**EECS3311   
Echo fitness app**Software Design Document

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| --- | --- | --- | --- |
| **Version** | **Date** | **Author(s)** | **Summary of Changes** |
| 1.0 | 13/10/23 | Khoa Tran | Document created, general structure outlined, project title pending. |
| 1.1 | 13/10/23 | Adam Mokdad | Added charts for modules and interfaces. |
| 1.2 | 14/10/23 | Alex Valdez | Added test cases. |
| 1.3 | 19/10/23 | Khoa Tran | Added “Major Design Decisions”, some sequence diagrams, and meeting logs. |
| 1.4 | 19/10/23 | Alex Valdez | Added some sequence diagrams and UML diagrams. |
| 1.5 | 20/10/23 | Khoa Tran | Added GANTT diagram, link to GitHub, and use case 1 UML Class diagram. |
| 1.6 | 20/10/23 | Adam Mokdad | Added class diagram for use case 2 and 3. |
| 1.7 | 20/10/10 | Omer Omer | Added sequence diagram of use case 2 and 3, class diagram of the calculator class, added component diagram and class description of use case 3 |
| 1.8 | 07/11/2023 | Alex Valdez | Updated test cases |
| 1.9 | 22/11/2023 | Khoa Tran |  |

# Introduction:

**Purpose:** The goal of the project is to create an application that tracks and calculates a user’s BMR level, BMI level, calorie intake, and nutrition goals.

**Overview:** The software must be able to handle the following use cases.

1. *As a user, I want to be able to create a profile in the application.*
2. *As a user, I want to be able to log my diet data in the application.*
3. *As a user, I want to be able to log my exercise in the application.*
4. *As a user, I want to be able to visualize my calory intake and my exercise over time.*
5. *As a user, I want to be able to visualize my daily nutrient intake.*
6. *As a user, I want to see how much weight in fat I will lose under my current diet and exercise pattern.*
7. *As a user, I want to know how well my diet aligns with the Canada Food Guide.*

**Repository:** <https://github.com/adam5192/EECS3311-Echo>

**References:**

* BMR Calculator Formula: <https://www.calculator.io/bmr-calculator/#the-formula-of-katch-mcardle-3>
* BMI Calculator Formula: <https://www.calculator.io/bmi-calculator/>
* Total Daily Energy Expenditure: <https://www.verywellfit.com/what-is-energy-expenditure-3496103#toc-tdee-calculator>

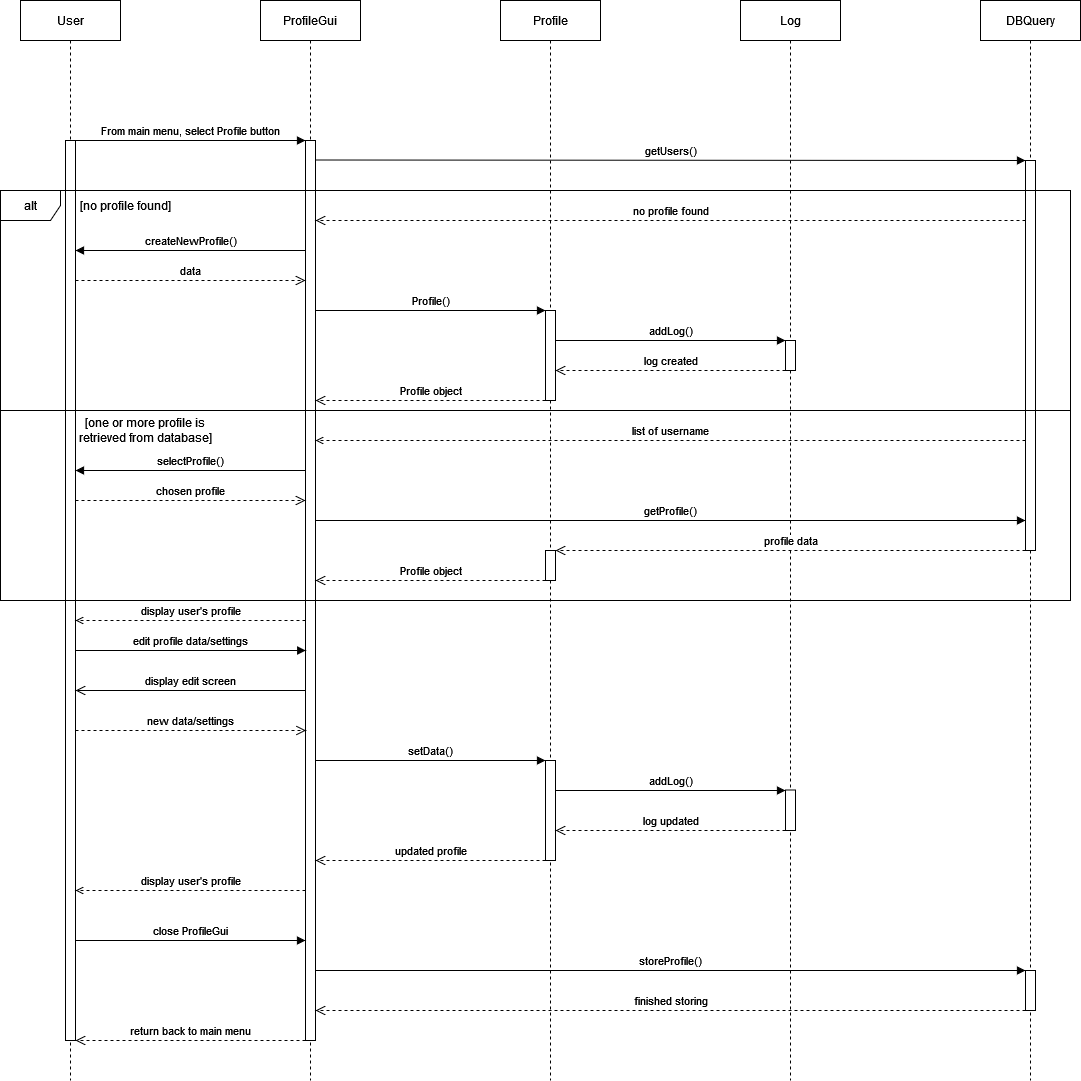
# Major Design Decisions:

The development will be done in Java, as per the recommended programming language of the course. The database management system picked is MySQL and the 2007 Canada Food Guide was chosen as the main database as it is more detailed compared to the alternative option.  
  
The architecture style of the application is MVC where the application is split into a Model (represented by the Log module), a Controller (further split into more specialized modules to handle the different use cases), and a View (which handles the communication between the user and the Controller).

The modules are mostly unaffected by the implementations of the functions of other modules by limiting their interactions through predefined methods. Furthermore, the modules are only responsible for their specialized purposes, such as Profile is only responsible for storing and managing the data related directly to the user and information unrelated (or requires further manipulation to be related) is defined and store outside of its view. In addition, the View’s requests will be pass through a façade class in order to reduce coupling with the modules.

# Sequence Diagrams:

Use case 1:



Use case 2:

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Use case 3:

A diagram of a diagram

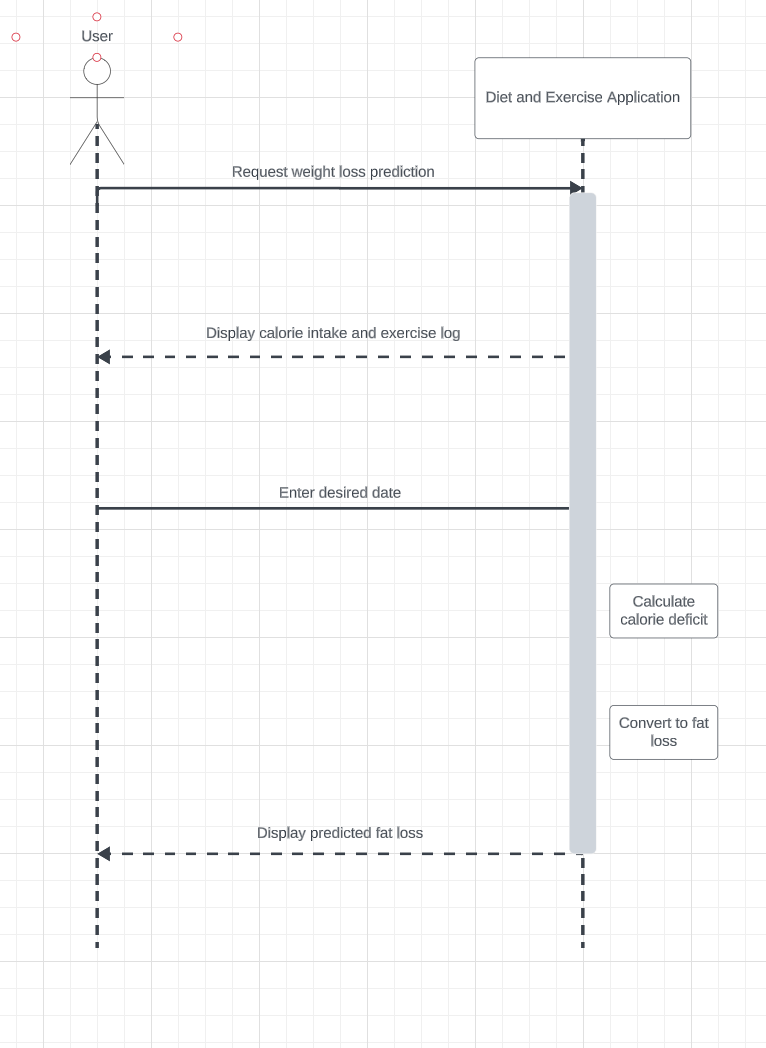
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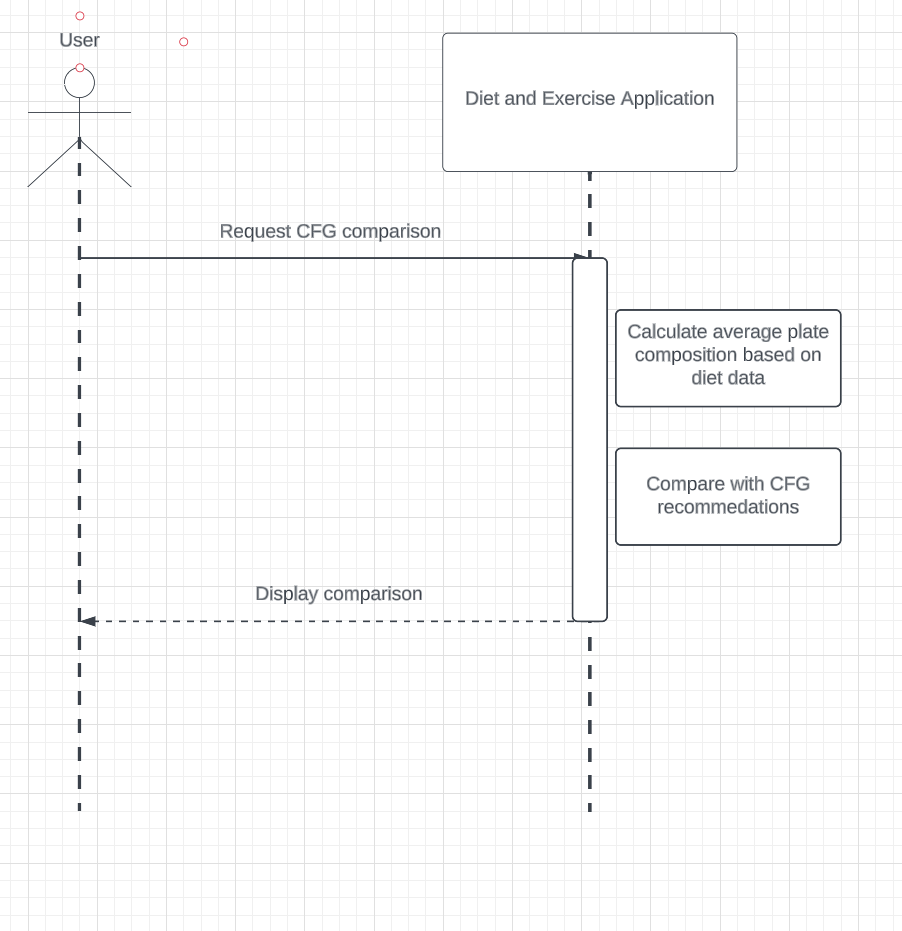
Use case 4:  
A diagram of a calorie intake and exercise

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Use case 5:  
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Use case 6:  


Use case 7:  


# Architecture:

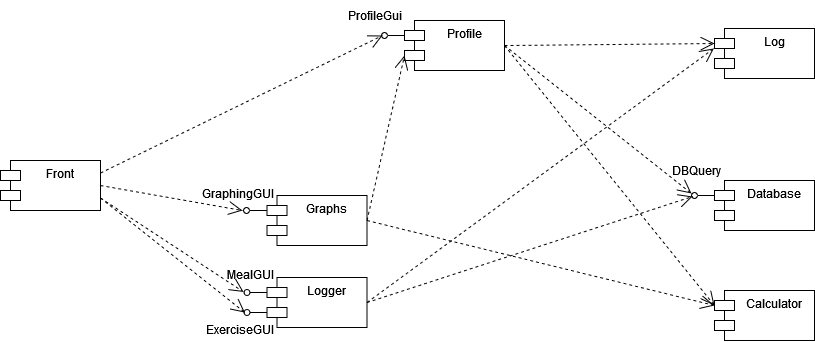
**Modules**

|  |  |  |  |
| --- | --- | --- | --- |
| **Module Name** | **Description** | **Exposed Interface Names** | **Interface Description** |
| M1: User Profile | Manage user profile (creation, editing, deletion). Manage settings. | M1:I1, M1:I2 | M1:I1: Interface to handle basic user data.  M1:I2: Interface to manage user settings and preferences |
| M2: Dietary and Exercise Logging | Allows users to log dietary and exercise data, and calculate nutritional value and calories burned. | M2:I3, M2:I4 | M2: I3: Interface for data input and nutrition calculation  M2:I4: Interface for logging exercise and calculate calories burned |
| M3: Graphing Visualization | Generates visual data representations for caloric and nutritional data. | M3:I5 | M3: I5: Interface to produce various visualizations |
| M4: Weight Prediction | Uses caloric data to predict potential weight loss | M4:I6 | M4:I6: Predicts weight loss based on caloric data |
| M5: CFG Alignment | Compares dietary data with CFG recommendations | M5:I7 | M5:I7: Evaluates and visualizes alignment with CFG |
| M6: Database | Handles storage, retrieval and management of all user data | M6:I8 | M6:I8: Handles data storage and retrieval |
| M7: UI | Renders UI, handles user inputs, and manages frontend interaction. | M7:I9 | M7:I9: Interfaces for displaying UI and managing user interactions. |

**Interfaces**

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| --- | --- | --- |
| Interface Name | Operations | Operation Desc |
| M1:I1 | <void> I1:Op1() used by M7  <void> I1:Op2(int x) used by M7 | Op1(): Handle creation and selection of user profiles.  Op2(int x): Modify details in a user’s profile. |
| M1:I2 | <void> I2:Op3() used by M7 | Op3(): Adjust user settings |
| M2:I3 | <Nutrition Data> I3:Op4(String y) used by M7, M4, M5 | Op4(String y): Input dietary data and calculate nutritional values. |
| M2:I4 | <int> I4:Op5(int z) used by M7, M4 | Op5(int z): Log exercise data and calculate calories burned. |
| M3:I5 | <Chart> I5:Op6(Date a, Date b) used by M7 | Op6(Date a, Date b): Generate a visualization for a specified date range. |
| M4:I6 | <float> I6:Op7() used by M7 | Op7(): Predict weight loss using current data. |
| M5:I7 | <CFG Comparison> I7:Op8() used by M7 | Op8(): Compare and visualize comparison with CFG recommendations. |
| M6:I8 | <User Data> I7:Op8() used by M7, M2, M3, M4, M5 | Op9(): Retrieve/store data in the database. |
| M7:I9 | <void> I9:Op10() used by M1, M2, M3, M4, M5, M6 | Op10(): Render specific UI elements based on user interaction. |

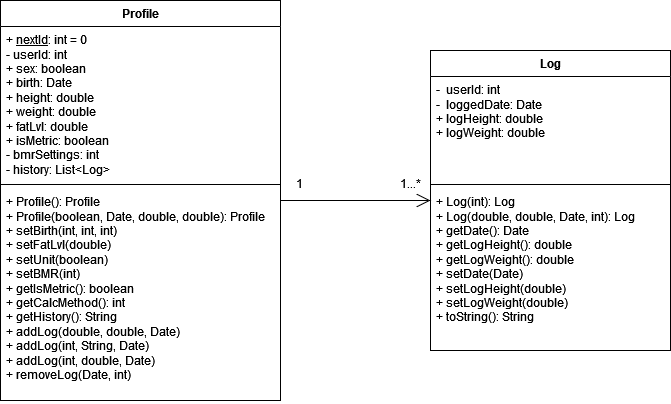
Component Diagram



# Class Diagrams and Initial Implementation:

Use case 1:

|  |  |  |
| --- | --- | --- |
| **Class name** | **Attribute/Method name** | **Description** |
| Profile | nextId: static int | For creating unique IDs for each profile instance. |
| userId: int | Unique ID of a Profile instance. |
| sex : boolean birth: Date height: double weight: double fatLvl: double | Fields representing the basic data each profile stores. |
| isMetric: boolean  bmrSettings: int | Fields representing the basic settings of each profile. Used to determine the inputs and outputs of some methods. |
| history: List<Log> | Log instances associated with the profile. |
| Profile Profile()  Profile Profile(boolean, Date, double, double) | Constructors. Create a new profile with specific data. For the default constructor, Profile(true, null, 0.0, 0.0) is called. |
| void setSex(boolean) void setBirth(Date) void setHeight(double) void setWeight(double) void setFatLvl(double)  void setUnit(boolean)  void setBMR(int) | Setter methods. Some might get removed if not used outside of Profile’s self-calls/edits. |
| boolean getSex() Date getBirth()  double getHeight()  double getWeight()  double getFatLvl()  boolean getIsMetric() int getCalcMethod() | Basic getter methods. |
| String getHistory() | Returns all the logs associated with the profile as a String instance. |
| void addLog(double, double, Date)  void addLog(int, String, Date) void addLog(int, double, Date) | Overloaded methods for adding new logs to the profile, each is responsible for generating a specific type of log. |
| Log removeLog(Date, int) | Find the first instance of Log in history that has the same Date and type specified, remove it, and return it to the user. |
| Log | userId: int  loggedDate: Date  logType: int  logHeight: double logWeight: double | Fields associated with all logs. userId is currently unused (possibly to be used to store and access logs from a database structure). logType is to differentiate between subclasses of Log instances (0 for Log, 1 for DataLog, 2 for MealLog, 3 for ExerciseLog)  logHeight and logWeight stores the previously added changes to the user’s Profile (including the current values) |
| Log Log(int) Log Log(Date, int) | Basic constructors, create the basic values common to all logs.  If no Date instance is provided, store a Date instance associated with the time the method was called. |
| setDate(Date) setLogType(int) | Basic setter methods. |
| Date getDate()  int getLogType() | Basic getter methods. |
| String toString() | Returns a String in the format “YY/MM/DD” |
| DataLog DataLog(int) DataLog DataLog(double, double, Date, int) | Constructors. Call the superclass constructor and store the value given (if none, stores the value 0.0 for height and weight) |
| setLogHeight(double) setLogWeight(double) | Basic setter methods.  Only takes non-negative values. If a negative value is given, throw an InvalidAttributeException. |
| double getLogHeight()  double getLogWeight() | Basic getter methods. |
| String toString() | Returns a String in the format “YY/MM/DD – Height, Weight” |



Use Case 2:

|  |  |  |
| --- | --- | --- |
| Class  Name | Attribute/Method Name | Description |
| Meal | date: String | Holds date that meal was eaten |
| mealType: String | Breakfast, lunch, dinner |
| Ingredients: List<Ingredient> | Stores ingredients of meal |
| <void> setType(String mealType)  <void> setDate(String date) | Setters for mealType attribute and date |
| <void> addIngredient(Ingredient ingredient) | Add ingredient to list |
| <int> calculateProtein ()  <int> calculateCalories ()  <int> calculateFat ()  <int> calculateCarbs() | Calculate corresponding nutrition fact |
| <String> toString() | Represent meal information in readable format |

|  |  |  |
| --- | --- | --- |
| Class  Name | Attribute/Method Name | Description |
| Ingredient | name: String | Name of ingredient |
| calories: int  fat: int  protein: int  carbs: int | Nutrient facts |
| <String> getName()  <String> setName() | Getter for name attribute  Setter for name |
| <int> getCalories()  <void> setCalories(int calories)  <int> getFat()  <void> setFat(int fat)  <int> getProtein()  <void> setProtein(int protein)  <int> getCarbs()  <void> setCarbs(int carbs) | Setters and getters for nutritional information |
| <String> toString() | Represent ingredient information in readable format |

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| --- | --- | --- |
| Class  Name | Attribute/Method Name | Description |
| MealLogger | meals: List<Meal> | List that holds meals |
| <void> logMeal (Meal meal) | Add a meal to list |
| <List<Meal>> getMeals() | Return list of meals |

A screenshot of a computer program

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Use Case 3:

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| --- | --- | --- |
| **Class name** | **Attribute/Method name** | **Description** |
| Exercise | Public Exercise( String, String, String, int, String)  Public calculateCaloriesBurnt(double):int  Public toString(): String | Creates an Exercise object and stores all the user exercise data. Also calculates calories burnt |
| ExerciseLogger | Public ExerciseLogger()  Private exercises: List<Exercise>  Public logExercise(Exercise): void  Public exercises: List<Exercise> | Creates a list to hold Exercise objects and adds Exercises to the list per user input. Also has a method to return the list. |

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| **Class name** | **Attribute/Method name** | **Description** |
| CEGraph | private static CEGraph instance  private String startDate  private String endDate  private JLabel inputDate  private JTextField start  private JLabel to  private JTextField end  private JLabel example  private JButton graph  Public static getInstance()  Public createTimeSeries(JPanel, startDate, endDate) | This class creates the GUI that asks the user the time period and uses another method to create the graph about their daily calory intake and daily exercise |

Use case 5: A screenshot of a computer

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| **Class name** | **Attribute/Method name** | **Description** |
| DNGraph | private static DNGraph instance  private String startDate  private String endDate  private JLabel inputDate  private JTextField start  private JLabel to  private JTextField end  private JLabel example  private JButton graph  Public static getInstance()  Public createPie(JPanel, startDate, endDate) | This class creates the GUI that asks the user the time period and uses another method to create the graph based on nutritional intake |

Use case 6:  
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Calculator Class

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| --- | --- | --- |
| **Class name** | **Attribute/Method name** | **Description** |
| Calculator | +calculateBMR()  +calculateCaloriesBurned() | The class gets the all the variables to calculate BMR and the calories burned and then it returns that number. |

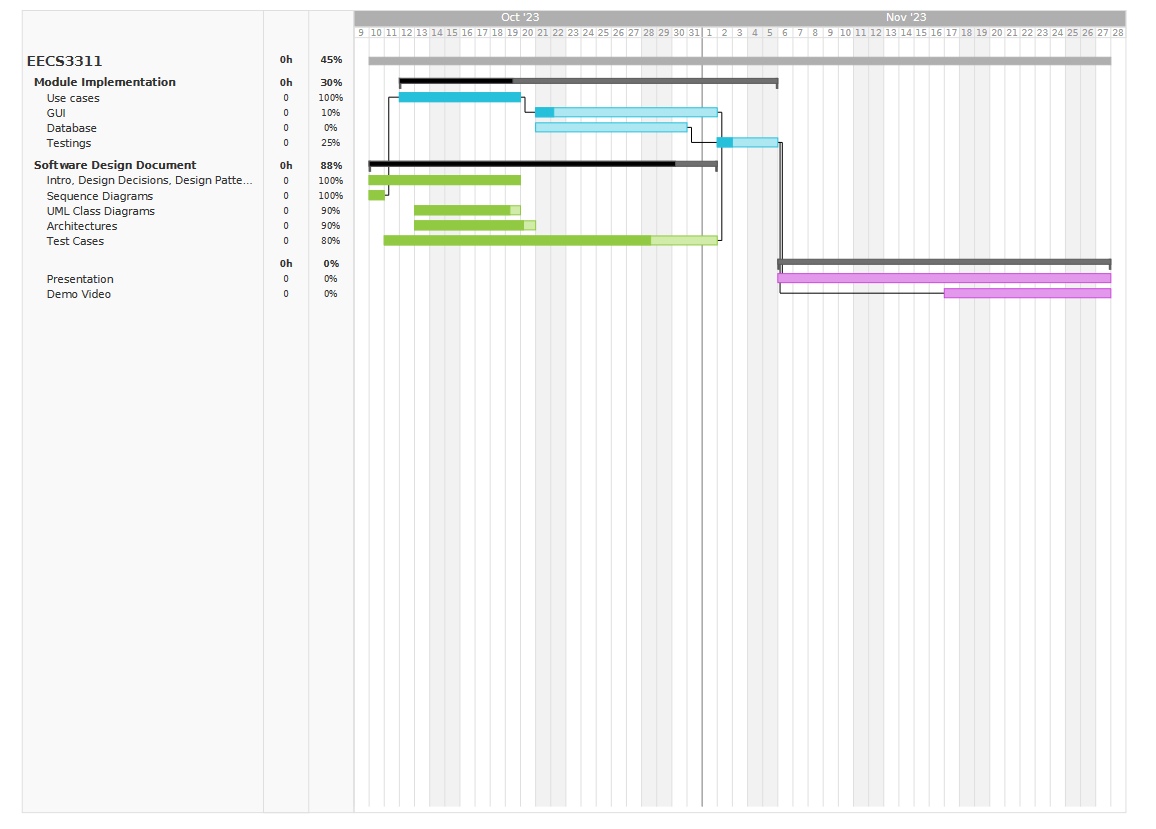
A screenshot of a computer

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# Design Patterns:

* Structural Patterns:
  + Façade: To decouple the logic modules from the view.
* Behavioral Patterns:
  + Chain of Responsibility: To deal with the possible need of requiring multiple modules to handle a request.
  + Strategy: Alternative to chain of responsibility.
  + Observer pattern: Implemented in the GUI classes through the use of action listeners on buttons, and other components.
  + Command pattern: When a button is pressed in GUI, the action listener acts as a command. The actionPerformed method is called, which encapsulates the command’s logic.
* Creational Patterns:
  + Builder: To reduce the complexity of the Log constructors (to be implemented)
  + Singleton: To ensure that there is always only one connection to the database and only one Profile object loaded at any time.

# Activities Plan, Product Backlog, and Sprint Backlog:

**GANTT Diagrams:**  


**Group Meeting Logs:**

* Oct 10th, 6:30pm:
  + Time: 30min
  + Attendance: All
  + Discussed how to split use cases to design sequence diagrams.
  + Decisions:
    - Assignment:
      * Use case 1: Khoa Tran
      * Use case 2-3: Omer Omer
      * Use case 4-5: Alex Valdez
      * Use case 6-7: Adam Mokdad
    - Finish first draft of sequence diagrams by Oct 11th.
* Oct 11th, 6:30pm:
  + Time: 1h
  + Attendance: All
  + Showing of first draft of sequence diagrams.
  + Established the modules required for the application and their basic classes.
  + Decisions:
    - Further assignment of work:
      * Architecture Summary Table: Adam Mokdad
      * Component Diagram for architecture: Omer Omer
      * SDD – Introduction and basic structures: Khoa Tran
      * Database accessor: Khoa Tran
      * Basic test cases: Alex Valdez
    - Next meeting/progress report on Oct 13th.
* Oct 13th, 2:00pm:
  + Time: 45min
  + Attendance: All
  + Decision:
    - Major Design Decision:
      * Coding: Java
      * Database: MySQL
      * Canada Food Guide: 2007 version (more detailed)
    - Discussed the design patterns being used: Builder, Façade, Bridge
    - Next meeting/progress report on Oct 16th.
* Oct 16th, 9:00pm:
  + Time: 30min
  + Attendance: All
  + Discussed the goal for the deadline of the Deliverable 1.
  + Decision:
    - Implementations of main methods for all modules (for testing).
    - Major Design Decision:
      * MVC (to be changed)
    - Implementations of basic MET values.
    - Change in implementation of nutrient intake to better meet use case’s need.
    - Final meeting before Deliverable 1 planned.
* Oct 19th, 10:00pm:
  + Time:
  + Attendance: All
  + Quick discussion final necessary components of Deliverable 1.
  + Decisions:
    - Creations of UML class diagrams specific to each module.
    - Completion of the SDD.
* Oct 31st, 7:00pm:
  + Time: 25min
  + Attendance: All
  + Discussed responsibilities for the next stretch of the project.
  + Decision:
    - GUIs temporarily split into 4 based on previous use-case assignments.
    - Exercise intensity chart: Omer Omer
    - Databases: Khoa Tran
    - Adjusting test cases to better fit requirements: Alex Valdez
* Nov 7th, 9:30pm:
  + Time: 20min
  + Attendance: All
  + Discussed required changes to implementation.
  + Quick demo of some GUI components.
  + Decision:
    - Database for profiles and logs are required.
    - Changes needed to MealLog.java to match the information stored in the given database.
    - Continue development of GUIs and databases.
* Nov 14th, 10pm:
  + Time: 20min
  + Attendance: All
  + Discussed the coupling of the modules and explained how to load and perform queries on the database.
  + Decision:
    - Continue developing and adjusting the GUIs and database queries.
    - Clarified usage of elements between modules.

# Test Driven Development:

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| --- | --- |
| Test ID | T0001 |
| Category | The profile creation tool works, the profile will show on the splash screen and allows for simple editing |
| Requirements Coverage | UC1-Successful-Data-Load |
| Initial Condition | System has been initiated and runs |
| Procedure | 1. Remove all profiles from the database 2. Adds age. Input 23 3. Adds sex. Input male 4. Adds their date of birth. Input December 20th, 2005 5. Adds their height. Input 5’7ft 6. Adds their weight. Input 165 lbs 7. Change weight to 170 lbs |
| **Expected Outcome** | The users profile should be added ,with changes, and will be displayed in the splash screen  User : Adam Smith  Age - 23  Sex - male  Date of Birth - December 20th 2005  Height - 5’7 ft  Weight - 170 lbs |
| **Notes** | Assume the user inputs the right input, height, age and weight being over zero. Date of birth not being greater than the current date. |

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| Test ID | T0002 |
| Category | The log meal tool works and the user being able to view their meals nutrient value |
| Requirements Coverage | UC2-Successful-Data-Load |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information |
| Procedure | 1. Input the date the meal was eaten. Input March 11th, 2021 2. Input whether the meal was breakfast, lunch, dinner or snack. Input snack 3. Input the food eaten. Input bread. 4. Input the amount of the food eaten, Input one slice of bread |
| **Expected Outcome** | The application must log the meal data, and the user should be able to see the food nutrient data.  Food successfully logged!  Snacks nutrient information  Calories 32g  Total fat 0.4g  Saturated fat 0.1g  Trans fat regulation 0g  Cholesterol 0mg  Sodium 58.9mg  Potassium 13.8mg  Total Carbohydrate 6g  Protein 1.1g |
| **Notes** | Assume the user inputs the right input. |

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| --- | --- |
| Test ID | T0003 |
| Category | The log exercise tool works and the user being able to view their meals nutrient value |
| Requirements Coverage | UC3-Successful-Data-Load |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information |
| Procedure | 1. Input date and time of the exercise. Input March 11th, 2021. 2. Input the type of exercise. Input running. 3. Input the duration. Input 60 mins. 4. Input the intensity. Input medium |
| **Expected Outcome** | The application must log the exercise data.  Exercise successfully logged! |
| **Notes** | Assume the user inputs the right input. |

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| --- | --- |
| Test ID | T0004 |
| Category | BMR and calories burnt is successfully calculated |
| Requirements Coverage | UC3-Successful-Calculation |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information |
| Procedure | 1. Input date and time of the exercise. Input March 11th, 2021. 2. Input the type of exercise. Input running. 3. Input the duration. Input 60 mins. 4. Input the intensity. Input medium |
| **Expected Outcome** | The application must log the exercise data. BMR and calories successfully calculated  Amount of calories burnt - 600\*  BMR - 1600\* calories  \*sample data not accurate, only used as example |
| **Notes** | Assume the user inputs the right input. |

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| --- | --- |
| Test ID | T0005 |
| Category | Graph calorie intake and exercise over a inputted time period |
| Requirements Coverage | UC4-Successful-Visualization |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information, their meal information and exercise information. |
| Procedure | 1. Input start date. Input December 1st, 2021 2. Input end date. Input December 5th, 2021 3. Click graph button |
| **Expected Outcome** | Line graph created and accurately graphs the users calorie intake and exercise over December 1st to December 5th. |
| **Notes** | Assume the user inputs the right input. Start date being less than end date |

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| --- | --- |
| Test ID | T0006 |
| Category | Graph nutrient intake over a inputted time period |
| Requirements Coverage | UC5-Successful-Visualization |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information, their meal information and exercise information. |
| Procedure | 1. Input start date. Input December 1st, 2021 2. Input end date. Input December 5th, 2021 3. Click graph button |
| **Expected Outcome** | Pie graph created and accurately graphs the users nutrient intake December 1st to December 5th. |
| **Notes** | Assume the user inputs the right input. Start date being less than end date |

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| --- | --- |
| Test ID | T0007 |
| Category | Display to the user the amount of weight lost from current date to inputted date |
| Requirements Coverage | UC6-Successful-Calculation |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information, their meal information and exercise information. |
| Procedure | 1. Input future date. Input December 10th, 2021 2. Click calculate   \*Assume the current date is December 1st, 2021 |
| **Expected Outcome** | Amount of weight lost is accurately calculated from current date to future date. Using the info from meal and exercise log.  Amount of fat lost successfully calculated!  Amount of fat lost from today to December 10th, 2021 is 8kg |
| **Notes** | Assume the user inputs the right input. Future date being greater than the current date |

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| Test ID | T0008 |
| Category | Display to the user how well their diet aligns with the Canadian food guide (CFG) |
| Requirements Coverage | UC7-Successful-Calculation |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information, their meal information and exercise information. |
| Procedure | 1. Click button |
| **Expected Outcome** | Diet related data is successfully accessed and compared to the CFG |
| **Notes** |  |

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| Test ID | T0009 |
| Category | Checking if the meal log application will catch when meal info is left out |
| Requirements Coverage | UC2-Successful-Error |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information. |
| Procedure | 1. Input the date the meal was eaten. Input March 11th, 2021 2. Input whether the meal was breakfast, lunch, dinner or snack. Input snack 3. Input the food eaten. Input bread. 4. Purposefully leave the amount of the food blank |
| **Expected Outcome** | The application should throw an error exception and display to the user a message saying that they have left out important information  The amount you have eaten is empty |
| **Notes** |  |

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| --- | --- |
| Test ID | T0010 |
| Category | Checking if the exercise log application will catch when exercise info is left out |
| Requirements Coverage | UC3-Successful-Error |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information. |
| Procedure | 1. Input date and time of the exercise. Input March 11th, 2021. 2. Input the type of exercise. Input running. 3. Input the duration. Input 60 mins. 4. Purposefully leave the intensity of the exercise blank |
| **Expected Outcome** | The application should throw an error exception and display to the user a message saying that they have left out important information  The intensity of the exercise is empty |
| **Notes** |  |

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| --- | --- |
| Test ID | T0011 |
| Category | Checking if use case five and six will catch when the user inputs an end date that is less than the start date |
| Requirements Coverage | UC5-Successful-Error |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information, their meal information and exercise information. |
| Procedure | 1. Input start date. Input December 5st, 2021 2. Input end date. Input December 1th, 2021 3. Click graph button |
| **Expected Outcome** | The application should throw an error exception and display to the user that the inputted date is incorrect  The inputted date does not make sense |
| **Notes** |  |

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| --- | --- |
| Test ID | T0012 |
| Category | Checking if the meal log application will catch when user tries to input more than one breakfast/lunch/dinner |
| Requirements Coverage | UC2-Successful-Error |
| Initial Condition | System has been initiated and runs, the user has correctly logged their profile information. |
| Procedure | 1. Input the date the meal was eaten. Input March 11th, 2021 2. Input whether the meal was breakfast, lunch, dinner or snack. Input breakfast. 3. Input the food eaten. Input bread. 4. Input the amount of the food eaten, Input one slice of bread. 5. Input the date the meal was eaten. Input March 11th, 2021 6. Input whether the meal was breakfast, lunch, dinner or snack. Input breakfast. 7. Input the food eaten. Input oatmeal. 8. Input the amount of the food eaten, Input sixty grams of oatmeal |
| **Expected Outcome** | The application should register the first meal as breakfast, but then the application should throw an error exception and display to the user that they can not input two breakfasts  Food successfully logged!  Snacks nutrient information  Calories 32g  Total fat 0.4g  Saturated fat 0.1g  Trans fat regulation 0g  Cholesterol 0mg  Sodium 58.9mg  Potassium 13.8mg  Total Carbohydrate 6g  Protein 1.1g  You cannot have more than one breakfast meal |
| **Notes** |  |