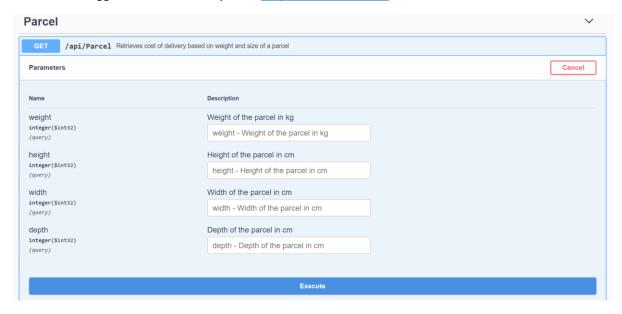
Running the Application

- 1. Download and install .NET Core 2.1 framework
- 2. Open PostalService.Api.sln in VS 2017 from the root folder
- 3. Hit F5 from within Visual Studio
- 4. A swagger site should be open at http://localhost:3000 in the browser



5. Enter the parameters and hit Execute. The Json output can be seen in the results.



Problem Statement

Calculate cost of delivery, given the dimensions and weight of a parcel based on following rules –

Priority	Rule	Condition	Cost
1	Reject	Weight > 50kg	N/A
2	Heavy	Weight > 10kg	\$15 X Weight
3	Small	Volume < 1500	\$0.05 X Volume
4	Medium	Volume < 2500	\$0.04 X Volume
5	Large		\$0.03 X Volume

Solution

Chain of Responsibility

A .NET Core API to calculate postal cost of a parcel using *Chain of Responsibility* design pattern.

Adding a New Rule

Adding or inserting a new rule is easy. Just put the new settings in appsettings.json.

S.O.L.I.D Principles

The software design is lucid, extensible and maintainable by adhering to S.O.L.I.D principles.

Unit and Integration Tests

The xUnit (with Moq) tests are written to make the software robust. Include the test cases in CI/CD pipeline.

Support or Contact

Having any trouble? Please reach out @email to sort it out.

Keep Coding:-)