# Home Assignment - Viventium

## Specs

You're given test data (DATA.csv) from multiple companies. Design a data store and expose a RESTful API as described below.

The following technologies should be used in the process:
- ASP.NET WebAPI
- EntityFramework

The final result should be published to GiHub and a link should be shared.
NOTE: You can use any additional libraries as needed.

## Public API Endpoints

Define the following API Endpoints to upload and access the data:
- POST /DataStore
  - Accepts the CSV data and replaces (clears and imports) the data in the store with the provided one.
  - Validations:
    - The employeeNumber should be unique within a given company.
    - The manager of the given employee should exist in the same company.
- GET /Companies
  - Returns the list of CompanyHeader objects
- GET /Companies/{companyId}
  - Returns the Company object by provided ID
- GET /Companies/{companyId}/Employees/{employeeNumber}
  - Returns the Employee object by provided company ID and employee number

# Public DTO's

```
class CompanyHeader {
    int Id; // CompanyId
    String Code; // CompanyCode
    String Description; // CompanyDescription
    int EmployeeCount; // Number of Employees in the given company
}


class Company : CompanyHeader {
    EmployeeHeader[] Employees; // List of EmployeeHeader objects in
the given company
}


class EmployeeHeader {
    String EmployeeNumber; // EmployeeNumber
    String FullName; // "{EmployeeFirstName} {EmployeeLastName}"
}


class Employee : EmployeeHeader {
    String Email; // EmployeeEmail
    String Department; // EmployeeDepartment
    DateTime HireDate; // HireDate
    EmployeeHeader[] Managers; // List of EmployeeHeaders of the
managers, ordered ascending by seniority (i.e. the immediate manager
first)
}
```