

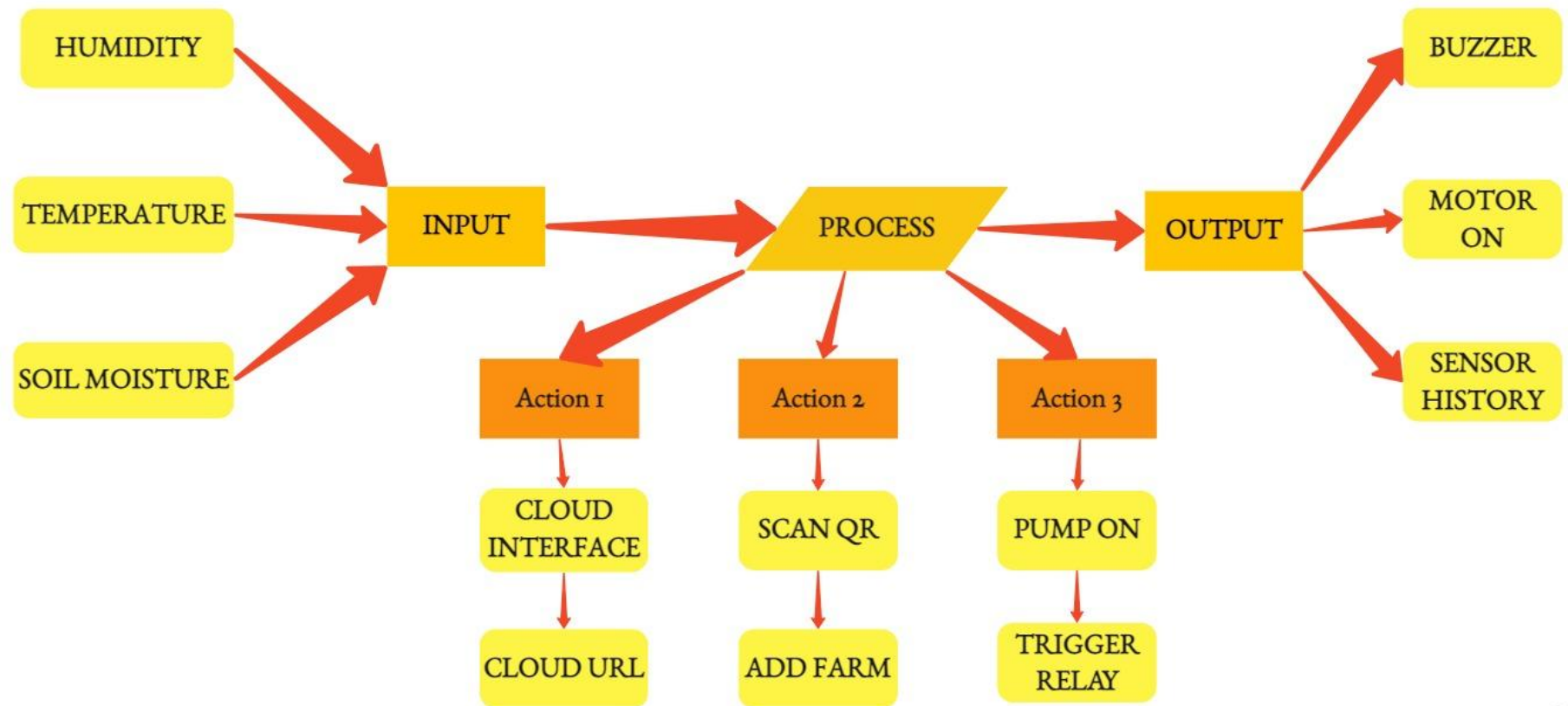
**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

Date	03 October 2022
Team ID	PNT2022TMID14876
Project Name	Project - Smart farmer-IoT-based smart farming application
Maximum Marks	4 Marks

**Project flow:**

- The parameters like temperature, humidity, and soil moisture are updated to the Watson IoT platform
- The device will subscribe to the commands from the mobile application and control the motors accordingly
- APIs are developed using Node-RED service for communicating with Mobile Application
- A mobile application is developed using the MIT App inventor to monitor the sensor parameters and control the motors.

## Data flow diagram:



## User Stories

list of all the user stories for the Smart farming application are as follows;

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Farmer-Mobile user	End User-Mobile app	USN-1	I have to check the temperature value of my field.	Click on the button to view the temperature.	High	Sprint-1
		USN-2	I have to monitor the soil moisture content near my crops.	Click on the button to view the moisture content.	High	Sprint-1
		USN-3	I have to measure the humidity conditions for crop storage.	Click on the button to view the crop storage..	Low	Sprint-2
		USN-4	I have to measure the current temperature and compare it with previous temperature.	Click on the option to compare results.	Medium	Sprint-1
		USN-5	I have to visualize the graph of crop production.	Click on the graph button to visualize the results.	High	Sprint-1

User Type	Functional Requirement (Epic)	User Story Number	User Story / Task	Acceptance criteria	Priority	Release
Livestock management	Sheperd	USN-1	I have to keep the track of livestock and their location.	Click on the ocation to track the position of cattle.	High	Sprint-1
		USN-2	I have to monitor the cattle health condition	Click on the button to measure the cattle temperature.	High	Sprint-1
		USN-3	I have to know about the livestock products storage condition.	Click on the button to check the storage room condition	High	Sprint-1
		USN-4	I have to check on the net turn over from the livestock.	Click on the button to calculate the total profit.	Low	Sprint-2