ClassName: Field Station

Purpose:
- Container for stored sensor data and List of sensors. Has operations to add new sensor

Collaborators
- User Account
- Set of sensors
- Sensor Data
- Server

Responsibilities
- Add, Edit, Remove Sensor
- Contains set of sensors
- Hold buffer of SensorData;
- Upload Buffer of SensorData to the Server

ClassName: Sensor

Purpose:
- Bridge gap to Physical sensor
- Has unit measurement, GPS data and has connected Actuators

Collaborators
- GPS Data
- Set of sensors
- SensorData
- Actuator

Responsibilities
- Read in data from sensor
- Construct SensorData on reading
- Set repeating intervals for sensor to read
- Assigned under Set of sensors, processes requests from Field Station
- Communicates with Actuator to respond to certain data threshold

ClassName: User Account

Purpose:	Collaborators
-Store User Login detail -Contains/Encapsulates Field Stations	Server Field Station

Responsibilities
-Validates Login details from Interface -Processes details for creating, Editing, Field stations.

ClassName: Historical Data

Purpose:	Collaborators
-Collection class for Sensor Data based on individual Sensor ID	Report Server Sensor Data

Responsibilities
-Stores Sensor Data -Historical data is stored under Server -The actual data contained within Report

ClassName:	Interface	
Purpose: Present Visual interface to the user		**Collaborators** - Server - Report
Responsibilities - Display List of Sensors and Field station - Display Sensor Readings - Admin functions - Add/Edit/Delete FS and Sensors - Relays user request to Server		

ClassName:	Server	
Purpose: Contains list of user accounts and Historical Data and Field Stations		**Collaborators** - User Account - Interface - Field Station - Historical Data - Report
Responsibilities - Carries out any user requests - Container for Historical data of readings of all sensors - Contains List of all Field stations - Creates Reports		

ClassName: SensorData

Purpose:
-Individual Unit/Reading of data from
Sensor

Collaborators
-Sensor
-Historical Data
-GPS Data
-Field Station

Responsibilities
-Contain Individual reading of Sensor
    -Measurement Type/Unit
    -Reading Value
-Store GPS Data for each reading
-Is stored as a buffer under
Field Station

ClassName: Set Of Sensors

Purpose:
-Encapsulate Sensors

Collaborators
Sensor
Field Station

Responsibilities
-Retrieve Sensor
-Stores Sensor corrosponding to Field
Station

ClassName: Report	
Purpose: -Process queries from User -Gather the data and send to display in User Interface	**Collaborators** Interface Server Historical data
Responsibilities -Retrieve list of Historical Data based on user queries -Is created from Server, displayed on the Interface	

ClassName: Actuator	
Purpose: Carry out automated Response based on Reading/theshold	**Collaborators** Sensor
Responsibilities -Activating/Deactivating the Physical Actuator	