# MealsToday v2

New version of MealsToday loading data from CSV files. Create a single project called MealsToday, folders for enumerations, data models and helper classes (folder name Helpers) and classes as defined below.

## Classes

Classes copy the structure of the CSV files but include some new properties, which are mostly calculated from properties the classes already have.

1. **User**
   1. UserId
   2. Username
   3. FirstName
   4. LastName
   5. Roles
   6. Fullname a ReverseFullname
2. **Allergen**
   1. AllergenId
   2. Name
3. **Meal**
   1. MealId
   2. Name
   3. Description
   4. Calories
   5. Allergens (list of Allergens)

## Helpers

Helper classes will help us to parse data from CSV files. The principal of parsing is quite simple. First we check if the file exists (throw FileNotFoundException if file is not found) then we read all data from the CSV files via File.ReadAllLines(filePath), which returns an array of strings.

When the data are loaded in the array we go through it and parse each array line and return a new object of type User, Meal or Allergen.

### Helper classes

1. Static class CSVLoader
   1. Private static methods
      1. parseUserRow
      2. parseMealRow
      3. parseAllergenRow
   2. Public static methods
      1. LoadUserData
      2. LoadMealData
      3. LoadAllergenData

Load methods load the data from file (file path is the and calls appropriate parsing method for each row in the loop.

## Technical hints

1. Read all lines from file with System.IO.File.ReadAllLines(string filepath)
2. You can split string by a specific character by using string’s static method Split(char splitBy) that returns array of string. Values from this array you should assign to object properties