Practical Test

# Task

This test is designed to test how you implement design principles. Please complete as much as you can in the set time.

In this exercise, you will be required to display understanding through implementation, design principles/ technologies list below:

* Entity Framework
  + Migrations
  + The migrations have already been completed, you just need to run the migrations to create the db and tables on your local sql instance (connect string in app.settings in the api project called MeterDataConnectionString).
* Data Migration
* Domain-driven design
* Unit Testing

# Requirement

The business has a requirement to report on metering data monthly. The data is collected in the form of PMR files that must be upload into a datastore.

You are required to build a web app that allows a user to:

1. Page - Upload and view data. This data should then be editable (fields are listed below, the rest of the data to be read-only. Id fields should not be displayed.) until finalised (separate action to mark data as approved)
   1. Import Energy (kWh)
   2. Export Energy (kWh)
2. Page – View data as a graph and data in a grid (Ui library(ies) of your choosing. We use Kendo UI, but this is not a requirement). This data must be presented as hourly values (PMR data is half-hourly)

Solution  
The solution is separated into an application layer and a presentation layer. The presentation layer is an Angular SPA.