

Controller

DeviceController

- +ResponseEntity<String> getAllDevices();
- +ResponseEntity<Device> addDevice();
- +ResponseEntity<Device> getDeviceByName();

- +ResponseEntity<?> deleteDevice(); +ResponseEntity<Device> updateDevice(); +ResponseEntity<Condition> addConditions();

RoomController

+ResponseEntity<String> getAllRooms(); +ResponseEntity<Room> addRoom(); +ResponseEntity<Room> getRoomById();

+ResponseEntity<Room> updateRoom(); +ResponseEntity<?> deleteRoom(); +ResponseEntity<String> findDevices(); +ResponseEntity<Device> deleteDevice();

- +ResponseEntity<String> getConditions();
- +ResponseEntity<?> deleteCondition();

SceneController

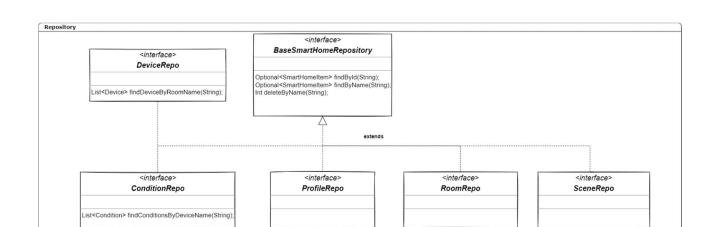
- +ResponseEntity<String> getAllScenes();
- +ResponseEntity<Scene> addScene();
- +ResponseEntity<Scene> getSceneById();
- +ResponseEntity<Scene> updateScene();
- +ResponseEntity<?> deleteScene(); +ResponseEntity<Condition> addDevice();
- +ResponseEntity<Integer> removeDevice();
- +ResponseEntity<String> findDevices();
- +ResponseEntity<String> getConditions(); +ResponseEntity<?> deleteCondition();

BaseController

- +ResponseEntity undoLastOperation();
- +ResponseEntity<String> showHistory(); +String serializeList(List);

ProfileController

- +ResponseEntity<String> getAllProfile();
- +ResponseEntity<Profile> addProfile();
- +ResponseEntity<Profile> getProfileByName()
- +ResponseEntity<Profile> updateProfile();
- +ResponseEntity<?> deleteProfile();



Service

DeviceService

- -MementoCareTaker mementoCareTaker; ConditionService conditionService;
- -DeviceRepo deviceRepo;
- -SceneRepo sceneRepo;
- -ConditionRepo conditionRepo;
- -RoomRepo roomRepo;
- +Device addDevice(JSONObject);
- +List<Device> findAllDevices();
- +Device updateDevice(...):
- +Integer deleteDevice(String);

SceneService

- -MementoCareTaker mementoCareTaker; ·ConditionService conditionService;
- SceneRepo sceneRepo;
- ConditionRepo conditionRepo;
- DeviceRepo deviceRepo;
- +Scene addScene(Scene);
- +List<Scene> findAllScene();
- +Scene updateScene(...);
- +Integer deleteScene(String);

ProfileService

 MementoCareTaker mementoCareTaker -ProfileRepo profileRepo;

- +Profile addProfile(Profile);
- +List<Profile> findAllProfile();
- +Profile updateProfile(...);
- +Integer deleteProfile(String);

RoomService

-MementoCareTaker mementoCareTaker; -RoomRepo roomRepo;

- -DeviceRepo deviceRepo:
- +Room addRoom(Room);
- List<Room> findAllRoom();
- +Room updateRoom(...);
- +Integer deleteRoom(String);

ConditionService

-MementoCareTaker mementoCareTaker ConditionRepo conditionRepo:

- Condition addCondition(Condition);
- +Condition findConditionByName(String)
- +Integer deleteCondition(String);

GenericService

-MementoCareTaker mementoCareTaker;

- +Integer undo();
- +List<String> getHistory();

Beans

ActionExecutor

- EntityManager entityManager;
- + void execute(Device, Actions);
- void executeSpeakerAction(Speaker, Actions);
- void executeTelevisionAction(Television, Actions);
- void executeLightBulbAction(Lightbulb, Actions);
- void executeConditionerAction(Conditioner, Actions); void executeAlarmClockAction(AlarmClock, Actions);

ConditionExecutor

- ConditionRepo conditionRepo;
- ActionExecutor actionExecutor;
- Random rand;
- + void run();
- Boolean controlExecute(Date, Integer, long);
- void setRoutine(Condition, long, String);

SpringFoxConfig

- + Docket api ();
- + void addResourceHandlers (ResourceHandlerRegistry);
- Apilnfo getApilnfo();

DataGenerator

- List<Profile> profiles; List<Room> rooms;
- List<Device> devices List<Scene> scenes;
- List<Condition> conditions; ProfileRepo profileRepo; RoomRepo roomRepo:

- DeviceRepo deviceRepo; SceneRepo sceneRepo; ConditionRepo conditionRepo;
- + List<Profile> generateProfiles():
- + List<Room> generateRooms();
- + List<Device> generateDevices();
- + List<Scene> generateScenes();
- + List<Condition> generateConditions();
- CommandLineRunner insertData();