

ASSIGNMENT 2

DPIT 121 Object Oriented Design And Programming

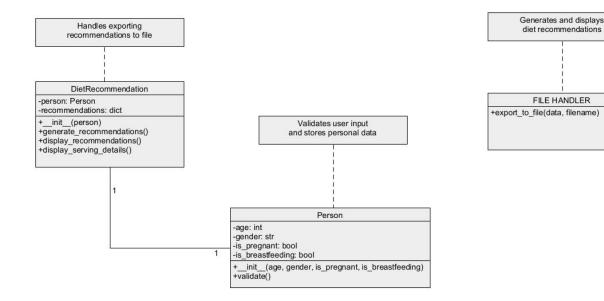


DECEMBER 20, 2024 MINH HUY LOI 8557639

Contents

UML Diagrams	2
Program Description	2
User Output Screenshot	4
Oser Output Screenshot	4
Unit Test Screen Shot	7
Terminal Report	_
Terminal Report	7
HTML Report	8

UML Diagrams



Program Description

This Python program is designed as a **Dietary Recommendation System** that provides tailored dietary guidelines based on user-specific attributes such as age, gender, pregnancy, and breastfeeding status. Its key features include:

User Input and Validation:

- Collects user data (age, gender, and special conditions like pregnancy or breastfeeding).
- Validates the inputs to ensure accuracy and handle exceptional cases.

Dietary Recommendations:

Generates personalized daily recommendations for the five main food groups:
 vegetables, fruits, grains, meats, and dairy.

o Incorporates detailed single-serving examples for each food group.

Export Capability:

o Allows users to export their recommendations to a text file for future reference.

Error Handling:

o Handles invalid inputs gracefully with descriptive error messages.

Object-Oriented Design:

- o The program uses OOP principles for modularity and scalability:
 - Person class handles user-specific data and validation.
 - DietRecommendation class calculates and displays personalized dietary suggestions.
 - FileHandler class manages file export operations.
- o This structure makes the program easy to extend for additional functionalities.

Static Methods:

 Serving details and file export functionalities are implemented as static methods to emphasize their independence from instance attributes.

Extensibility:

The DietRecommendation class includes multiple conditions based on age groups,
 making it adaptable for future updates or new dietary rules.

Input Validation:

- Age must be between 1 and 120.
- o Gender must be either "male" or "female."
- o Pregnancy and breastfeeding conditions are invalid for minors (<18 years).

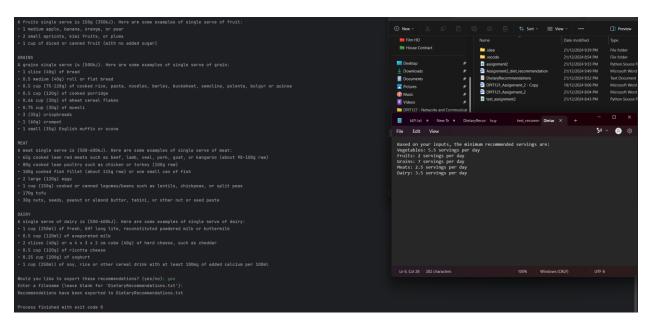
Graceful Error Recovery:

- o try-except blocks catch invalid inputs and unexpected exceptions to prevent crashes.
- User-friendly messages guide users to correct their inputs.

User Output Screenshot

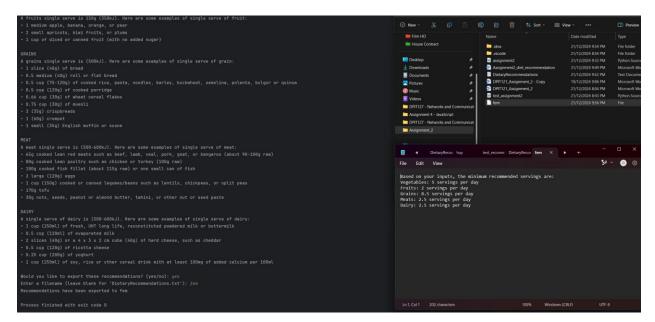
Male 18 Years Old – Export file Named by default:

```
Start your good (Dalifemania): note
Start your good or servings per day
Starting per
```



Female 20 - pregnant - Export File Named "fem":

```
Extery our personal Charge Cha
```



Female 8 years old:

```
State your space (make/femala): famile
Same of your imports, the minimum recommended servings are:

**springline is a function per day

**
```

FORTIS A Public serve is 150 (150a). Serve are some examples of single serve of fruit: - 2 setal implicits, basis fortis, prime - 1 cap of diced or canned fruit (with no medical super) SORISE SORISE A prime single serve is (500ks). Now ears some examples of single serve of grain: - 1 site (40g) of breed - 2 setal implicits, basis fortis, pasts, nooflee, barley, buckehest, sembline, palents, bulger or quince - 3 set (10g) of cheese creat flames - 3 set (10g) of cheese creat flames - 4 set (10g) of cheese creat flames - 5 set (10g) of semant creat flames - 15 sept (15g) of semant creat flames - 15 sept (15g) of semant creat flames - 15 sept (15g) flamin median or some examples of single serve of meat: - 15g condex learn red meats such as beref, leaky, veal, pox, goat, or kempareo (shout 90-100g rem) - 15g condex learn red meats such as beref, leaky, veal, pox, goat, or kempareo (shout 90-100g rem) - 15g condex learn red meats such as beref, leaky, veal, pox, goat, or kempareo (shout 90-100g rem) - 15g condex learn red meats such as beref, leaky, veal, pox, goat, or kempareo (shout 90-100g rem) - 15g condex learn red meats such as beref, leaky, veal, pox, goat, or kempareo (shout 90-100g rem) - 15g condex learn red meats such as leatis, chickpean, or split pass - 1 cog (15g) condex or canned leapness/beans such as leatis, chickpean, or split pass - 1 cog (15g) or special content content content or seed passes - 15g condex learn red meats such as leatis, chickpean, or split pass - 1 cog (15g) or special content c

Unit Test Screen Shot

Terminal Report

```
Edition Discrete Corporation. All rights reserves.

Idental the Letter PowerSold for one features and improvements http://ma.ma/PSE/cdem

FS Disk Story File(SFII32 - Python SGF/Astsponent_D coverage run on united discover

SEATH pure gas file(SFII32 - Python SGF/Astsponent_D coverage run on united discover

SEATH pure gas file(SFII32 - Python SGF/Astsponent_D coverage run on united discover

SEATH pure gas file(SFII32 - Python SGF/Astsponent_D coverage run on united discover

SEATH pure gas file(SFII32 - Python SGF/Astsponent_D coverage run on united discover

SEATH pure gas file(SFII32 - Python SGF/Astsponent_D coverage run

**PSTITE Astsponent gas file(SFII32 - Python SGF/Astsponent_D coverage run

**SGIIALS As specials single serve is TSG (180-3560.) Here are some examples of single serve of Popularie.

**SGF as file single serve is TSG (180-3560.) Here are some examples of single serve of Popularie.

**SGF as file single serve is TSG (180-3560.) Here are some examples of single serve of Popularie.

**SGF as file single serve is TSG (180-3560.) Here are some examples of single serve of Popularie.

**SGF as file single serve is TSG (180-3560.) Here are some examples of single serve of Popularie.

**SGF as serve is TSG (180-3560.) Here are some examples of single serve of Popularie.

**SGF as serve is TSG (180-3500.) Here are some examples of single serve of Popularie.

**SGF as serve is TSG (180-3500.) Here are some examples of single serve of Popularie.

**SGF as serve is TSG (180-3500.) Here are some examples of single serve of Popularie.

**SGF as serve is TSG (180-3500.) Here are some examples of single serve of Popularie.

**SGF (180-3500.) Here are some first it to read

**SGF (180-3500.) The read of the Popularie.

**SGF (180-3500.
```

```
- 0.00 (200) of wheat corest takes
- 1.00 (200) of wheat corest takes
- 2.00 (200) of
```

HTML Report



