

RVezy .NET Core Software Developer Test

Introduction

This is a 3-hour test. Please send your results back to RVezy at the end of the 3 hours, by email, Github repository or other.

Few people fully complete the test, please submit what you can finish.

We prefer if the code is written in C#, using .NET Core.

Visual Studio Community: <https://visualstudio.microsoft.com/free-developer-offers/>

SQL Server Express: <https://www.microsoft.com/en-ca/sql-server/sql-server-downloads>

SQL Server Management Studio:

<https://docs.microsoft.com/en-us/sql/ssms/download-sql-server-management-studio-ssms?view=sql-server-ver15>

Level 1

Task 1

Create a .NET Core Web API application for the solution.

Task 2

Create a C# model from the CSV dataset for Listings.

Task 3

In the .NET Core Web API, parse the CSV and return the following information:

1. GET a paginated list of Listings
2. GET a listing by its listing id
3. GET a paginated list of listings, filtering by property_type

Task 4

Write tests to exercise the code you wrote in Level 1, ensuring the correct result returned for each Tasks.

Level 2

Task 1

Create Entities to store the information contained in the attached csv data sets (listings, calendar, review).

You can use any data access technology (EF Core, Dapper, etc.) and any database (SQL Server, Mysql, Mongo, etc.) you like. Our preference would be for EF Core and SQL Server.

Task 2

Create a simple CRUD API for the listings table, modifying the entities in the database.

Task 3

Import the data from the csv files to the database table.

Task 4

Write tests to exercise the code you wrote in Task 2, to ensure that values are correctly stored in the database.