**HOMEWORK WEEK2**

This week’s homework will be purely Project based. You need to work as a group and the homework will be submitted by one of the members of your group. List the other members of your group in the document, so that your instructor can mark every student.

Name ideas: MealCheck **✓**

1. Your group needs to decide what kind of project you are going to work on and lock in your decision.

* A command line app
* Recipe searcher which looks at calorie intake guidelines
* Filters by cuisine type (OOP use: cuisine would be a Class, then subclasses could be cuisines from different parts of the world)
* Filters by allergies
* Records calories

User inputs (health and lifestyle):

* Input: activeness (on a scale)
* Input: age
* Input: gender
* Input: drinking
* To calculate recommended daily calorie intake

Things that’ll be stored in SQLdb:

* Make a database to use for comparison purposes, containing what someone has eaten for 7 days. And make sure they don’t eat the same thing again?
* They can use it to track what they’ve eaten on certain days
* We may even use it to ensure that the person eats the same thing on every Monday for example.
* Storing the health inputs instead?

1. You need to submit a free style paper that describes your project on a high level. Please cover the following questions:
2. **What are you building?**

* An app that allows a user to do a few things to do with food. These include, looking for recipes based on an ingredient, dietary requirements, and cuisine types. They will also be able to log information about themselves (to calculate their BMI), their lifestyles and their calorific intake, to check that they are adhering to the recommendations from the NHS.

1. **What does it do or what kind of problem does it solve?**

* The aim of this app is to monitor the current NHS guidelines regarding calorie intake. By storing the data and calculating averages (of daily caloric intake) from men and women, for example, we can advise the NHS on whether the current guidelines are being followed.
* It also helps people pick their meals and gives suggestions whilst taking their allergies and cuisine preferences into account.
* Helping people with diabetes.

1. **What are key features of your system?**

Functions:

* Calorie counter
* Meal suggester
* BMI calculator

1. **Provide a sample architecture diagram of your system** (you can use PPT with squares and circles to demonstrate a simplified flow of your system):

Diagram

Description automatically generated

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

For now:

* **Ola** – in charge of testing
* **Charu** – classes and OOP concepts, SQL
* **Whitney** – APIs, how to format it and build the correct ones, process flow chart
* **Najma** – making a database on mySQL
* **Bora** – our use of OOP concepts
* We will also do pair-programming - shared
* We will all look for ways to implement what we’ve learned in class - shared
* Documentation for the project - shared