

Java Programming – Project

Piotr Batrtman

Wyższa Szkoła Biznesu - National Louis University

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* - only for pair projects

I encourage you to create private repository on GitHub for additional points.

1 Required classes

export() – export to file

import() – import from file

1.1 WeekMenu

- export()
- import()
- DayMenu for every day (from monday to sunday)

1.2 DayMenu

- cal - has to equal $2000 + / - 10\%$
- 3 Meals

1.3 Meal

- name
- cal
- *type (BREAKFAST (meal id % 3 == 0), LUNCH (meal id % 3 == 1), DINNER (meal id % 3 == 2))
- listOfIngredients

1.4 ListOfIngredients

- export()
- import()
- Ingredients
- *ListOfIngredients add(ListOfIngredients)
- *ListOfIngredients subtract(ListOfIngredients)

1.5 Ingredient

- Product
- quantity (in product unit)

1.6 Product

- name
- quantityInPack
- cal (per 100g/ml or per pcs)
- unit (g, ml, pcs)
- price

1.7 ShoppingList

- export()
- estimatedValue

1.8 *Fridge

- export()
- import()
- listOfIngredients

2 Workdir

2.1 products.csv (required)

- product name
- amount in pack
- unit
- cal
- price

2.2 recipes.txt (required)

- meal name:
- quantity of product
- product name (with "s" for countable products)
- quantity of product
- product name (with "s" for countable products)
- ...

2.3 *fridge.csv

- product name
- amount

2.4 shoppinglist.csv

First row should contain:

- *number of products (each pack and piece included)
- *estimated weight (assume each pcs==100g, and 1ml==1g)
- estimated total value

Next lines:

- product name
- number of
- price

2.5 menu.txt

- DAY NAME (cal, *\$price)
- BREAKFAST (cal, *\$price)
- LUNCH (cal, *\$price)
- DINNER (cal, *\$price)

3 Usage

`java dietician`

generate and save week menu in menu.txt, save shopping list in shoppinglist.csv

`java dietician --override`

`java dietician -o`

+ (overrides existed files)

`java dietician --workdir=path`

`java dietician -d=path`

+ change the working directory

* `java dietician --merge`

* `java dietician -m`

+ shoppinglist.csv "=" existed shoppinglist.csv "-" menu.txt "+" fridge.csv

+ overrides menu.txt

** `java dietician -calories=amountOfCaloriesperDay`

** `java dietician -c=amountOfCaloriesperDay`

+ change calories per day from 2000 + / - 10% to *amountOfCaloriesperDay* + / - 10%