

### AI System for Environmental Monitoring:

- **Components:** AI module, Soil Moisture Sensor (SM), Temperature Detector (T), Light Detector (L)
- **Functionality:** Real-time data collection on plant environmental conditions.
- **Objective:** Replace traditional plant care methods and streamline monitoring.

### Soil Moisture Level Adjustment:

- **Components:** Soil Moisture Sensor (SM), Watering System
- **Functionality:** Adjust watering when dry soil is detected (SM = True), maintain routine when within the desired range (SM = False).
- **Objective:** Optimize water usage, ensure adequate moisture for plants.

### Adaptive Light Control:

- **Components:** Light Detector (L), Light Adjustment System
- **Functionality:** Dynamically adjust lighting conditions based on insufficient light detection (L = True).
- **Objective:** Ensure plants receive optimal light for photosynthesis.

### Temperature Optimization:

- **Components:** Temperature Detector (T), Temperature Control System
- **Functionality:** Adjust temperature outside the desired range (T = True), maintain conditions within the desired range (T = False).
- **Objective:** Create an optimal climate for plant growth.

### User-Friendly Interface:

- **Components:** Mobile/Web Application, User Dashboard
- **Functionality:** Real-time monitoring, personalized recommendations based on collected data.
- **Objective:** Enhance user engagement and satisfaction.

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