## Requirements:

A company is launching a room service for managing rooms. The service should be a web API layer using .NET Core 3.0. You already have a prepared infrastructure and need to implement the Web API Controller RoomsController. Use the Middleware mechanism from .Net Core to protect the API service from third-party requests.

The following API calls are implemented:

1. Creating rooms - a POST request to endpoint api/rooms adds the room to the database. The HTTP response code is 200.
2. Getting all rooms - a GET request to endpoint api/rooms returns the entire list of rooms. The HTTP response code is 200.
3. Getting room by id - a GET request to endpoint api/rooms/{id} returns the details of the room for {id}. If there is no room with {id}, status code 404 is returned. On success, status code 200 is returned.
4. Getting all rooms filtered by the Floors property- a GET request to endpoint api/rooms?Floors={floor1}&Floors={floor2} returns the entire list of rooms for floor1 and floor2. The HTTP response code is 200.

Complete the Middleware of the project in the following way:

* Implement Middleware that checks if the request contains the header **passwordKey** with the value **passwordKey123456789**. If the request contains this header, allow the request. If not, return HTTP response code 403 Forbidden.

Definition of the Room model: + id - The ID of the room. [INTEGER] + category - The category of the room. [STRING] + number - The number of the room. [INTEGER] + floor - The floor of the room. [INTEGER] + isAvailable - The flag that shows if the room is available. [BOOLEAN] + addedDate - The date when the room was added in UTC (GMT + 0). [EPOCH INTEGER]

## Example requests and responses with headers

**Request 1:**

POST request to api/rooms

The request contains the header passwordKey with the value passwordKey123456789:

{  
    id: 1,  
    category: "Luxe",  
    number: 122,  
    floor: 3,  
    isAvailable: true,  
    addedDate: 1573843210  
}

The response code will be 200 because the document was created.

**Request 2:**

GET request to api/rooms/1

The request doesn’t contain the header passwordKey with the value passwordKey123456789. Therefore, the response code will be 403.

**Request 3:**

GET request to api/rooms/1

The request contains the header passwordKey with the value passwordKey123456789. The response code will be 200 with the room’s details:

{  
    id: 1,  
    category: "Luxe",  
    number: 122,  
    floor: 3,  
    isAvailable: true,  
    addedDate: 1573843210  
}