# Fruit SA Test – OJ du Preez

## Information

### Contents

* DatabaseScript.sql
* FruitSA\_Test\_OJ.sln

### DatabaseScript.sql

**Functions:**

* Create table named “**FruitAppDB**”
* Create table named “**Products**”
* Create table named "**Categories**”
* Set up relationships between “**Products**” and “**Categories**”
* Make use of **Transactions** to create the tables
* Make use of **Try and Catch** blocks for error handling

#### FruitSA\_Test\_OJ.sln

##### Main VS Solution

Contains the following:

* Core \ Application
* Core \ Domain
* Infrastructure \ Persistence
* Presentation \ FruitSA\_Test\_OJ

#### Core \ Application

Function:

* Contains AutoMapper MappingProfile

#### Core \ Domain

Contains Data entities for:

* Products
* Categories

Function:

* Sets up the classes with their related properties to link to the corresponding DB tables.
* Sets up validation

#### Infrastructure \ Persistence

Contains the following:

* Application database context
* Categories Service
* Categories Service Interface
* Products Service
* Products Service Interface

Functions:

* Application database context
  + Create the functionality to connect to the database
  + Modify the records in the tables
  + Query the records in the tables
* Categories Service
  + Get All Categories
  + Get a Specific Category
  + Add a Category
  + Update a Category
  + Get All Assosiated Products of a Particular Category
  + Delete Category
* Products Service
  + Get All Products
  + Get a Specific Product
  + Add a Product
  + Update a Product
  + Get All Assosiated Products of a Particular Category
  + Delete a Product

#### Presentation \ FruitSA\_Test\_OJ

Contains the following:

* Pages
  + Categories
    - Category
    - CategoryDetails
    - CreateCategory
    - DeleteCategory
    - EditCategory
  + Products
    - CreateProduct
    - DeleteProduct
    - EditProduct
    - Product
    - ProductDetails
  + Error

Functions:

* Categories
  + Category
  + Lists all Categories
  + Contains Links to:
    - Add a Category
    - View a Category
    - Delete a Category
    - Edit a Category
  + CategoryDetails
    - Displays readonly:
      * Category Name
      * Category Code
      * Active
  + CreateCategory
    - * Allows for creating a Category
  + DeleteCategory
    - * Deletes a selected Category
  + EditCategory
    - * Edits a selected Category
* Products
  + CreateProduct
    - Allows for creating a Product
  + DeleteProduct
    - Deletes a selected Product
  + EditProduct
    - Edits a selected Product
  + Product
    - Lists all Products
    - Contains Links to:
      * Add a Product
      * View a Product
      * Delete a Product
      * Edit a Product
  + ProductDetails
    - Displays readonly:
      * Product Code
      * Product Name
      * Product Description
      * Category for Product
      * Product Price
      * Product Image
  + Error
    - ASP.NET Core exception handler