**Use Case 2: Respond to environmental status**

**Primary Actor:** Plant

**Scope:** Plant environment regulation system

**Level:** User goal

**Stakeholders and Interests:**

Botanist/gardener—wants to successfully grow plant

**Precondition:** Plant is in suitable pot, sensors are properly placed and connected to system, system is connected to desktop server.

**Minimal Guarantee:** System will gather data about plant growth and store in database to use in next run.

**Success Guarantee:** Plant survives to maturity.

**Main Success Scenario:**

1. Plant exhibits signs of growth (increased size, greener color, blooming)
2. System notes signs of growth and maintains current environment variables.

**Extensions:**

1a. Plant exhibits signs of weak growth or health deterioration (wilting, browning, etc.)

1a1. System alerts user and adjusts environment variables.

2a. Environment variables change past allowable tolerances.

2a1. System adjusts watering schedule to account for change in moisture, humidity, or temperature readings.

2a2. System adjusts light schedule to account for changes in ultraviolet and overall light readings.