Homework Week 2

Nutrition team: Maya-Vani, Amran, Deeqa, Mary-Dawn, Suad

Q1) **What are you building?**

We are building a handy nutrition-based recipe app! Users of our app will be able to insert their dietary preferences, nutritional restrictions (gluten, vegan, vegetarian, pork-free) etc as well as ingredients they would like to use for cooking and our app would automatically find and return a recipe to them that takes their ingredient and restrictions into account. Users have a convenient way of finding recipes, reducing waste, and trying new food, all while keeping to their nutritional needs.

Q2) **What does it do or what kind of problem does it solve?**

Cooking meals are an essential task that people must do to survive unless you’re privileged enough to have a chef. Most people have busy schedules with little to no time to prepare their meals, hence the success of UberEATS and Deliveroo.

The hardest step in anything is the first, this program aims to solve that; what to cook? It conveniently considers, the primary ingredients that you have, your dietary requirements and preferences, which will inevitably reduce the time spent scouring for recipes that suit your needs. It solves the problem of planning meals, which is ideal for people with a busy schedule.

This program aims to help people save money on takeaways and food delivery services by providing them with suitable options they can cook. By using ingredients already in the fridge and reducing the frequency of takeaways it is better for the environment, as less energy is used for transport which in turn lowers CO2 emissions and helps to improve overall sustainability.

It is also useful for suggesting recipes to people who cook often and need new ideas, in addition to special occasions; when at a loss for what to cook or if their guests have special dietary requirements. Essentially this program simplifies the process of cooking meals by saving the users time and consequently money.

Q3) **What are the key features of the system?**

We are building a recipe app and some of the key features include:  
1. Filter powered search which allows you to put in certain ingredients that you are interested in or is available to you to cook.  
2. Button to generate recipes which will generate recipes containing your chosen ingredients or diet requirement.  
3. Cards that contain nutritional values and calories. This allows the user to choose a recipe that aligns with their health and dietary requirements.  
4. 20 tailored recipes will be returned. Once a user applies all their requirements and choices, the app will return 20 matching results that the user can chose from, and which will be stored in the database to be later referred to.  
5. Dietary requirements.

Dietary requirements. This app will allow users to input multiple ingredients of their choice, dietary requirements, health requirements and allergies that they may have such as whether they are vegan, vegetarian, pescatarian or lactose intolerant.

Q5) **Describe the team approach to project work: how are you planning to distribute the workload, how are you managing your code, how are you planning to test your system?**

Initially, we set a meeting on zoom to introduce ourselves and to discuss potential ideas. We then spent the next few days cementing our project idea and ensuring everyone was happy with it. Once we decided on an idea, we then homed in on the project idea and focused on ways to tackle different aspects of the project. Organisation of the team and project is crucial to reaching our goal.

A notion page was created and shared with all the team members. This way, meeting notes and addition documentations can be kept in one place for easy access.

We created a slack workspace where we communicate and send useful links, zoom meeting links etc. At times, communicating on slack can cause misunderstanding therefore our team has been having regular zoom meetings at 6pm almost every day. This allows us to clarify any misunderstandings and come to conclusions faster.

In the beginning, we agreed on using scrum framework for organisation. Our daily meetings are our scrum daily meetings. We also had a scrum planning meeting where we listed our backlog, requirements, and to-do on trello. This platform was shared between all team members and is regularly updated as we go along.

We decided to assign a different scrum master each week to give everyone a fair chance at managing. For the front-end of the project, we are currently using Figma to create the wireframe and design of the webpage. To manage our code, we created a GitHub repository, shared it will the team members and our assigned instructor. Each person will create their own branch and work on. We decided to pair programme for this project to increase practicality.

Below is how we distributed the work:

**Amran:** API, Testing  
**Deeqa:** Front-end, Testing  
**Mary-Dawn:** SQL, Database  
**Maya-Vani:** API, Testing  
**Suad:** Front-end, Design

We are planning on testing our system using unittests and mock tests. We will test small sections of our code to see if it is working in the ways we anticipated. We will also do user testing where we pretend to be a user and see if the website is performing how we expect it to behave from a user’s perspective.

Q4) **Provide a sample architecture diagram:**

**Timeline

Description automatically generated**