Acceptance Criteria

Software Acceptance Criteria

No.	Feature Module	Detailed Task Description with Details and Functionalities	Estimated Story Points	Task Rating
1	Plant Health Monitoring	The system must utilize an infrared camera to continuously monitor plant health.	3	High
2	Notification System	The system must automatically send notifications to the user when signs of plant disease are detected.	2	High
3	Irrigation Adjustment	The irrigation system must adjust in real-time based on temperature data from the infrared camera.	3	Medium
4	Water Optimization	The system must provide water optimization recommendations for different growth stages.	3	Medium
5	Growth Stage Tracking	The system must track and record key growth stages for each plant using thermal imaging data.	3	High
6	Growth Stage Notifications	Notifications of key growth stages must be sent to the user through the app.	2	Medium
7	Reporting	The system must generate detailed reports on crop growth from	5	High

		thermal imaging data.		
8	Data Accessibility	Reports should be accessible to the user for data-driven decision-making.	2	Medium
9	Health Issue Detection	Infrared imagery must be analyzed by the system to detect crop health issues.	3	High
10	Health Issue Alert	The system must alert the administrator when potential health issues are detected.	2	High

Hardware Acceptance Criteria

No.	Feature Module	Detailed Task Description with Details and Functionalities	Estimated Story Points	Task Rating
11	Display Integration	Real-time thermal imaging must be displayed on the Raspberry Pi OS.	3	High
12	Remote Monitoring	The system must support remote monitoring capabilities.	4	High
13	Camera Interface Compatibility	The system must be compatible with the FLIR camera's data interface type.	3	High
14	Communication Strategy	A communication strategy must be developed to integrate with FarmBot's mainboard.	4	Medium
15	Sensor Installation	Sensor dimensions and mounting details must be specified for stable installation.	2	High

16	Design Accommodation	The design must accommodate FarmBot's operational environment.	2	Medium
17	Plug-and-Play Support	The FLIR camera integration must support plug-and-play functionality.	3	Medium
18	Hardware Adaptability	Hardware adjustments must be possible for enhanced adaptability.	3	Low
19	Power Cable Compatibility	The power cable of the camera must accommodate the range of motion of FarmBot's arm.	2	Medium
20	Power Specification	Power specifications of the new sensor must match FarmBot's electrical system.	3	High

AI Acceptance Criteria

No.	Feature Module	Detailed Task Description with Details and Functionalities	Estimated Story Points	Task Rating
21	Growth Stage Analysis	AI must interpret thermal data to monitor plant growth stages.	5	High
22	Report Generation	AI must assist in generating reports for crop growth analysis.	5	High
23	Health Assessment	AI must analyze infrared images for timely crop health assessment.	3	Medium