1. Enter Ration Card number
2. Biometric authentication
3. Verification of credentials from Server
4. Enter item and its quantity
5. Validate demand and redirect if not feasible
6. Payment Confirmation
7. Biometric Authentication for payment
8. Send data to Server for confirmation and redirect if not valid to purchase
9. Pass order to Arduino (MCP-2) [w1 rice, w2 wheat, w3 kerosene ]
10. Open Servo 1
11. Weight in ‘Container Cage’ is returned
12. Servo 1 is closed when required quality is achieved
13. Read IR sensor 1
14. Servo 2 open if IR Sensor 1 id HIGH
15. Weight in ‘Container Cage’ is returned
16. Servo 2 is closed when Cage is empty
17. Open Servo 3
18. Weight in ‘Container Cage’ is returned
19. Servo 3 is closed when required quality is achieved
20. Read IR sensor 2
21. Servo 4 open if IR Sensor 2 id HIGH
22. Weight in ‘Container Cage’ is returned
23. Servo 4 is closed when Cage is empty
24. Open Solenoid 1
25. Level of liquid is observed
26. Solenoid 1 is closed when desired level is reached
27. Solenoid 2 is opened if IR sensor 3 is HIGH
28. Level is observed
29. Solenoid 2 is closed when Level 0 is reached

**Server**

**Raspberry Pi**

* 1 GB RAM
* 16 GB memory
* 900 MHz

**Weight Sensor-1**

* 40 mm x 40 mm
* Resistive

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* 40 mm x 40 mm
* Resistive

**Water level Indicator**

* LM 358
* Analog

**Infrared Sensor-3**

* IR emitter & detector
* LM 358

**Infrared Sensor-2**

* IR emitter & detector
* LM 358

**Infrared Sensor-1**

* IR emitter & detector
* LM 358

**Solenoid Valve-1**

* 12 V Butterfly Value

**Solenoid Valve-1**

* 12 V Butterfly Value

**Finger Print Scanner**

* 500ppi
* 8-bit 256 level gray scale
* 10 frames/image

**Touch Screen Display**

* 7”
* Capacitive
* TFT Touch

**Servo Motor-1**

* 6.8 kg-cm

**Servo Motor-2**

* 6.8 kg-cm

**Servo Motor-3**

* 6.8 kg-cm

**Servo Motor-4**

* 6.8 kg-cm

**Arduino Uno R3**

* At mega 328P μP