Food Tracking Website

Overview: In this group project, your team of 2-4 students will create a website that allows users to track their food intake through the day. Your project will utilize elements of the GUI Development, Web Service, and Testing classes.

In General

1. Create it as an ASP.NET MVC project.
2. All pages must look clean and neat, with usable interfaces (think of Tidwell and Krug's advice)
3. All pages should share a clean, consistent nav menu that has links to all important pages.
4. All forms must use sensible HTML elements, and the Bootstrap form classes for a nice structure with elements aligned to each other. Include the HTML placeholder attributes where sensible.

Specific Requirements

1. Let users register, thereby creating an account profile. Ask users for the following data, and store it in the DB:
    a. Starting weight
    b. Current weight
    c. Desired weight
    d. Height
    e. Gender
    f. Activity level
    g. Birthday
    h. Age (calculate this)
    i. Number of calories to eat per day to lose weight (example: https://www.calculator.net/calorie-calculator.html)
    j. Name, email, other contact info you care about
2. Give users a way to View and Edit their own profile.
3. The home page should display
    a. Easy way for user to record food eaten
    b. Clear indication of calories left for the day
    c. Weight lost to this point
4. Users must have a way to enter weight they've lost. This data should be remembered persistently from visit to visit.
5. All the information should get saved to a database.
6. You must have a unique look and feel for your website. Please do not submit a boring, vanilla black and white website. At the minimum, please use one of the Bootswatch color themes (see lessons in Module 5).

Choose your Challenge

Your team **must select one** of the following Challenge choices. Doing more will count as bonus. Be sure to demonstrate and point out in the submission video if you did bonus work.

1. Display the "calories left" and "weight lost" *visually*, not just as a number. Look for suggestions in Tidwell.
2. Let users track all food and amount they eat each day; let them go through and edit records of prior days.
    a. They should be able to add food anytime throughout the day.
3. Have food information brought in from https://fdc.nal.usda.gov/api-guide.html (scroll down to "API Endpoints"). You will need a free API key.
    a. Use this gov site to help you calculate the calories eaten.
    b. This gov site returns a ridiculous amount of information. Learn to limit the page returns. Use the Energy nutrient for calories. Do not worry about the complete accuracy of the data.

Submission

1. Submit a **responsibility list** of which team member did what.
2. **Submit** a **narrated video** showing the finished project working and its code. (Or show me if on-ground).
3. Prove the information gets saved to a **database**.
4. Submit your **testing code**.
5. Submit a written description of how you used **Tidwell** and **Krug's** suggestions.
6. Optional: publish to Azure and submit the **URL**.