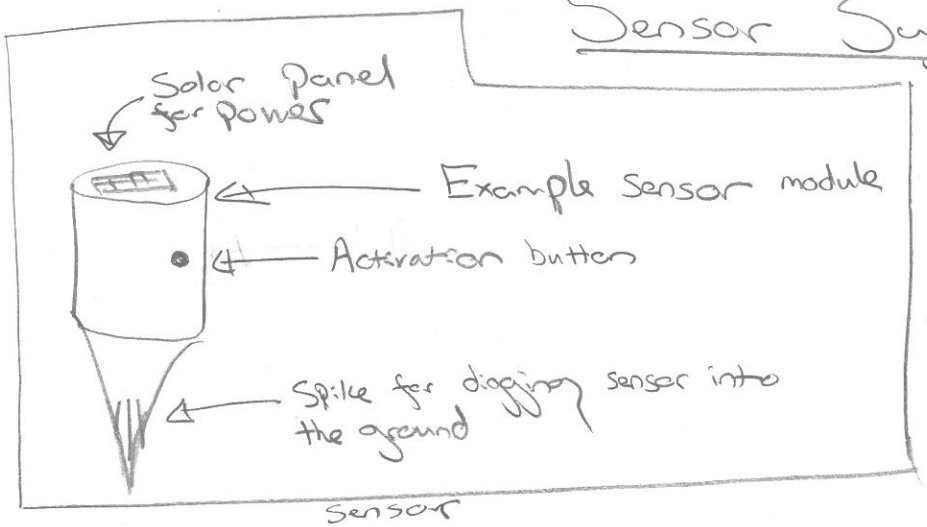
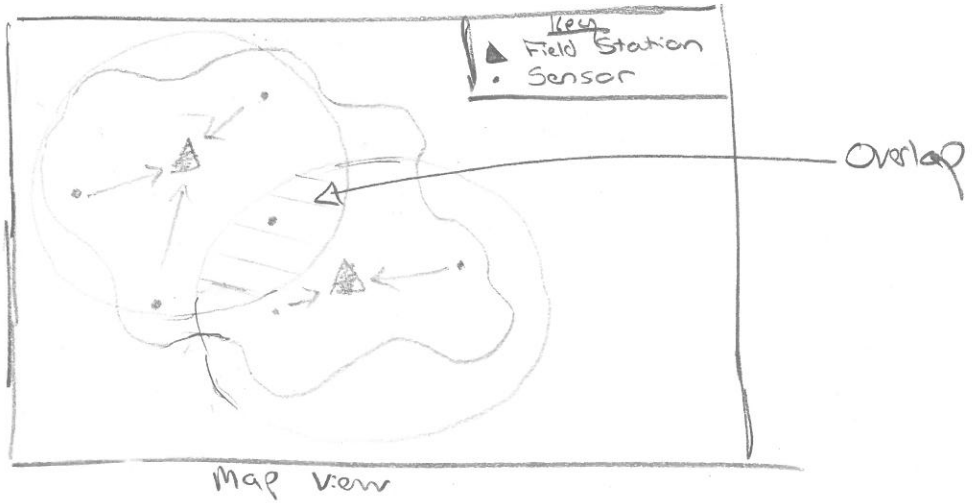
# Sensor Synchronisation




Sensor

Sensors are wireless and can be automatically added to the Field Station if it is in range of one.

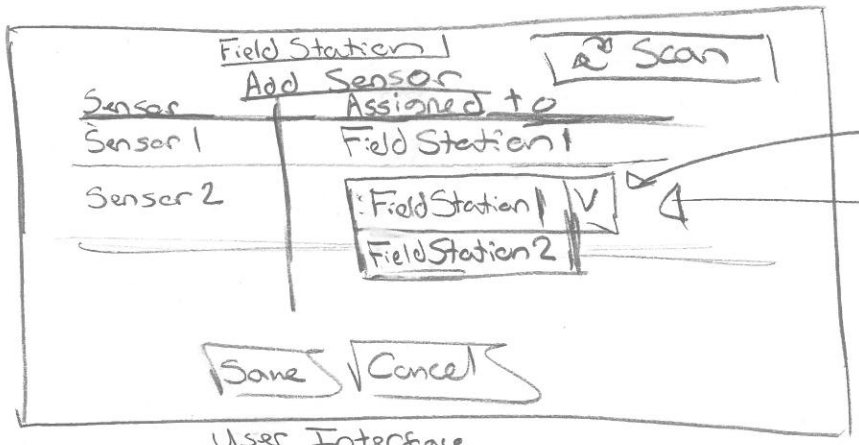
To activate the sensor, the sensor's activation button can be pressed to turn the sensor on and make it discoverable to any field Stations in range.




Map View

Field Stations can look for any nearby active sensors. Should there be a sensor that is in range of two field Stations, this is an overlap (see picture on left). This can be easily rectified with the user interface.

The user interface has an "add sensor" screen. The user can scan for sensors in range of the selected field station. By default, sensors are automatically assigned to field Stations, but a drop-down menu of field Stations can resolve any overlaps.




Dropdown menu

Resolving "overlap"

User Interface

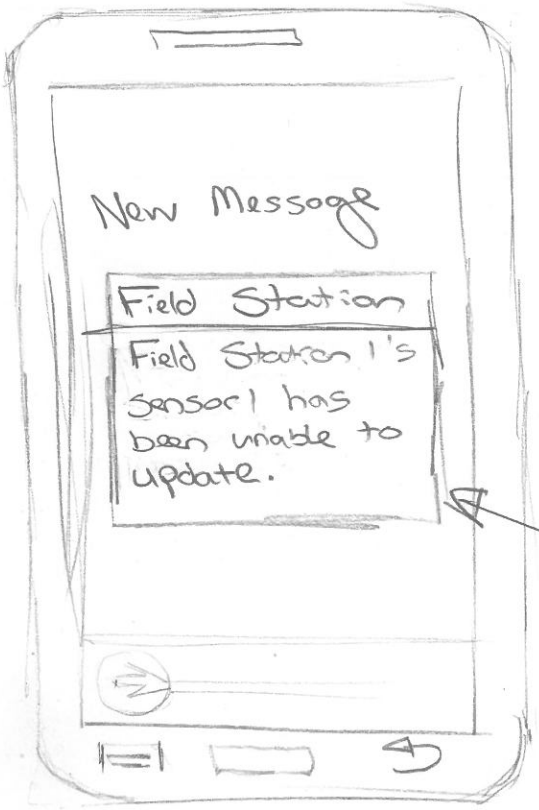
# Automatic Alert System

Sensors may become damaged over time
They may also run out of power or stop returning readings.

If the user registers their phone number with the system, they can receive text alerts when sensors don't function properly

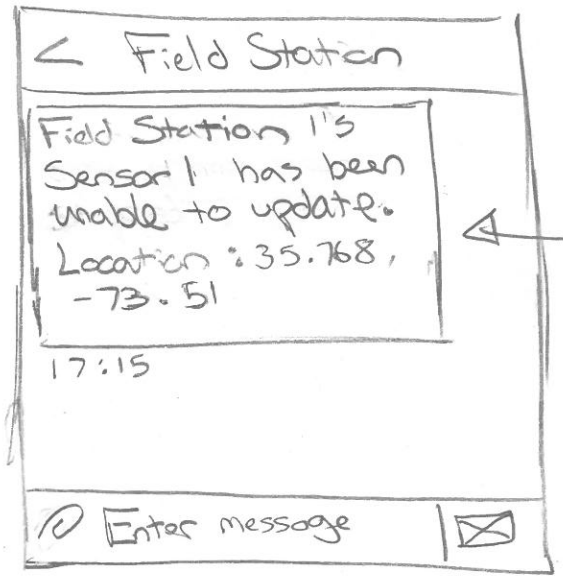
Text includes location of the sensor and details of the issue.

The user can then inspect the sensor manually



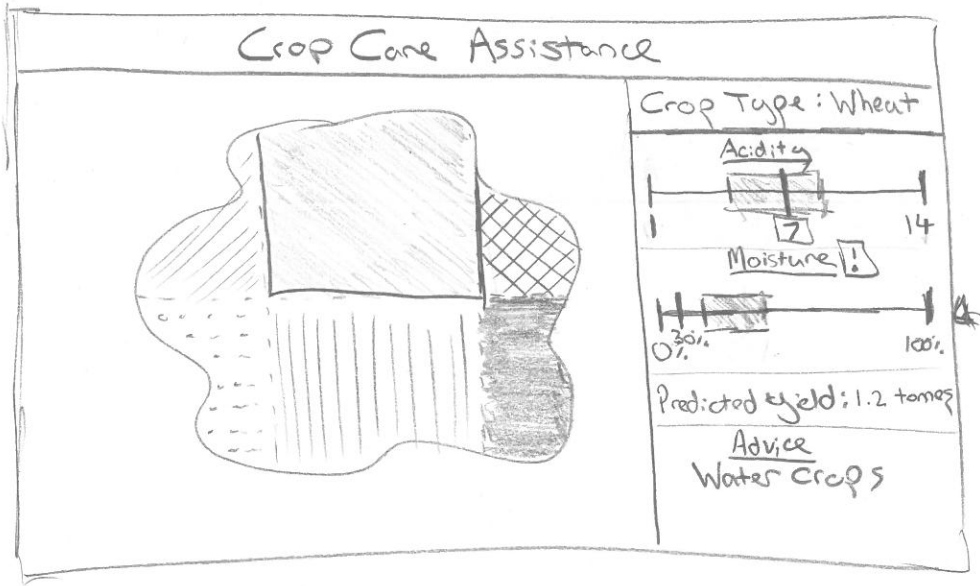

Push notification

Mobile phone device




Full message

# Crop Care Assistance




- Identifies ideal values for different crops
- Warns users when long-term values are outside ideal range
- Suggests possible remedies
- May predict harvest based on past yields with similar conditions

Example of an "alert" if actual values are outside ideal range.