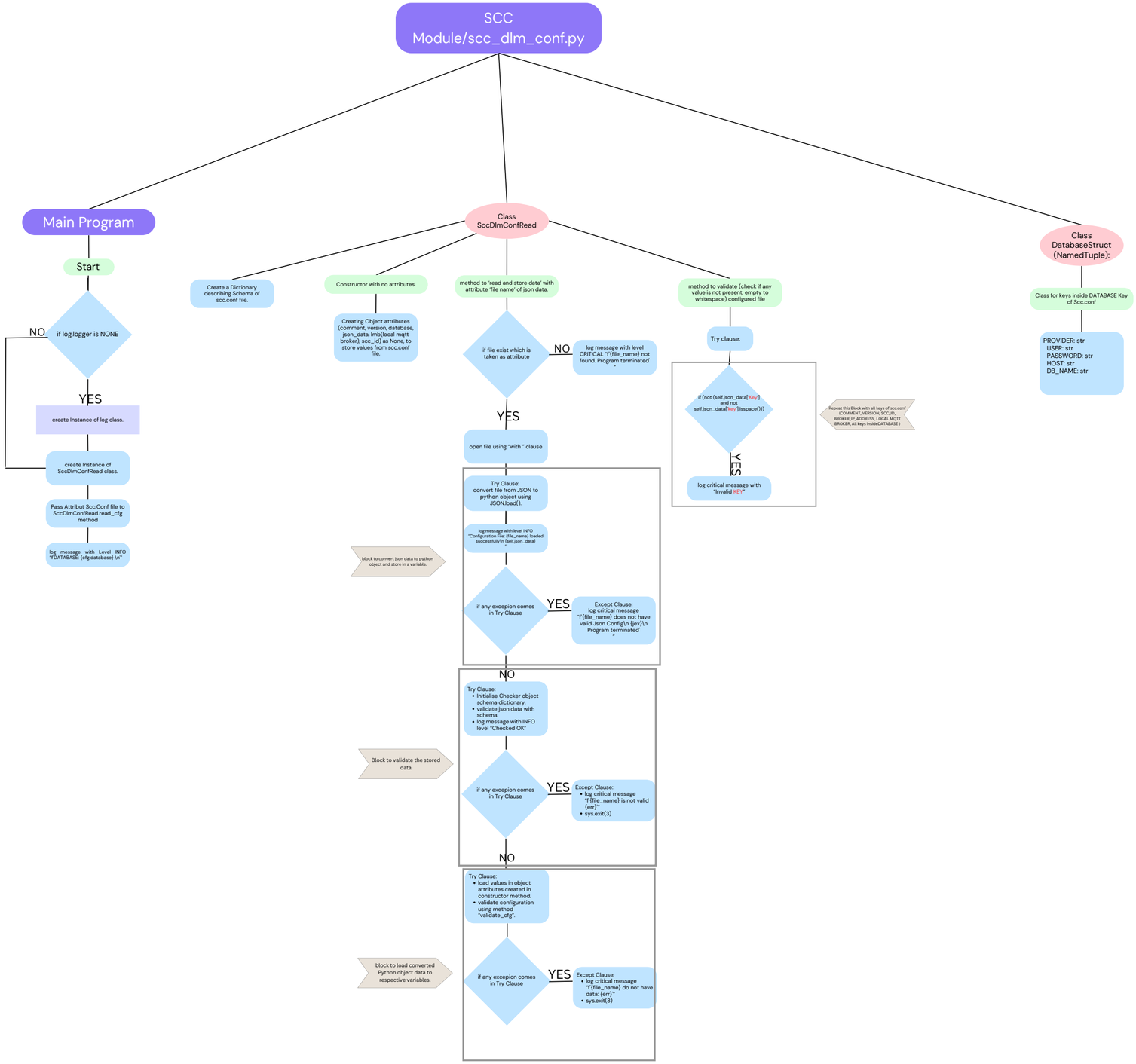
SCC Module/scc_dlm_conf.py
Main Program
Start
if log.logger is NONE
NO
YES
create Instance of log class.
create Instance of SccDlmConfRead class.
Pass Attribut Scc.Conf file to SccDlmConfRead.read_cfg method
log message with Level INFO "DATABASE: {cfg.database} \n"
Class SccDlmConfRead
Create a Dictionary describing Schema of scc.conf file.
Constructor with no attributes.
Creating Object attributes (comment, version, database, json_data, lmb(local mqtt broker), scc_id) as None, to store values from scc.conf file.
method to 'read and store data' with attribute 'file name' of jion data.
if file exist which is taken as attribute
NO
log message with level CRITICAL "f'[file_name] not found. Program terminated' "
YES
open file using "with " clause
Try Clause: convert file from JSON to python object using JSON.load().
log message with level INFO "Configuration File: {file_name} loaded successfully\n {self.json_data}
block to convert jsonn data to python object and store in a variable.
if any excepion comes in Try Clause
YES
Except Clause: log critical message "f'[file_name] does not have valid Jsonn Config\n {jex}'\n Program terminated' "
NO
Try Clause:
• Initialise Checker object schema dictionary.
• validate jsonn data with schema.
• log message with INFO level "Checked OK"
Block to validate the stored data
if any excepion comes in Try Clause
YES
Except Clause:
• log critical message "f'[file_name] is not valid {err}'".
• sys.exit(3)
NO
Try Clause:
• load values in object attributes created in constructor method.
• validate configuration using method "validate_cfg".
block to load converted Python object data to respective variables.
if any excepion comes in Try Clause
YES
Except Clause:
• log critical message "f'[file_name] do not have data: {err}'"
• sys.exit(3)
method to validate (check if any value is not present, empty to whitespace) configured file
Try clause:
if (not (self.jsonn_data['Key'] and not self.jsonn_data['key'].isspace()))
SET
log critical message with "Invalid KEY"
Repeat this Block with all keys of scc.conf (COMMENT, VERSION, SCC_ID, BROKER_IP_ADDRESS, LOCAL MQTT BROKER, All keys insideDATABASE)
Class DatabaseStruct (NamedTuple):
Class for keys inside DATABASE Key of Scc.conf
PROVIDER: str
USER: str
PASSWORD: str
HOST: str
DB_NAME: str