



SOFTWARE REQUIREMENT SPECIFICATION

This document outlines the requirements for the development of a RESTful web service that retrieves hotel details from “hotelsrates.json” for a specific hotel and arrival date. The web service should take in two input parameters, **HotelID** and **ArrivalDate**, and return a filtered list of hotel rates in JSON format.

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Scope

The web service will be used by various applications that need to retrieve hotel rates for a specific hotel and date. The web service will import a file (hotelRatesList.json) containing a list of hotel rates and filter the list based on the input parameters.

Functional Requirements

The web service shall:

- Accept a GET request that includes two input parameters, HotelID and ArrivalDate.
- Read the hotelRatesList.json file containing a list of hotel rates.
- Filter the list based on the input parameters.
- Return a filtered list of hotel rates in JSON format as an HTTP response.

Non-Functional Requirements

1. Performance
 - The web service shall respond to a GET request within seconds.
2. Availability
 - The web service shall be available 24/7 with an uptime of 99.9%.
3. Compatibility
 - The web service shall be compatible with a variety of web browsers and operating systems.
4. Usability
 - The web service shall provide clear and concise error messages for invalid input parameters.

Assumptions

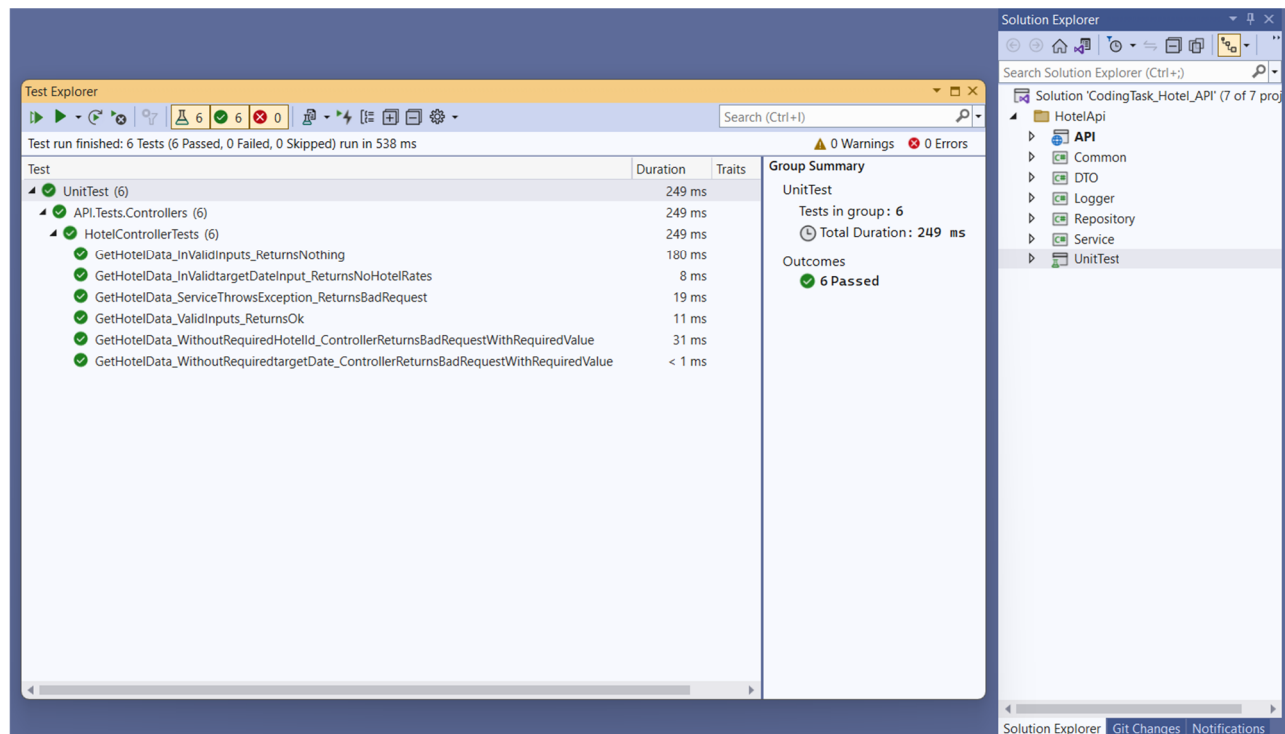
The input parameters will be validated on the client side to prevent invalid requests from being sent to the web service.

Glossary

- HotelID: a string representing the unique identifier for a specific hotel.
- ArrivalDate: a date representing the date the user is planning to check in to the hotel.
- hotelRatesList.json file: a file containing a list of hotel rates for different hotels and dates.
- Filtering algorithm: an algorithm that filters the list of hotel rates in the hotelRatesList.json file based on the input parameters HotelID and ArrivalDate.

Unit Testing

- NUnit testing used to verify the functionality of the web service.



Tools and Technologies

The following tools and technologies will be used in the development of the web service:

- Visual Studio 2022: an integrated development environment (IDE) used for developing .NET applications.
- .NET Framework 7.0: a software framework used for building and running .NET applications.

Thank you 😊



Kind Regards,
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