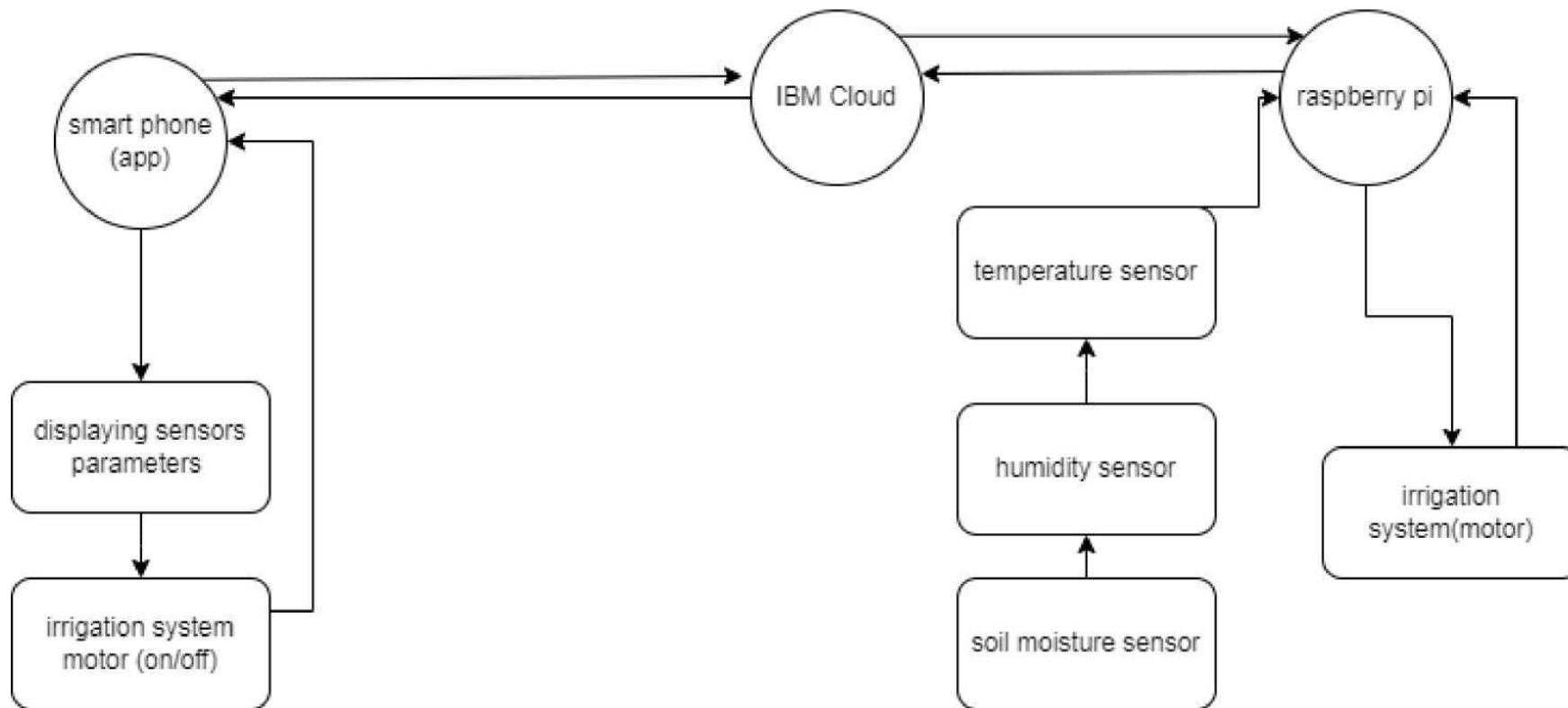


**Project Design Phase-II**  
**Data Flow Diagram & User Stories**

|                     |  |
|---------------------|--|
| <b>Team ID</b>      | PNT2022TMID49367                                     |
| <b>Project Name</b> | Smart Farmer - IoT enabled smart Farming Application |

**Data Flow Diagram:**



**User Stories:**

| User Type           | Functional Requirement (Epic)     | User Story Number | User Story / Task  | Acceptance criteria                         | Priority | Release  |
|---------------------|-----------------------------------|-------------------|--|---|----------|----------|
| Farmer (Mobile app) | Displaying sensor parameters      | USN-1             | Farmer can view temperature, humidity and soil moisture in his mobile connected to IBM cloud   | Displaying sensor parameters                | High     | Sprint-1 |
| Farmer (Mobile app) | Controlling irrigation            | USN-2             | After seeing the sensor parameters farmer can turn on or off the irrigation system(motor)using mobile phone                                    | Controlling irrigation system               | High     | Sprint-1 |
| Raspberry pi        | Microcomputer setup in farm field | USN-3             | Temperature sensor, humidity sensor, soil moisture sensor and irrigation system is interface with raspberry pi which is connected to IBM cloud | Smart farming system is setup in farm field | High     | Sprint-2 |
| IBM cloud           | IoT(data transfer)                | USN-4             | Raspberry pi is connected to IBM cloud to monitor and control farm field remotely using internet   | Data exchange using internet                | Medium   | Sprint-1 |