```
┌──────────┐          ┌──────────┐          ╭─────────╮
│          │   UART   │          │   WiFi   │  MQTT   │
│ ARDUINO  │─────────▶│ ESP8266  │─────────▶│ SERVER  │
│          │          │          │          │         │
└──────────┘          └──────────┘          ╰─────────╯
                                                  ▲
                                                  │
         ┌────────────────────────┐         ╭─────────╮                ┌──────────────┐
         │                        │         │         │                │              │
         │     ORCHESTRATOR       │────────▶│ MONGODB │                │  ANALYTICS   │
         │                        │         │         │                │              │
         └────────────────────────┘         ╰─────────╯                └──────────────┘
              │                                  ▲                            │
              ▼                                  │                            ▼
         ╭─────────╮              ┌──────────────────┐
         │         │◀─────────────│                  │◀─────────────────────────
         │INFLUXDB │              │       API        │
         │         │              │                  │
         ╰─────────╯              └──────────────────┘
                                           ▲
                        ┌──────────────┐   │
                        │ PID Controller│───┘
                        │  Simulation   │
                        └──────────────┘
                               ▲
         ┌──────────┐          │          ┌──────────────┐
         │ Results  │          │          │              │
         │   KP     │◀─────────┴──────────│   MACHINE    │
         │   KI     │                     │   LEARNING   │
         │   KD     │                     │              │
         └──────────┘                     └──────────────┘
```

The data generated by Arduino is sent to ESP8266 which, in turn, sends it to the MQTT server.
All JSON (raw) are inputted on influxDB and sent to the orchestrator.
Orchestrator creates analysis and manipulates the raw JSON and stores it on MongoDB.
API can get all data, influxDB, and mongoDB.
Machine Learning topics are based on API.
PID Controller Simulation are based on PID of Machine Learning and heuristics results.