

MILLION

TECHNICAL TEST SR DEVELOPER FULLSTACK

Project Overview:

A large real estate company requires the creation of an API to fetch information about properties stored in a database, and a web page to display this information. The goal is to create a full-stack application using .NET, MongoDB, C#, and ReactJS or Next.js. The project will involve building a set of services to manage property data and create a user interface to display it.

Technologies Required:

- Backend: .NET 8 or 9, C#
- Database: MongoDB
- Frontend: ReactJS or Next.js
- Testing: NUnit for unit testing

Task Breakdown:

1. Backend (API) Development:

- o Create a C# API using .NET 8 or 9 to retrieve property data from the MongoDB database.
- o Implement filters in the API for retrieving a list of properties based on parameters like name, address and range price.
- o Define Dtos fields such as:
 - IdOwner, Name, Address Property, Price Property and just one image.

2. Frontend (Web Page) Development:

- o Create a web page using ReactJS or Next.js to display the property data.
- o The page should include:
 - A list of properties, fetched from the API.
 - Filters for searching properties (name, address and range price).
 - Option to view more details about individual properties.
- o Ensure the frontend is responsive, providing a seamless user experience across different devices.

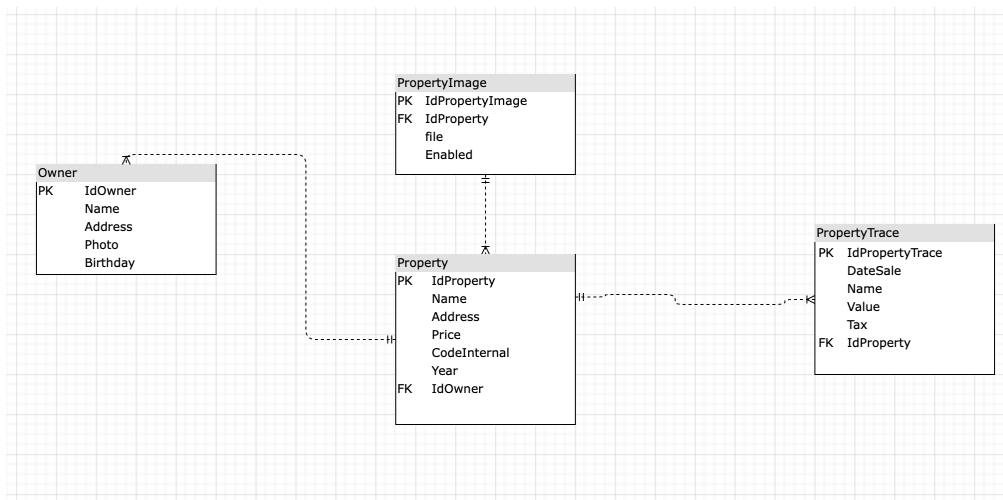
3. Evaluation Criteria:

- o Backend and Frontend Architecture: Implement a clean and efficient architecture for both the backend API and the frontend web page.
- o Code Structure: Organize code in a modular and maintainable way.
- o Documentation: Provide clear and concise documentation for both the API and frontend code.
- o Best Practices: Follow best practices in both backend and frontend development, including:
 - Clean architecture
 - Proper error handling
 - Optimized queries to database (if required)

- o Performance: Ensure both the API and frontend are optimized for performance, especially for handling large datasets or multiple filters.
- o Unit Testing: Write unit tests for both the backend API and the frontend components using NUnit or other appropriate testing frameworks.
- o Clean Code: Ensure that the code is readable, maintainable, and follows established coding conventions.

By completing this project, you'll demonstrate your ability to build a full-stack application with a clean architecture, good performance, and proper testing and documentation.

This version organizes the requirements in a more structured way and clarifies the tasks and evaluation criteria.



Send solution with project in zip file or upload from github or other similar site. Attach database backup. if is necessary specify steps for run project when download.

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