |
| Title | [Purge Successfully Transmitted Data](http://pisense.zentao.pm/story-view-4.html) | | |
| Description | When the Data Processing and Storage application receives our transmitted sensor data, we want to purge that data from our local storage.  This requirement will be considered accepted when it is demonstrated that locally stored data is appropriately purged. | | |
| Product | Distributed Remote Environment Sensor System | Module | /Remote Sensor Module |
| Linked Plans |  | From | Product Owner |
| Tags |  | Mailto |  |
| CreatedBy | Kevin on 2019-10-02 | AssignTo |  |
| ReviewedBy |  | ClosedBy |  |
| Task/Bug/Case | T:0 B:0 C:0 | EditedBy | Eric Eilberg on 2019-10-07 |