

Home Automation - API Design

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Light controller:

url: /light

Description: create new light object, get light object information, update light status

GET method: get light object information based on name. If name is not provided, all light objects will be returned.

```
payload:
{
  name: string
}

response:
  Success: 200,
  Body:
    [{
      id: integer,
      name: string,
      status: boolean,
      date_created: datetime,
      date_updated: datetime
    }]
  Error: 404,
  Body:
    {
      message: "Object not found"
    }
```

POST method: create new light object.

```
payload:
{
  name: string
}

response:
  Success: 201,
  Body:
    {
      id: integer,
```

```

        name: string,
        status: boolean,
        date_created: datetime,
        date_updated: datetime
    }
    Error: 400
    Body:
    {
        message: "Object is not created"
    }

```

PUT method: update light status based on name. If name is not provided, all light objects will be updated.

```

payload:
{
    name: string,
    status: boolean
}

response:
    Success: 201,
    Body:
    [{
        id: integer,
        name: string,
        status: boolean,
        date_created: datetime,
        date_updated: datetime
    }]
    Error: 400
    Body:
    {
        message: "Object is not updated"
    }

```

Air Conditioner controller:

url: /ac

Description: create new ac point object, get ac point object information, update ac point status

GET method: get ac information.

payload: not applicable

```

response:
    Success: 200,

```

```
Body:
{
  status: boolean,
  temperature: integer,
  date_updated: datetime
}
Error: 404,
Body:
{
  message: "Can't get ac information"
}
```

POST method: initialize ac object. Only 1 time when setting up ac for home.

```
payload:
{
  status: boolean,
  temperature: integer,
}

response:
Success: 201,
Body:
{
  status: boolean,
  temperature: integer,
  date_created: datetime,
  date_updated: datetime
}
Error: 400
Body:
{
  message: "AC object is not created"
}
```

PUT method: update ac status

```
payload:
{
  status: boolean,
  temperature: integer
}

response:
Success: 201,
Body:
{
  status: boolean,
```

```
    temperature: integer,  
    date_updated: datetime  
}  
Error: 400  
Body:  
{  
  message: "AC object is not updated"  
}
```