

# MAIN IRRIGATION CONTROLLER

WebSocket Connected

PUMP MOTOR ON

PUMP MOTOR OFF

ZONE 1 ON

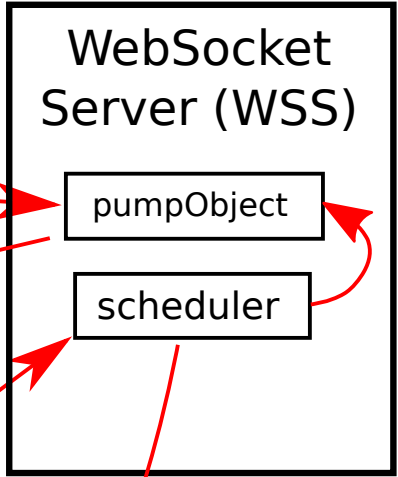
ZONE 1 OFF

ZONE 2 ON

ZONE 2 OFF

Web controller "sends" pumpcontrol object to server...

```
{'messageType':'pumpcontrol',  
'control':{'zone1': 1}}
```



The scheduler directly manipulates a Proxy in pumpObject when node-cron events fire.

## Irrigation Server Status Messages

Pump status: 0  
Zone 1 status: 1  
Zone2 status: 0

```
{"messageType": "pumpControl",  
"pumpmotor": 0,  
"zone1": 1,  
"zone2": 0}
```

The pumpObject uses the WSS to send a status update to the web controller page.

## Irrigation Scheduling

Start Irrigation Date: 06/06/2017

Stop Irrigation Time: 06:00 AM

Stop Irrigation Time: 07:00 AM

Schedule Irrigation

Web controller "sends" scheduleObject to server...

```
{'messageType':'schedule',  
'startDate':'Tuesday, June 6th 2017',  
'startTime':'6:00:00 AM',  
'stopTime':'7:00:00 AM'}
```

Messages incoming to the server are dispatched to the pumpObject or scheduler. Both objects are EventEmitters.

## Current Irrigation Schedule

Date: Tuesday, June 6th 2017  
Start: 6:00:00 AM  
Stop: 7:00:00 AM  
Current Time

```
{"messageType": "schedule",  
"scheduleDate": "Tuesday, June 6th 2017"),  
"scheduleStart": "6:00:00 AM"),  
"scheduleStop": "7:00:00 AM")}
```

The scheduler uses the WSS to send updates to the web controller schedule display.

Tuesday, June 6th 2017, 9:02:04 PM