Microgroove

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Challenge

Build a C# Azure Functions v4 REST API, with an in-memory SQLite DB. Use .net 6.0.

3 endpoints / routes

Route	Description
POST /api/customers	create a customer
GET /api/customers/GUID	return a customer by ID
GET /api/customers/int	return customers of a certain age

Customer Model

Property	C# Type
CustomerId	GUID
FullName	string
DateOfBirth	DateOnly

Implementation Requirements (things we want to see)

- Separate Functions (i.e. front door / entry point), business logic and data manager projects / layers
- Validation and error messages returned to callers
- Dependency Injection

Stretch Goal

If time permits, add the following to the API:

- Whenever a new customer record is created (i.e. POST endpoint), call an API to generate a profile image for the customer
- Use the following API call: https://ui-avatars.com/api/?name=**<FULL_NAME>**&format=svg
- e.g. https://ui-avatars.com/api/?name=John+Doe&format=svg
- Store the returned SVG data in a new field in the customer record.

Delivery

- Locally runnable (i.e. does not require deployment or publishing) e.g. F5-able in Visual Studio
- Solution files zipped or via Github