eHotels

Five of the most well-known hotel chains, with hotels in more than 14 different locations in North America, have decided to collaborate and develop an application.

This is a web application built using ASP.net. The purpose of this application is to customers to easily book rooms in hotels, seeing room availability in real time

Features

- Admninistrator interface for Hotel Chains management
- Employee interface for bookings and rentings management
- User interface for bookings
- Accounts and roles management
- Google Apis used to locate and display data on map
- Email sender

Technologies Used

- ASP.net
- C#
- HTML/CSS
- JavaScript
- SQL Server

Getting Started

To run this application locally:

1. Clone this repository to your local machine.
2. Open the solution file in Visual Studio.
3. Configure appsettings.json in secrets
4. Build the solution.
5. Run SQL queries in the folder SQLqueries on your database.
6. Run migrations.
7. Update database.
8. Run queries to create indexes
9. Run queries to create views
10. Run queries to create triggers
11. Run the application.

The first index is useful for queries that involve filtering or sorting based on the Capacity column of the Room table. For example, if you want to find all the rooms with a capacity of 10 people or more, the database engine can use the index to quickly locate the relevant rows, rather than scanning the entire table. Similarly, if you want to sort the results by Capacity, the index can accelerate the sorting process. The seond is useful for queries that involve filtering or sorting based on the start and end dates of the Renting table. For example, if you want to find all the rentals that overlap with a specific date range, the database engine can use the index to quickly locate the relevant rows, rather than scanning the entire table. Similarly, if you want to sort the results by start and end dates, the index can accelerate the sorting process. The third is useful for queries that involve filtering or sorting based on the start and end dates of the Booking table. For example, if you want to find all the bookings that overlap with a specific date range, the database engine can use the index to quickly locate the relevant rows, rather than scanning the entire table. Similarly, if you want to sort the results by start and end dates, the index can accelerate the sorting process.