ACCEPTANCE TESTING

UAT INITIATION AND DESIGN

TEAM ID	PNT2022TMID44357
PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
	16 NOV 2022
MAXIMUM MARKS	4 MARKS

Test case ID	**Feature type**	**Component**	**Test Scenario**	**Pre-Requisite**	**Steps to Execute**	**Expected result**	**Actual result**	**Status**	**Executed by**
TC_OO1	Functional	IBM cloud	Create the IBM Cloud services which are being used in this project.	IBM Cloud Login ID & Password	1.IBM Cloud signup page 2.Enter e-mail id and other credentials	User should sign up IBM cloud and details should be verified	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S
TC_OO2	Functional	IBM Cloud	Configure the IBM Cloud services which are being used	IBM Cloud Login ID & Password	1.Go to Cloud login 2.Enter user ID & Password 3.Verify login	User login to IBM Cloud and should be navigated to IBM Cloud dashboard page	Working as expected	Pass	Pooja N L Deepika A Sakthi S

			in completing this project.						Swasthika M S
TC_OO3	Functional	IBM Watson IoT Platform	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	IBM Watson IoT Platform Login ID & Password	1.IBM Cloud 2.Click Catalog 3.Search IoT and click create 4. Resource list and search Internet of Things platform 5.Press Launch and click Sign in IBM Watson Platform	User should be navigated to IBM IoT Watson Platform	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S
TC_OO4	Functional	IBM Watson	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	IBM Watson IoT Platform Login ID & Password	1.Login to IBM Watson Platform 2. Click Add Device 3.Enter the details and click Finish. 4.Turn on Device Simulator and click simulation running. Enter the values.Click Send.	Temperature, Humidity , Soil moisture sensor values should be randomly generated	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S

TC_OO5	Functional	IBM Cloud(Node Red)	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	Node Red Installation	1.Install node red and open node red in command prompt 2.Select IBM input in IoT	User should be able to see the Node Red page	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S
TC_OO6	Functional	Node Red	Create a Node-RED service.	Node Red Installation	1.Select IBM IoT input in Node. In IBM IoT Watson Platform, go to apps and click on generate API keys.2.Copy & paste generated API key and token in the IBM IoT input. 3.Add debug to the IBM IoT and rename as Msg.payload and click on done. 4.Edit function node. 5.Finally add motor ON/OFF buttons to the IBM IoT and debug. Verify the output from NODE RED using Local host link.	Values of sensors and button for motor ON/OFF should be displayed	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S

TC_007	Functional	Python 3.7.0	Develop a python script to publish random sensor data such as temperature, humidity level, soil moisture to the IBM IoT platform	Python 3.7.0(64 bit) installation	1.Download and install Python 3.7.0 2.Develop python code	User should be able to develop a python code	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S
TC_OO8	Functional	Python 3.7.0	After developing python code, commands are received just print the statements which represent the control of the devices.	Python 3.7.0(64 bit) installation	1.Downlinstall Python 3.7.0 2.After python code	User should be able to get the results from the developed code	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S
TC_OO9	Functional	IBM Cloudant DB	Publish Data to The IBM Cloud	IBM Cloud Login ID & Password	1.Install node red and open node red in command prompt 2.Select IBM input in IoT	User should be able to see the Node Red page	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S

TC_O10	Web UI	Node Red & MIT Inventor	Create Web UI in Node- Red	MIT Inventor Login ID & password	1.Go to Node Red. Select http in & http response. Add functions .Connect them to IBM IoT output and function.Print the command statements such as motor ON/OFF and sensor 2.Go to MIT app inventor and create frontend Add blocks and so on to create back end. Verify the output.	Sensors values and command values should be seen in the mobile application	Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S
TC_O11	Functional	IBM Cloudant DB	Configure the Node-RED flow to receive data from the IBM IoT platform and also use Cloudant DB nodes to store the received sensor data in the cloudant DB	IBM Cloud Login ID & Password			Working as expected	Pass	Pooja N L Deepika A Sakthi S Swasthika M S