



IOT WATER LEVEL INDICATOR

Project by,
Sashwat K
Vijitha V Nair

PROBLEM STATEMENT

EXISTING SYSTEM

- A person should manually check water level.
- Turn ON/OFF water pump manually.
- Wastage of water due to overflow.
- No pump usage logs.
- No remote control over the pump.

PROPOSED SOLUTION

OBJECTIVES

- An IOT based solution for the problem.
- Automate water pump switching based on water level.
- Develop a strong and accurate system to measure water present in the tank.
- Provide detailed information on all the events related to the system.

CONTINUE..

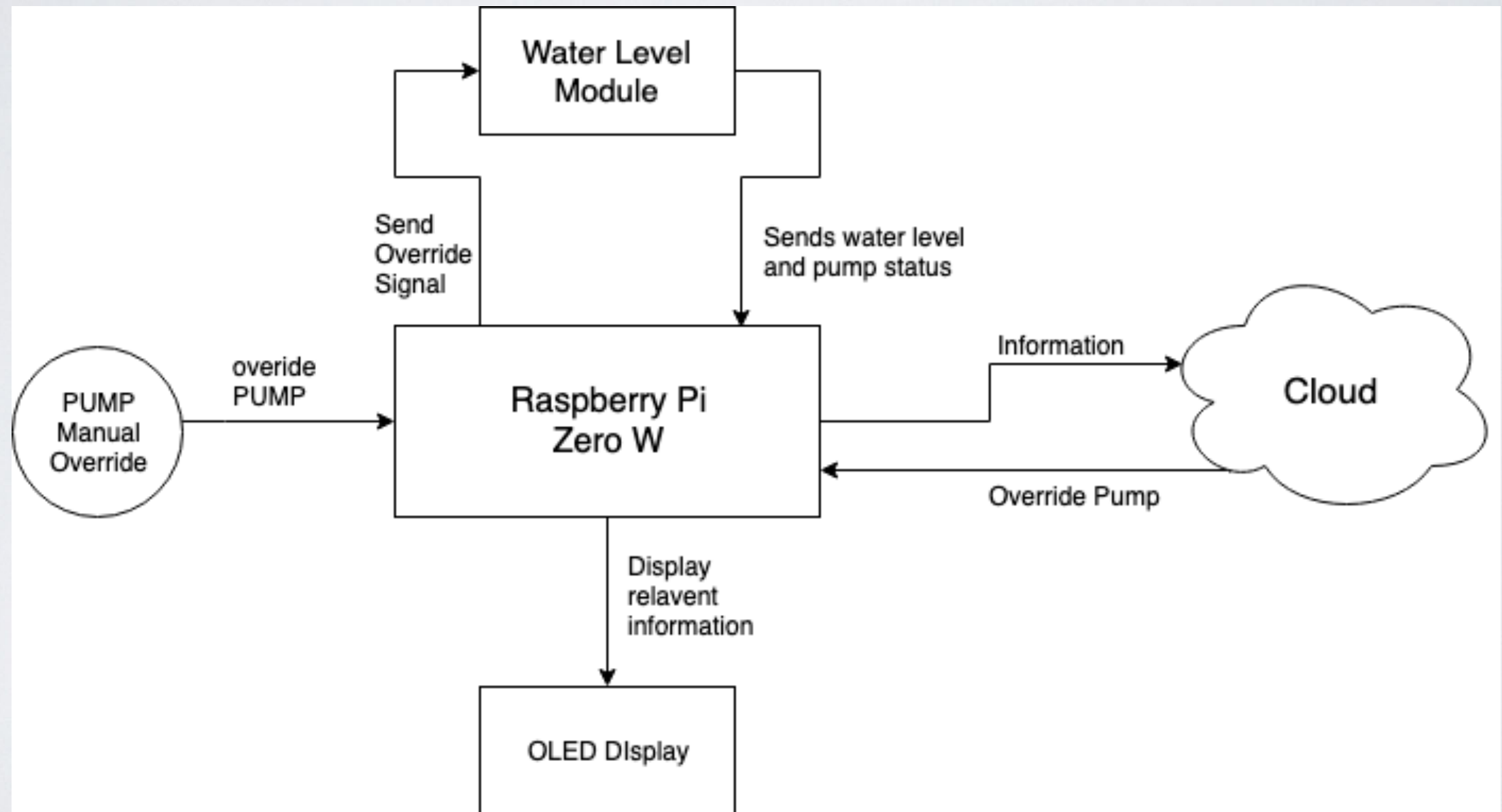
- Give remote access to the pump switch control along with all the other details via an android application or web application.

SYSTEM SPECIFICATION

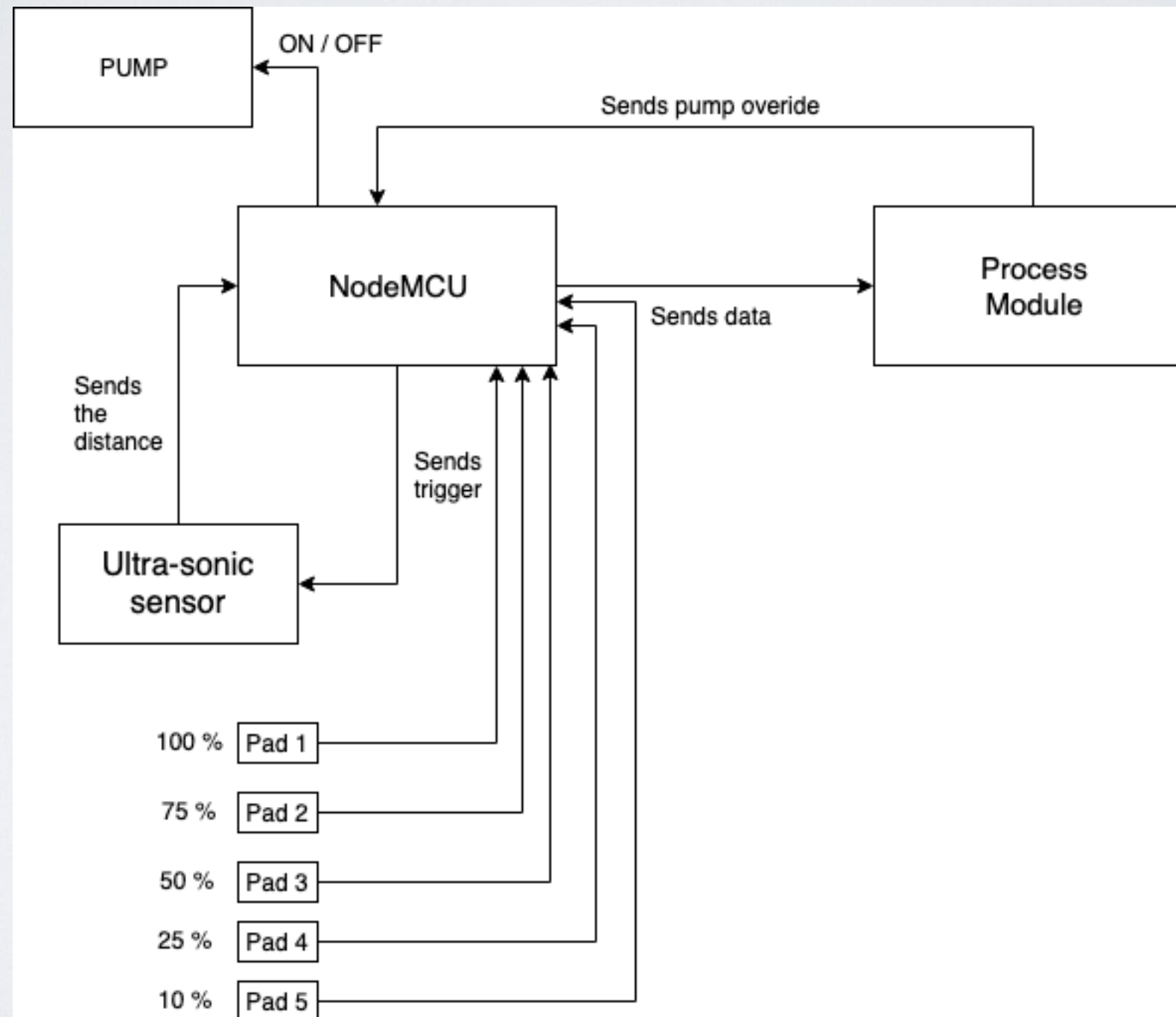
REQUIREMENTS

- Hardware
 - Control board
 - Water Tank board
- Software
 - Web Application
 - Android Application

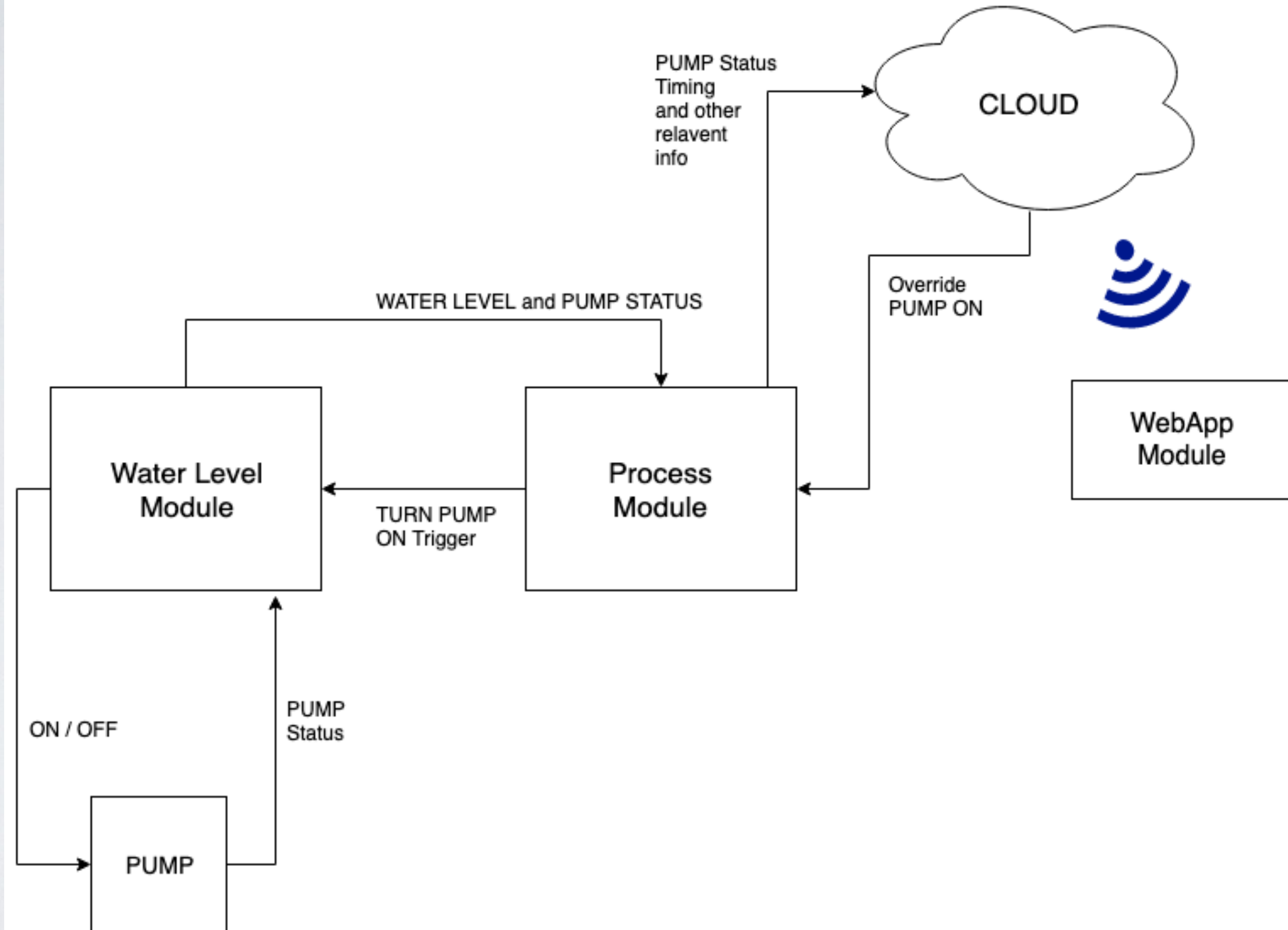
HARDWARE - CONTROL BOARD



HARDWARE - WATER TANK BOARD



MODULES INCLUDED



MODULE - I: WATER LEVEL MODULE

- Two methods to detect water level:-
 - Ultrasonic sensor
 - Conductive pads
- Sends water level to process Module.
- Controls the switching of the water pump.

MODULE -2:PROCESS MODULE

- Shows Water level and water pump status.
- Manual switch to start water pump.
- Uploads pump status and log to cloud.

MODULE 3 - WEBAPP AND ANDROID APP

- Web Application and the android application provides the system's dashboard.
- The user can turn ON/OFF motor remotely.
- The user can view motor switching logs and errors.

CONCLUSION

IOT WATER LEVEL INDICATOR

- This system is a cost effective method to implement an IOT water level indicator.
- Eliminate manual effort.
- User-friendly and informative dashboard
- Accessible through web application and android application.

THANK YOU