

				Date	19 November 2022							
				Team ID	PNT2022TMID34928							
				Project Name	IOT BASED SMART CROP PROTECTION SYSTEM							
				Maximum Marks	4 marks							
Test case ID	Feature Type	Component	Test Scenario	Steps To Execute	Test Data	Expected Result	Actual Result	Status	Comments	TC for Automation(Y/N)	BUG ID	Executed By
LoginPage_TC_O01	Functional	Home Page and Login Page	Verify user is able to open the app and view the home page and login page?	1.Install the app and open it home page can be viewed 2.Login page opens after few seconds		Home page should display	Working as expected	Pass	—	No		J. Jeen Libera
LoginPage_TC_O02	UI	Login page	Verify user is able to login using the login credentials?	1. Enter login credential 2.Click on login button	Username:Agrosmart@123 Password:1234	Can be logged in	Working as expected	Pass	—	No		J. Jeyanthi
Dashboard_TC_O03	Functional	Dashboard	Veriify user can veiw the dashboard and nagivate to different pages by clicking appropriate option?	1.Dashboard page opens as soon as the user clicks login 2.Click each button to navigate to different pages		Dashboard should appear and must be able to operate the buttons	Working as expected	Pass	—	No		J. Jeyanthi
Weather MonitoringPage_TC_OO4	UI	Weather Monitoring page	Verify user can view the current temperature and humidity values in "Weather Monitoring" page?	1.Click "Weather Monitoring" button		Current temperature and humidity values can be viewed	Working as expected		—	No		J. Jeen Liberta
Notification_TC_OO5	Functional	App Notification	Verify user can receive a notification if the temperature and humidity is not optimum?	1.Notification can be viewed by the user on opening the app		Application should display correct notification for temperature and humidity values only when it is not optimum	Working as expected	Pass	—	No		J. Jeyanthi
Water Pump Page_TC_OO5	Functional	Water Pump page	Verify user can view the current soil moisture value in "Water pump" page?	1.Click "Water Pump" button 2.View soil moisture values		Current soil moisture value can be viewed	Working as expected	Pass	—	No		J. Jeen Liberta
Water Pump Page_TC_006	Functional	Water Pump page	Verify user can turn ON/OFF the water pump manually ?	1.Click "Water Pump" button 2."Water pump" page appears 3.Click either "Motor ON" or "Motor OFF" button to manually operate the motor		Motor should be manually operatable	Working as expected	Pass	—	No		J. Jeen Liberta
Automatic water pump control_TC_007	Functional	Water Pump page	Verify that the water pump can be automatically turned ON/OFF if soil moisture is not optimum?	1.If the soil moisture value is less than 20 then the motor turns ON automatically 2. If it exceeds 20 then the motor turns OFF automatically		"Water Pump is turned On" should	Working as expected	Pass	—	No		M. Shaima

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Actuator Status Page_TC_008	Functional	Actuator Status page	Verify user can view the LED and speaker status in "Actuator Status" page and can automatically be operated in case of threat ?	1.Click "Actuator Status" button 2."Actuator Status" page appears 3.Now LED and Speaker Status can be viewed 4.Incase of threat LED and speaker will be automatically turned on		In case of threat "LED is tuned ON" and "Speaker is turned on statement should be displayed in python shell" . LED and Spesker Status can be viewed	Working as expected	Pass	–	No		C.T. Jaya Sree
Motion detection_TC_009	Functional	Motion Detection	Verify that the motion of animals can be detected ?	1. Sense the motion by PIR sensor 2.Turn On ultrasonic sensor 3.Find the distance at which the animal is present		"Movement detetected" and "ultrasonic sensor is turned on " messages should be displayed on python shell .Distance should be found and displayed	Working as expected	Pass	–	No		M. Shaima
Camera_TC_010	Functional	Animal detection	Verify that the camera can be turned ON and video can be captured?	1. If distance is less than 200m turn ON the camera 2.Video of the animal should be captured	Video of any animal	Display whether the camera is tuned ON in the python shell	Working as expected	Pass	–	No		J. Jaya Sree
Classification Of Threat_011	Functional	Threat Classification	Verify animal can be identified and then classified as threat or not?	1. Identify the animal using Open CV 2.Display name of the animal 3.Classify it as a threat or not		Display the name of the intruded animal and if it is a threat send animal name to ibm watson	Working as expected	Pass	–	No		M. Shaima
Notification_TC_012	Functional	App Notification	Verify user can receive a notification with image and name of the animal if it is a threat?	1.Notification can be viewed by the user on opening the app		Application should display correct notification with the name and image of the classified animal The animal if threat can be shown in "Actuator Status" page	Working as expected	Pass	–	No		J. Jeyanthi
Customer Support page_TC_013	UI	Customer Support page	Verify user can view "Customer Support" page and submit his queries and feed back?	1.Click "Customer Support" button 2.Now a google feedback form appears 3.User can submit it		Google forms can be submitted by the user and can be received by the customer care executive	Working as expected	Pass	–	No		J. Jeyanthi
Weather Updates page_TC_014	UI	Weather Updates page	Verify that the user can view the "Weather Updates" page and view the current weather conditions?	1.Click "Weather Updates" button 2.Now openweathermap website opens where the user can view the weather updates		Should be able to view the weather updates	Working as expected	Pass	–	No		J. Jeyanthi
Web UI_015	Functional	Web User Interface	Verify Web UI from node red can be viewed?	1.Enter the URL in browser 2.View the User Interface	http://169.51.204.185:30908/ui	Should be able to view the components in UI and can initiate commands by clicking the buttons	Working as expected	Pass	–	No		C.T. Jaya Sree

Test Scenarios

Sl. No.	Test Scenarios
1	Verify user is able to open the app and view the home page and login page?
2	Verify user is able to login using the login credentials?
3	Veriify user can veiw the dashboard and nagivate to different pages by clicking appropriate option?
4	Verify user can view the current temperature and humidity values in "Weather Monitoring" page?
5	Verify user can receive a notification if the temperature and humidity is not optimum?
6	Verify user can view the current soil moisture value in "Water pump" page?
7	Verify user can turn ON/OFF the water pump through the app ?
8	Verify that the water pump can be automatically turned ON/OFF if soil moisture is not optimum?
9	Verify user can view the LED and speaker status in "actuator status" page and can automatically be operated in case of threat ?
10	Verify that the motion of animals can be detected ?
11	Verify that the camera can be turned ON and video can be captured?
12	Verify animal can be identified and then classified as threat or not?
13	Verify user can receive a notification with image and name of the animal if it is a threat?
14	Verify user can view "Customer Support" page and submit his queries and feed back?
15	Verify that the user can view the "Weather Updates" page and view the weather forecasting?
16	Verify Web UI from node red can be viewed?