Catalog

GET

“getTemperature”: to retrieve temperature (.json file format is to be designed)

“getHumidity”: to retrieve humidity (.json file format is to be designed)

“getTemeraturePred”: to retrieve predicted temperature (.json file format is to be designed)

“getHumidityPred”: to retrieve predicted humidity (.json file format is to be designed)

“getToken”: to retrieve token of telegram bot, token also for user identification

“getSensor”: to retrieve sensor settings for raspberry

“getCurrentFarm”: to retrieve current farm for telegram bot and Thing Speak adapter

“getFarmList”: to retrieve registered farm for telegram bot

“getServiceList”: to retrieve activated service for telegram bot

“getBocker”: to retrieve message broker settings for MQTT

“getActivatedFarm”: to retrieve activated farms for telegram bot and raspberry

“getChatID”: to retrieve chat ID of telegram bot

“getTime”: to retrieve time for time scheduler

“getSuggestedCulture”: to retrieve information (to be designed)

PUT

“change”: to change current farm for telegram bot and thing speak adapter

“token”: to update token of telegram bot and for user identification

“sensor”: to update sensor settings

“activatedFarm”: to update activated farm

“timer”: to updata time for time schedular

POST

“addTemperature”: to register temperature from sensors

“addHumidity”: to register humidity from sensors

“addTemperaturePredicted”: to register predicted temperature

“addHumidityPredicted”: to register predicted humidity

“registrationService”: to register activated service

“addFarm”: to register farm

“addCharID”: to register ChaiID (to be designed)

“addMechanismStatus”: to register mechanism status (to be designed)

“addToken”: to register token of telegram bot and for user registration

Delete

“deleteFarm”: to delete farm

“deleteService’’: to delete service deactivated

Telegram bot

Command list:

/temperature: to retrieve and display temperature from catalog with GET request and “getTemperaure” uri.

/humidity: to retrieve and display humidity from catalog with GET request and “getHumidiy” uri.

/predictedTemperature: to retrieve and display predicted temperature from catalog with GET request and “getTemeraturePred” uri.

/predictedHumidity: to retrieve and display predicted humidity from catalog with GET request and “getHumidiyPred” uri.

/Token: to retrieve and display current token from catalog with GET request and “getToken” uri.

/currentFarm: to retrieve and display current farm from catalog with GET request and “getCurrnetFarm” uri.

/farmList: to retrieve and display registered farm list from catalog with GET request and “getFarmList” uri.

/serviceList: to retrieve and display activated service list from catalog with GET request and “getServiceList” uri.

/activaedFarm: to retrieve and display activated farm list from catalog with GET request and “getActivatedFarm” uri.

/time: to retrieve and display time of time schdular from catalog with GET request and “getTime” uri.

/suggestedCulture: to retrieve and display suggested culture from catalog with GET request and “getSuggestedCulture” uri

/onHeating: to turn on heating mechanism with sending PUT request to raspberry\_web service and “onHeating” uri

/offHeating: to turn off heating mechanism with sending PUT request to raspberry\_web service and “offHeating” uri

/onCooling: to turn on cooling mechanism with sending PUT request to raspberry\_web service and “onCooling” uri

/offCooling: to turn off cooling mechanism with sending PUT request to raspberry\_web service and “offCooling” uri

/onIrrigation: to turn on irrigation mechanism with sending PUT request to raspberry\_web service and “onIrrigation” uri

/offIrrigation: to turn off irrigation mechanism with sending PUT request to raspberry\_web service and “offIrrigation” uri

/onFertilizer: to turn on fertilizer mechanism with sending PUT request to raspberry\_web service and “onFertilizer” uri

/ offFertilizer: to turn off fertilizer mechanism with sending PUT request to raspberry\_web service and “offFertilizer” uri