

Programming lists:

Class BackendDatabaseimpl

Design the backendDatabase process for store data, update, and query by front-end gateway

Class BroadcastResult

Broadcast to all the processes the message class used by any proceses

Class BroadcastTimeToSlaves

New Thread of BroadcastResult

Class requestTimeBerkleyAlgo

Use BerkleyAlgorithm to get information about time from other process

Class bulbSmart

Bulb class for bulb smart device to regist, report state to gateway and be changed state by gateway

Class doorSensorImpl

doorSensorImpl class for door to regist, report state to gateway and be queried state by gateway

Class HeaterImpl

Class HeaterImpl for door to regist, report state to gateway and be queried state by gateway

Class motionSensorImpl

Class motionSensorImpl for door to regist, report state to gateway and be queried state by gateway

Class Presencelmpl

Class Presencelmpl for door to regist, report state to gateway to differentiate between user and intruder

Class UserOperation

Class UserOperation for User to regist, SET “HOME” or “AWAY” to gateway

Interface RMIBackendDataBaseInterfaces

Common RMI remote interface for database to do election leader, timeStamp providing and token ring algorithms

Interface RMIDevicesInterfaces

Common RMI remote interface for sensors and gateway to query state and do leader election and token ring algorithm interface

Interface SmartCtrlInterfaces

Common RMI remote interface for device to be changed state and do leader election and token ring algorithm interface

Interface GatewayAllInterfaces

Common RMI remote For sensors and devices to register, and report state to gateway

Interface UserOperationInterface

Common RMI remote For user to receive text message from gateway when there is a intruder

Opencsv library:

Class CSVParser

Class CSVReader

Class CSVWriter

Designed for convenient to write and open file as database

In-line documentation is recorded in the source code in-line with comments

Also, we have java documentation which is included in the folders.