

API Specification

swagger: "2.0"

info:

description: "IOT Based Water Flow and Water Level Detector using Arduino Uno"

version: "1.0.0"

title: "Water Flow and Water Level Detector"

termsOfService: "<http://swagger.io/terms/>"

contact:

email: "sonaliabhale8@gmail.com"

tags:

- name: "Sensor"
description: "Detecting water level in the tank & send signal to Arduino"
- name: "Arduino"
description: "Find level of water and send signal to GSM module"
- name: "GSM module"
description: "transmit the data as text SMS to a host server"
- name: "user"
description: "End User Receive notification through Blynk application"

schemes:

- "https"
- "http"

paths:

/Sensor:

post:

tags:

- "Sensor"

summary: "Detect level of water inside the tank and flow of water"

description: "Detect level of water inside the tank using water level sensor and flow of water using water flow sensor"

operationId: "Waterlevel"

consumes:

- "application/json"

- "application/xml"

produces:

- "application/xml"

- "application/json"

parameters: []

responses:

"405":

description: "Invalid input"

/Sensor/findByName:

get:

tags:

- "Sensor"

summary: "Find Sensor by Name"

description: "Using Water Level Sensor we are getting Water Level and using Water Flow sensor we find Flow of water"

operationId: "findSensorByName"

produces:

- "application/xml"

- "application/json"

responses:

"200":

description: "Invalid status value"

/Arduino:

get:

tags:

- "Arduino"

summary: "Receive signal from Sensor"

description: "Receive Signal from sensor and after Analysis it Detect Level inside the tank and Flow of Water"

operationId: "getSignal"

produces:

- "application/json"

parameters: []

responses:

"200":

description: "successful operation"

/Arduino/Signal:
post:
tags:
- "Arduino"
summary: "Send Signal to GSM Module"
description: "After Detecting the Water Level as signal it will send to GSM module for further processing."
operationId: "SendSignal"
produces:
- "application/xml"
- "application/json"
parameters: []
responses:
"200":
description: "Invalid Signal"

/GSM_Module:
post:
tags:
- "GSM module"
summary: "Create user"
description: "transmit the data as text SMS to a host server"
operationId: "SendSMS"
produces:
- "application/xml"
- "application/json"
parameters: []
responses:
default:
description: "successful operation"

/GSM_Module/Signal:
get:
tags:
- "GSM module"
summary: "Receive signal"
description: "Receive signal from arduino and send signal to particular user"
operationId: "getMessage"
produces:
- "application/xml"
- "application/json"
responses:
"200":
description: "successful operation"

/User/MobileApplication:
get:
tags:
- "user"
summary: "Receive Notification"
description: "User will notified about water level and water flow through Blynk Application"
operationId: "getnotification"
produces:
- "application/xml"
- "application/json"
parameters: []
responses:
default:
description: "successful operation"

externalDocs:
description: "Find out more about Swagger"
url: "<http://swagger.io>"