* **To use an autonomous system to maintain a habitat for plant life. **

**Primary Actor:** User

**Scope:** a plant habitat maintenance and monitoring system with user interface (PHMMSUI)

**Level:** ! (User goal [sea level])

**Stakeholders and Interests:**

Private home users – Maintain a habitat for growing personal plants

Potential corporate users – Maintain a habitat for a growing operation

**Precondition:** User has hardware and living plant with a desktop server available

**Minimal Guarantees:** System will collect data on habitation, regardless of plant life success

**Success Guarantees:**

The plant will be kept alive

The habitat will be correctly adjusted and maintained by the system

**Trigger:** User requests the system maintain a plant/habitat

**Main Success Scenario:**

1. Initial setup – Designate plant location, place sensors appropriately, connect hardware to home server.
2. Set system variables – Type of plant, types of sensors, initial care schedules and sensor thresholds.
3. Autonomous system takes over – The system now monitors and adjusts itself to provide a tailored care schedule for the plant in question
4. Plant grows continuously until user changes the system

**Extensions:**

3a) User feedback override – The user can adjust the care schedules to help guide the

autonomous system if an adequate job is not being performed

4a) Plant dies, but the system can gain valuable information about what it has done incorrectly

for future operation