Project Planning Phase
Milestone and Activity List

Team -ID	PNT20222TMID37200
Project Name	Project -IOT Based Smart Crop Protection System for Agriculture

TITLE	DESCRIPTION	DATE
IBM cloud service	IBM cloud provides solutions that enable higher levels of Compliance, security, management with proven architecture patterns and methods for rapid delivery for running mission critical workloads	20 October 2022
Software	Install the python IDE	4 October 2022
Create an account in Clarifai	Create an account in clarifai. To detect the animals and birds are using an open source platform	.10 October 2022
Create IBM Watson IOT Platform and device	IBM Watson AI for business Watson helps organizations predict future outcomes automate complex processes and optimize Employee's time	20 October 2022
Create NODE RED service	NODE RED provides a browser based flow editor that makes it easy to wire together flows using the wide range of nodes in the palette	25 October 2022
Create a database in	Launch the cloudant DB	25 October 2022

cloudant DB	and create a database to store the image URL.	
Create a Cloud Object storage service	To create a cloud object storage service, create a bucket to store the images, and configure the bucket settings.	25 October 2022
Develop a python script	Publish the sensor parameters like Temperature, Humidity, and Soil Moisture to the IBM IoT platform Detect the animals and birds in video streaming using the Clarifai service.	31 October 2022
Develop a web application using node – red service	Display the image in the Node-RED web UI and also display the temperature, humidity, and soil moisture levels. Integrate the buttons in the UI to control the Motors.	16 November 2022
Literature survey on the selected project and information gathering	In this activity you are expected to gather/collect the relevant information on project user case, refer the existing solutions, technical papers, research publications etc.	1 September 2022
Prepare Empathy map	Project empathy map canvas to capture the user paints & Gains prepare list of problem statements.	8 September 2022

Ideation	In this activity you are expected to list the ideas (at least 4 per each team member) by organizing the	15 September 2022

	brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	
Proposed solution	In this activity you are expected to prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	20 September 2022
Problem solution fit	Prepare problem solution fit document.	27 September 2022
Solution architectural	In this activity you are expected to prepare solution architecture document and submit for review.	29 September 2022
Customer journey	Prepare the customer journey maps to understand the uses interactions & experiences with the application (entry to exit).	5 October 2022
Functional requirement	Prepare the functional requirement document.	11 October 2022
Data flow diagram	Draw the data flow diagram and submit for review.	11 October 2022
Technology architecture	. In this activity you are expected to draw the technology architecture	14 October 2022
Prepare Milestone & Activity list	Prepare the milestone & activity list of the project.	22 October 2022
Sprint Delivery Plan	To create the sprint 1, sprint 2, sprint 3, and sprint 4.	22 October 2022
Project Development phase	In this milestone we start the project development and	14 November 2022

	expect to perform the coding and solutioning, acceptance, testing, performance testing based as per the sprint	
Project development – delivery of sprint -1	In this activity you are expected to develop & submit the developed code by testing it.	18 November 2022
Project development – delivery of sprint -2	In this activity you are expected to develop & submit the developed code by testing it.	18 November 2022
Project development – delivery of sprint -3	In this activity you are expected to develop & submit the developed code by testing it.	19 November 2022
Project development – delivery of sprint -4	n this activity you are expected to develop & submit the developed code by testing it.	19 November 2022