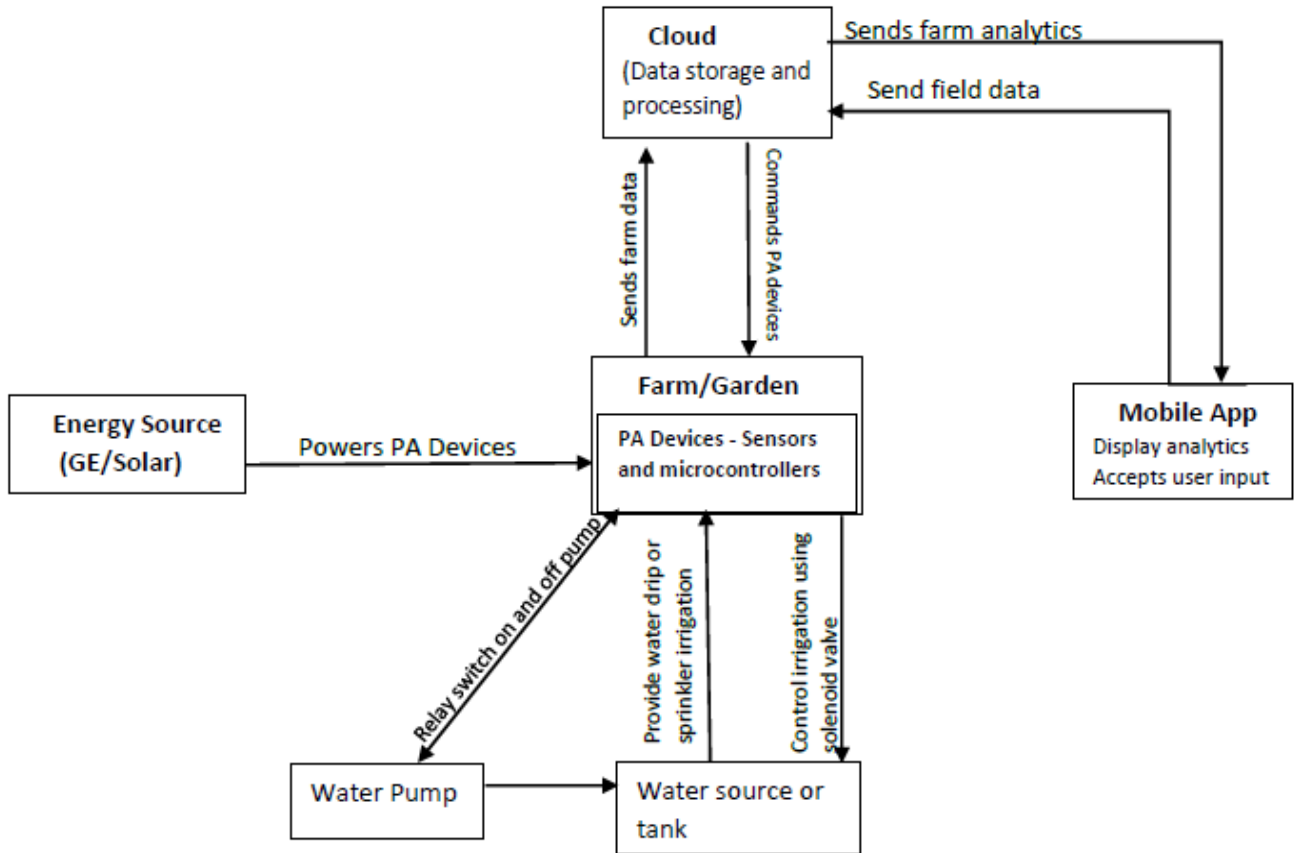
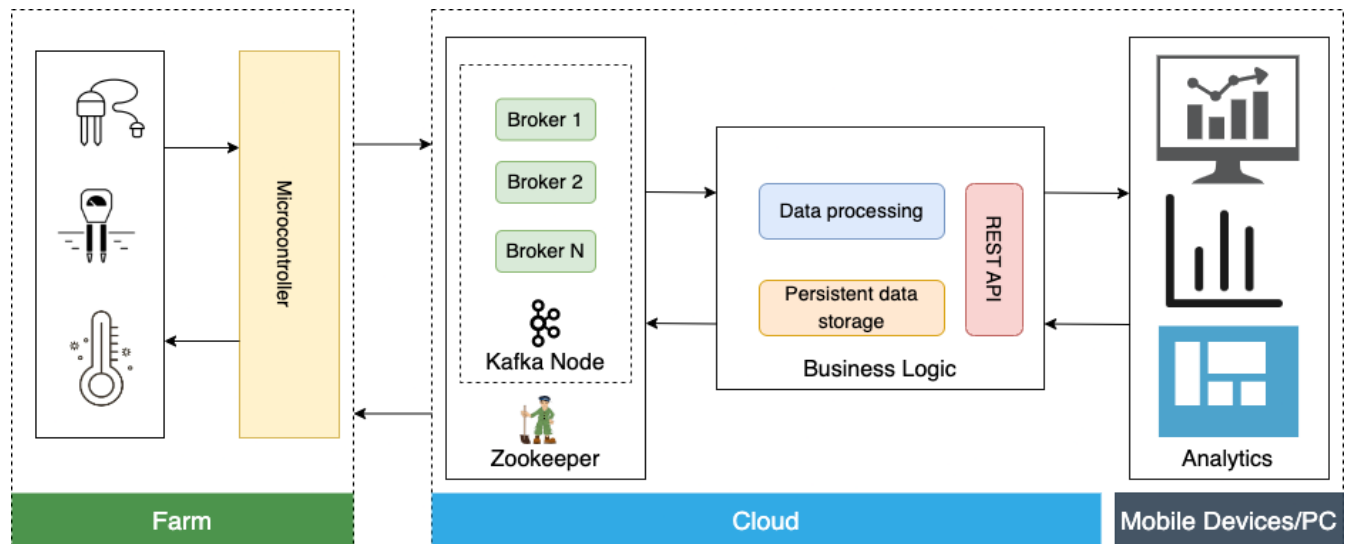


The GEPA Solution Framework

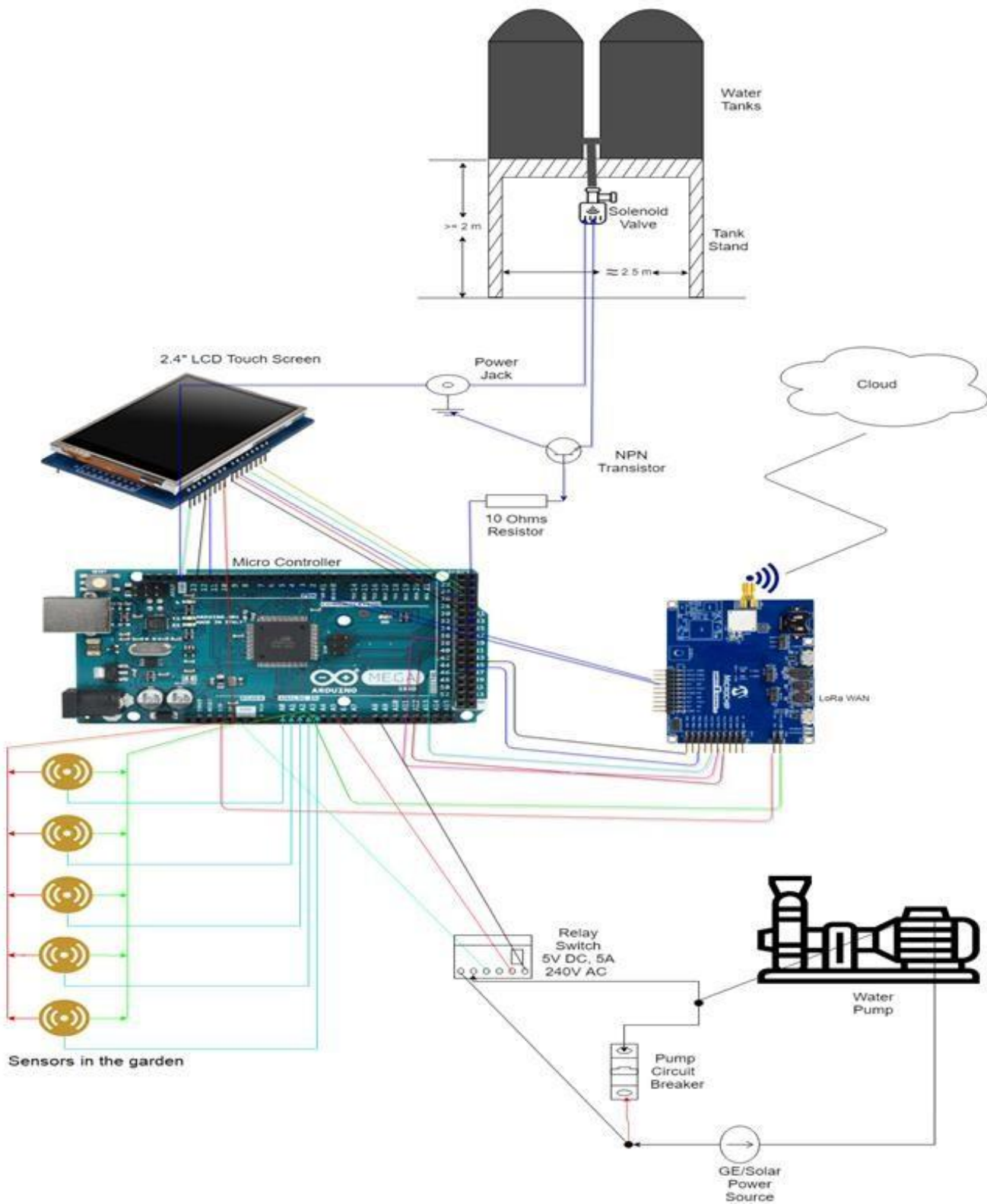
The framework gives an overarching description of the entire GEPA solution space.



Precision Agriculture (PA) Overall Architecture

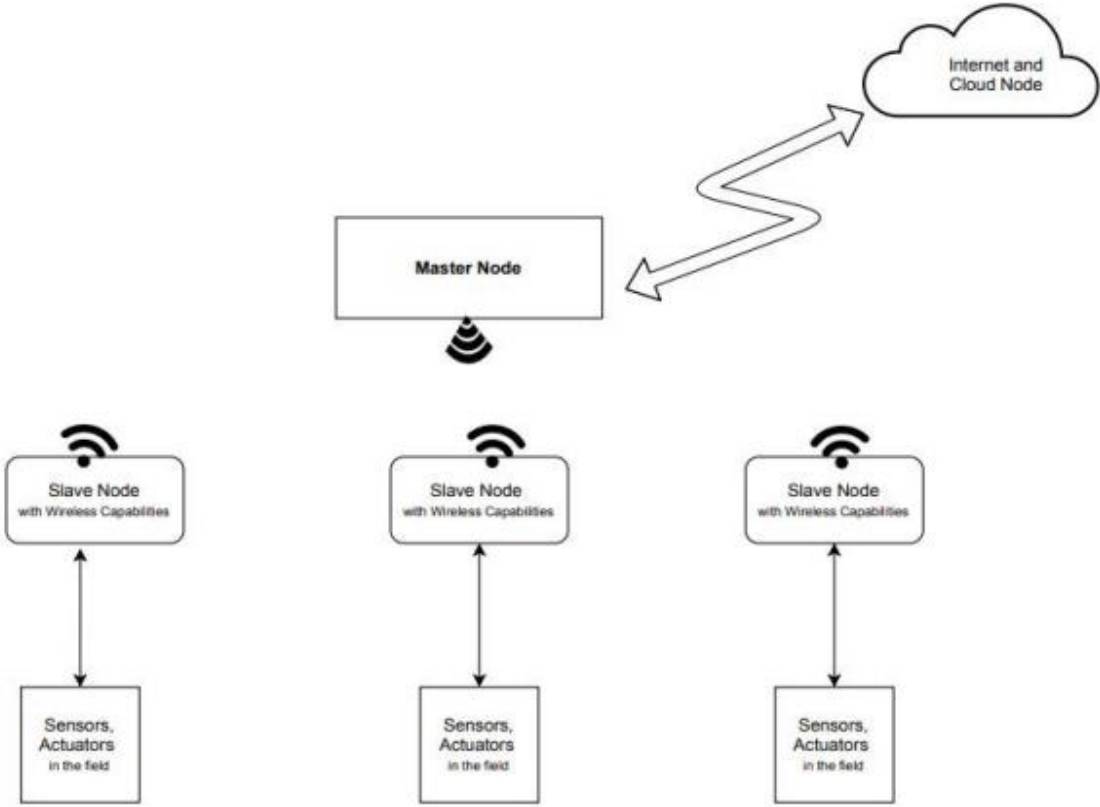


Farm Level Precision Agriculture (PA) Wired Design

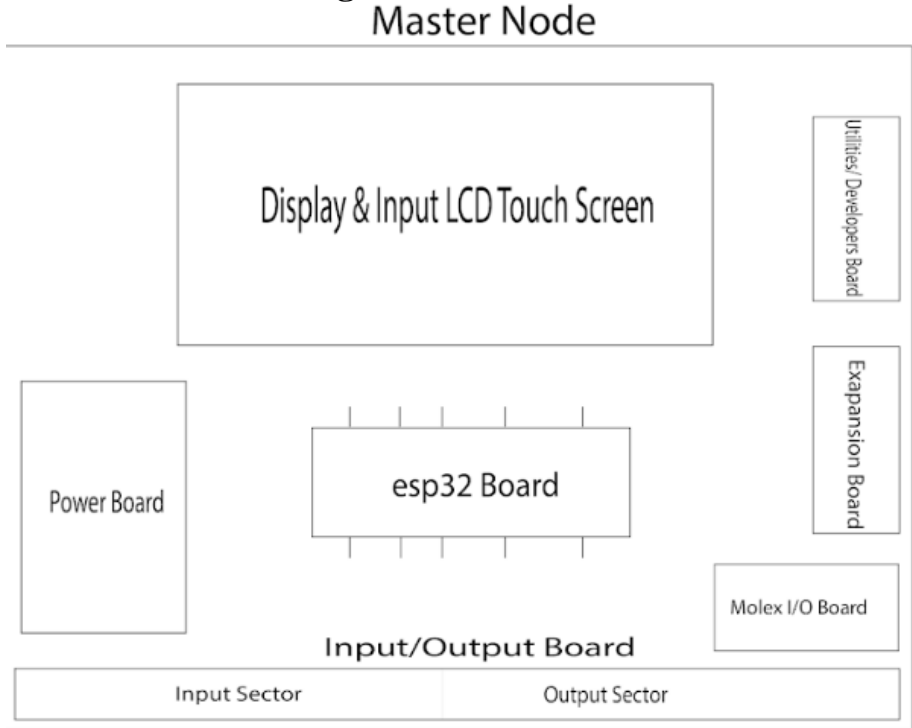


Farm Level Precision Agriculture (PA) Wireless Design

A: Master –Slave design

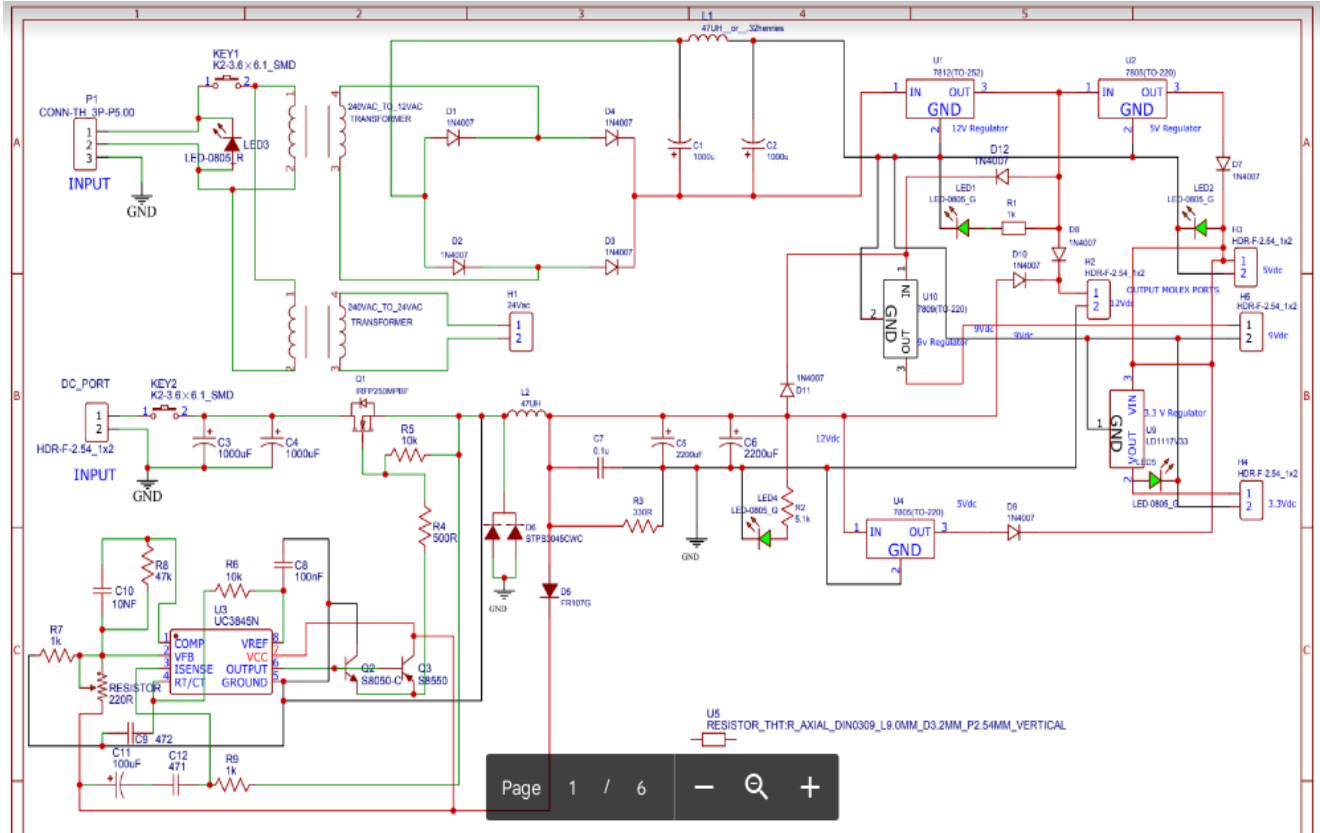


B: Master Node Design

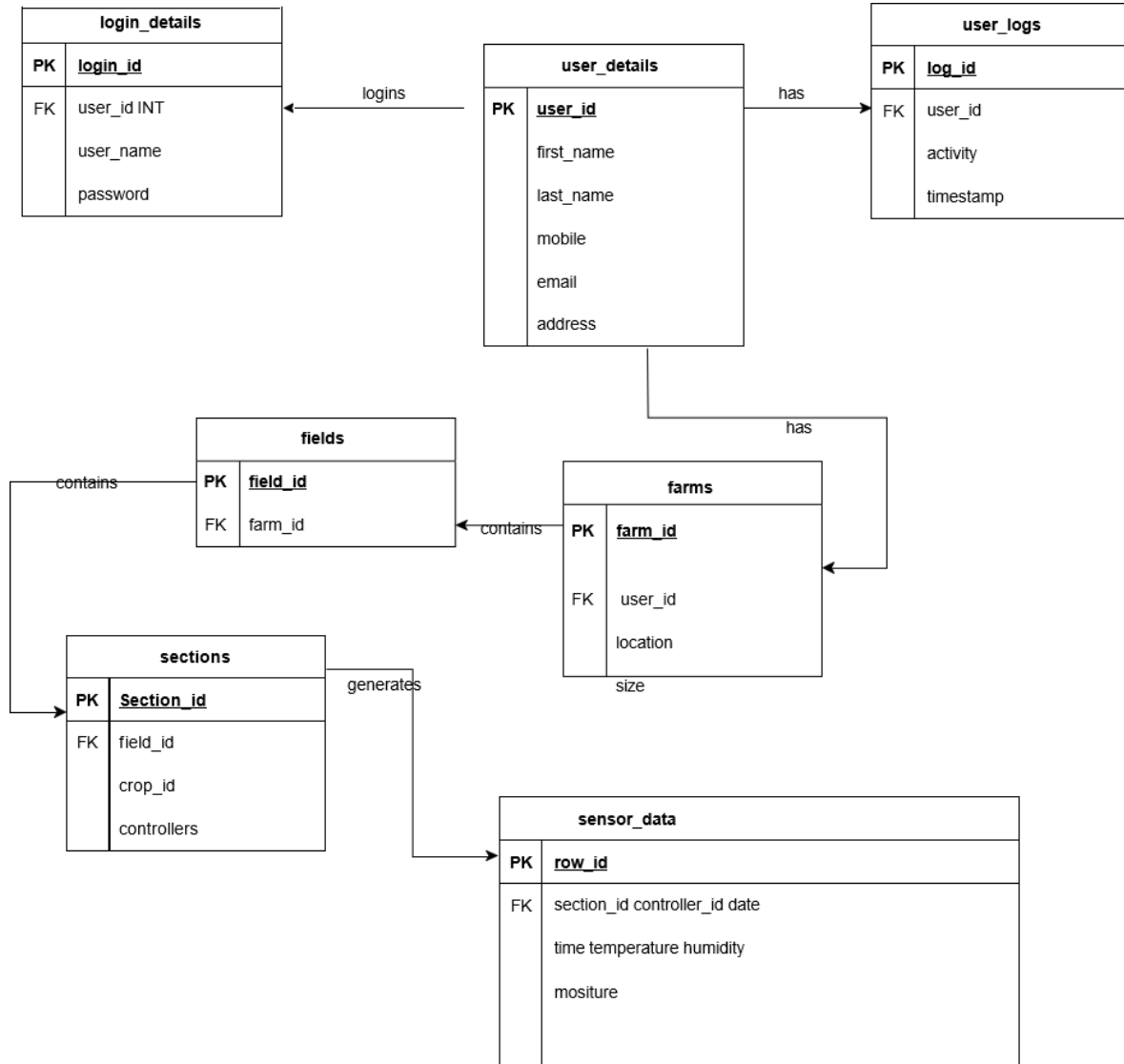


- Notes:
1. The power board contains a circuitry that accepts both AC from common main outlets and dc current of upto 70V
 2. esp32 Board is the main controller circuit board
 3. The input/output board incorporates the ability to connect various peripherals e.g sensors, actuators
 4. The expansion board contains the ability to incorporate future additional devices like LoRa boards etc
 5. The utilities board is used for debug purposes by the system developers

C: Electrical Circuit Design

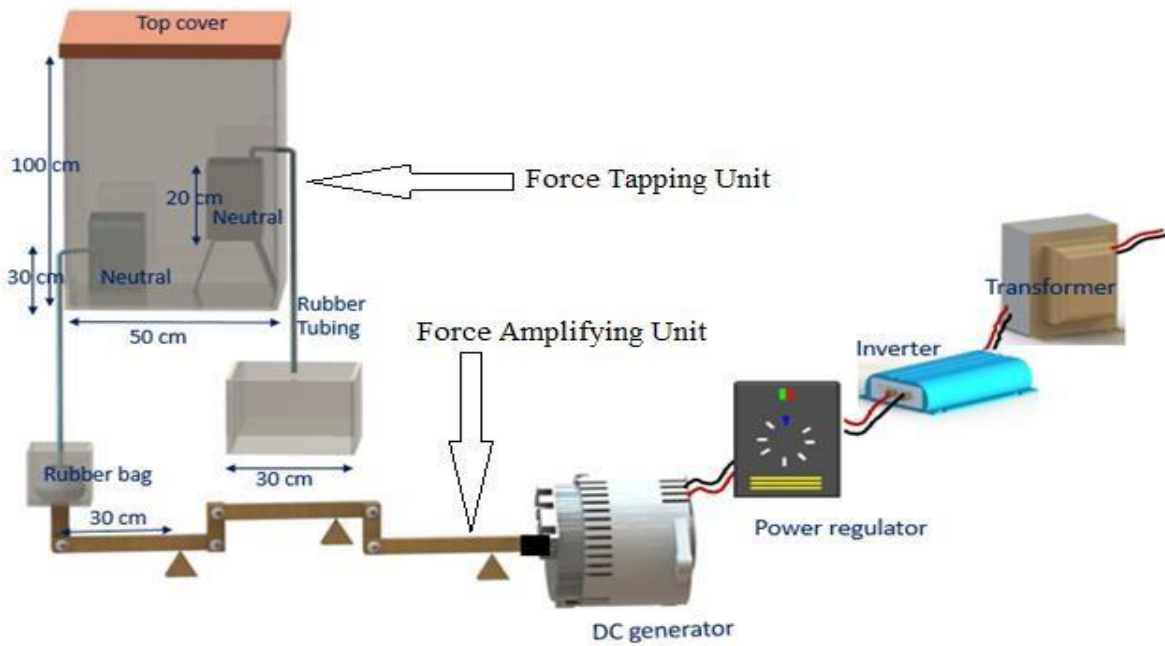


Mobile App – ER Diagram



Gravity Energy (GE) Designs

(a) Based on Pressure in Liquids



(b) Based on Pulley System

