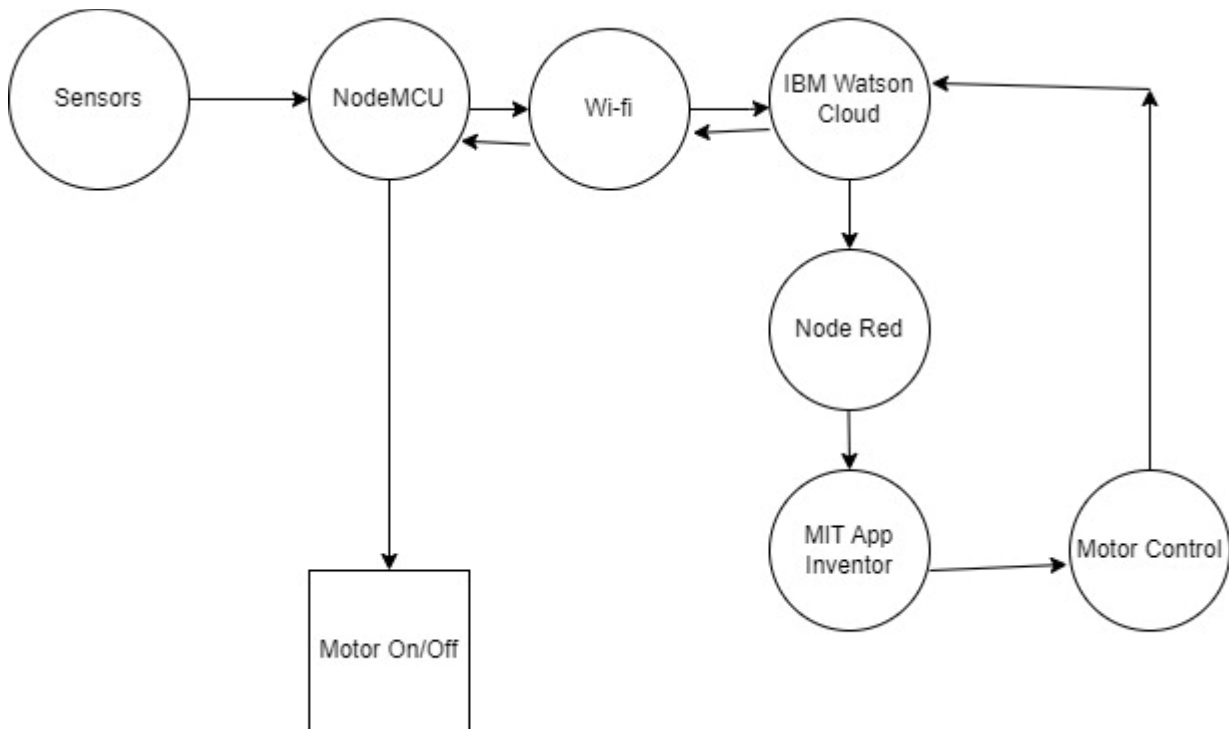


DESIGN PHASE II

DATA FLOW DIAGRAM

Project Title : SmartFarmer - IoT Enabled Smart Farming Application

Team Id : PNT2022MID32489



- The different soil parameters (temperature, humidity) are sensed using different sensors and the obtained value is stored in IBM cloud.
- ☐ The L298N is a Motor Driver IC which can control a set of two DC motors simultaneously in any direction.
- ☐ NodeMCU is used as a processing unit which processes the data obtained from sensors.
- ☐ Node-RED is a programming tool for wiring together hardware devices, APIs and online services in new and interesting ways. It provides a browser-based editor.
- ☐ All the collected data are provided to the user through a mobile application which was developed using MIT app inventor.
- ☐ The user could make decision through an app, whether to water the crop or not, depending upon the sensor values.