



Università di Pisa
Scuola di Ingegneria
Dipartimento di Ingegneria dell'Informazione
Corso di Laurea Magistrale in
AIDE

Large-Scale and Multi-Structure Database

DietManager

User Manual

Application developed by

Bensi Simone, Malloggi Fabio, Nocchi Tommaso

ANNO ACCADEMICO 2021/2022

Application Guide

In the following pages are shown all the application's functionalities at a very high level.

The users must be connected through VPN to the UNIFI network;
this because all the databases necessary for the proper functioning of the application are there.

First of all, you have to run the application

After you can simply Log-In if you're already registered, or Sign-Up to the application

We also provided an admin account and a test account

Type of account	Username	Password
Admin Account	admin0	admin0
Test Account	livorno	livorno

1° step: Log-in / Registration / End

```
=====> Welcome to DietManager Application  
==> Type "S" for Sign-in  
==> Type "R" for Register  
==> Type "end" for StandardUser
```

Log-In

```
=====> Welcome to DietManager Application
==> Type "S" for Sign-in
==> Type "R" for Register
==> Type "end" for exit
> S
=====> Sign In:
==> insert username:
> admin0

==> insert password:
> admin0
username: admin0, password: admin0
*****Welcome admin0*****
Write help or write a command
> |
```

Registration

Fill in all the fields to register

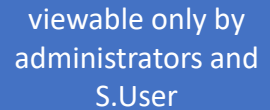
```
=====> Welcome to DietManager Application
==> Type "S" for Sign-in
==> Type "R" for Register
==> Type "end" for StandardUser
> R
=====> Registration:
==> insert username:
> andreaRossi99
==> insert password:
> andreaRossi99
==> insert fullName:
Andrea Rossi
==> insert age:
22
==> insert sex:
M
==> insert country:
Italy
==> insert userType:"
==> Type "SU" for StandardUser
==> Type "N" for Nutritionist

> SU
StandardUser correttamente generato!
Write help or write a command
> |
```

General help

help command

viewable only by
administrators and
S.User



```
Write help or write a command
> help
=====> Welcome andreaRossi99
=====> help
help food      -> retrieve help commands on foods
help diet      -> retrieve help commands on diets
help user      -> retrieve help commands on users
exit           -> log-out from application

Write help or write a command
> |
```

Help food command

viewable only by
administrators

```
> help food
====> help food
find -ef -personal      -> lookup your eaten foods list
add -ef "foodname"      -> add food to your eaten foods list
rm -ef "eatenFoodID"    -> remove eaten food from your eaten foods list
find -f "foodName"      -> search food by name
find -ef "category"     -> lookup most eaten food by category
Write help or write a command
> |
```

viewable only by
administrators

```
> help food
find -f "foodName"      -> search food by name
find -ef "category"     -> lookup most eaten food by category
====> commands only for administrators
add -f "newFoodName"    -> add food to catalog
rm -f "foodName"        -> remove food from catalog
find -etcfec            -> sum of eaten times count for each category
Write help or write a command
> |
```

Help diet

viewable only by
nutritionist

```
Write help or write a command
> help diet
====> help diet
find -d -id "dietID"      -> search diet by ID
find -d -name "dietName"  -> search diets by names
find -d -nut"username"    -> search diets by Nutritionist username
find -d -mf               -> search most currently followed diet
find -d -mp               -> search most popular diet
find -d -mc               -> search most completed diet
find -d -mfnut "username" -> search most followed diet of a specific nutritionist

==> commands for nutritionist
add -d "dietID" "dietName" -> add diet
rm -d "dietID"             -> remove your diet
Write help or write a command
> |
```

viewable only by
administrator

```
> help diet
====> help diet
find -d -id "dietID"      -> search diet by ID
find -d -name "dietName"  -> search diets by names
find -d -nut"username"    -> search diets by Nutritionist username
find -d -mf               -> search most currently followed diet
find -d -mp               -> search most popular diet
find -d -mc               -> search most completed diet
find -d -r                -> lookup recommended diet
find -d -mfnut "username" -> search most followed diet of a specific nutritionist


==> commands for administrators
find -nnpn                -> lookup most suggested nutrient for each nutritionist

Write help or write a command
> |
```


Help user

```
Write help or write a command
> help user
==> help user
find -u -u "username"      -> search user by username
find -u -c "country"      -> search user by country
find -u -mpn              -> lookup most popular nutritionist
Write help or write a command
> |
```

viewable only by
administrators



```
> help user
==> help user
find -u -u "username"      -> search user by username
find -u -c "country"      -> search user by country
find -u -mpn              -> lookup most popular nutritionist
===> commands for administrators
rm -u "username"          -> remove user by username
Write help or write a command
> |
```

find -f «foodName»

```
Write help or write a command
> find -f PRINGLES CRISPS CHEDDAR CHEESE 5.960Z
-> search food by name
List of Food with the subString: PRINGLES
*****
Food name: PRINGLES CRISPS CHEDDAR CHEESE 5.960Z
Nutrient: Protein, Quantity: 4.4, Unit:G
Nutrient: Carbohydrate by difference, Quantity: 55.7, Unit:G
Nutrient: Fiber total dietary, Quantity: 2.4, Unit:G
Nutrient: Calcium Ca, Quantity: 43.0, Unit:MG
Nutrient: Magnesium Mg, Quantity: 24.0, Unit:MG
Nutrient: Phosphorus P, Quantity: 93.0, Unit:MG
Nutrient: Zinc Zn, Quantity: 0.5, Unit:MG
Nutrient: Vitamin A IU, Quantity: 18.0, Unit:UG
Nutrient: Vitamin B-6, Quantity: 0.3, Unit:MG
Nutrient: Fatty acids total saturated, Quantity: 9.4, Unit:G
Nutrient: Sugars total including NLEA, Quantity: 3.1, Unit:G
Write help or write a command
> |
```

find -ef «category»

```
Write help or write a command
> find -ef CHIPS/CRISPS/SNACK MIXES - NATURAL/EXTRUDED (SHELF STABLE)
-> lookup most eaten food by category
List of most eaten food by category: CHIPS/CRISPS/SNACK MIXES - NATURAL/EXTRUDED (SHELF STABLE)
Food name: PRINGLES CRISPS CHEDDAR CHEESE 5.960Z
Nutrient: Protein, Quantity: 4.4, Unit:G
Nutrient: Carbohydrate by difference, Quantity: 55.7, Unit:G
Nutrient: Fiber total dietary, Quantity: 2.4, Unit:G
Nutrient: Calcium Ca, Quantity: 43.0, Unit:MG
Nutrient: Magnesium Mg, Quantity: 24.0, Unit:MG
Nutrient: Phosphorus P, Quantity: 93.0, Unit:MG
Nutrient: Zinc Zn, Quantity: 0.5, Unit:MG
Nutrient: Vitamin A IU, Quantity: 18.0, Unit:UG
Nutrient: Vitamin B-6, Quantity: 0.3, Unit:MG
Nutrient: Fatty acids total saturated, Quantity: 9.4, Unit:G
Nutrient: Sugars total including NLEA, Quantity: 3.1, Unit:G
Write help or write a command
> |
```

add -f food name

only for
administrator

```
==> commands for administrators
add -f "newFoodName"    -> add food to catalog
rmF -f "foodName"      -> remove food from catalog
Write help or write a command
> add -f Milka choco brownie
-> add food to catalog
==> 0) insert Energy (kcal in 100g of food):
> 473
==> 1) insert Protein (mg in 100g of food):
> 4.8
==> 2) insert Fat (g in 100g of food):
> 29
==> 3) insert Carbohydrate (g in 100g of food):
> 48
==> 4) insert Sugar (g in 100g of food):
> 38
==> 5) insert Fiber (g in 100g of food):
> 1.7
==> 6) insert Vitamin A (mcg in 100g of food):
> 0
==> 7) insert Vitamin B6 (mg in 100g of food):
> 0
==> 8) insert Vitamin B12 (mg in 100g of food):
> 0
==> 9) insert Vitamin C (mg in 100g of food):
> 0
==> 10) insert Vitamin E (mg in 100g of food):
> 0
==> 11) insert Thiamine (mg in 100g of food):
> 0
==> 12) insert Calcium (mg in 100g of food):
> 0
==> 13) insert Magnesium (mg in 100g of food):
> 0
==> 14) insert Manganese (mg in 100g of food):
> 0
==> 15) insert Phosphor (mg in 100g of food):
> 0
==> 16) insert Zinc (mg in 100g of food):
> 0
Milka choco brownie correctly inserted into catalog
Write help or write a command
> |
```

find -etcfec

only for
administrator

```
> find -etcfec
-> sum of eaten times count for each category
Without category: 67
HONEY: 19
FROZEN SAUSAGES, HOTDOGS & BRATS: 7
CHOCOLATE: 47
FROZEN BACON, SAUSAGES & RIBS: 9
CROISSANTS, SWEET ROLLS, MUFFINS & OTHER PASTRIES: 8
Beef Products: 1216
VEGETARIAN FROZEN MEATS: 4
DIPS & SALSA: 52
BAKING DECORATIONS & DESSERT TOPPINGS: 34
CANNED VEGETABLES: 20
Pork Products: 2221
YOGURT/YOGURT SUBSTITUTES: 8
ICE CREAM & FROZEN YOGURT: 88
WEIGHT CONTROL: 4
WATER: 30
OTHER COOKING SAUCES: 7
PICKLES, OLIVES, PEPPERS & RELISHES: 86
BREAD & MUFFIN MIXES: 12
FRENCH FRIES, POTATOES & ONION RINGS: 7
Legumes and Legume Products: 2402
FROZEN BREAD & DOUGH: 3
TEA BAGS: 6
CRACKERS & BISCOTTI: 25
Breakfast Cereals: 2223
SAUSAGES, HOTDOGS & BRATS: 38
Spices and Herbs: 374
CANNED & BOTTLED BEANS: 6
FROZEN PREPARED SIDES: 7
COOKIES & BISCUITS: 106
BAKING ADDITIVES & EXTRACTS: 8
Meals, Entrees, and Side Dishes: 16
FROZEN PATTIES AND BURGERS: 12
Cereal Grains and Pasta: 1091
Fast Foods: 1990
TOMATOES: 11
CONFECTIONERY PRODUCTS: 17
Nut and Seed Products: 847
OTHER GRAINS & SEEDS: 14
Fruits and Fruit Juices: 2151
MILK: 17
CRUSTS & DOUGH: 18
Vegetables and Vegetable Products: 5075
CEREAL: 71
SNACK, ENERGY & GRANOLA BARS: 75
ENTREES, SIDES & SMALL MEALS: 30
CHIPS/CRISPS/SNACK MIXES - NATURAL/EXTRUDED (SHELF STABLE): 7
SWEET BAKERY PRODUCTS: 7
SUSHI: 9
BISCUITS/COOKIES (SHELF STABLE): 8
PREPARED PASTA & PIZZA SAUCES: 14
Dairy and Egg Products: 1619
CHIPS, PRETZELS & SNACKS: 39
```

add -ef food name

```
> add -ef PRINGLES CRISPS CHEDDAR CHEESE 5.960Z
-> add food to your eaten foods list
insert the quantity (in g)|
> 200
PRINGLES CRISPS CHEDDAR CHEESE 5.960Z correctly added in your EatenFoodList
Write help or write a command
>
```

rm -ef Eaten_Food_ID find ef -personal

```
> rm -ef 1
-> remove eaten food from your eaten foods list
1 correctly removed from your EatenFoodList
Write help or write a command
> find -ef -personal
-> lookup your eaten foods list
List of EatenFood : -personal
List of Eaten foods:
ID: 2, Food ID: KEEBLER,FUDGE SHOPPE,CARAMEL FILLED COOKIES, Quantity2054,Timestamp: 2022-01-08 10:40:06.347
ID: 3, Food ID: TUNA,WHITE,CND IN H2O,WO/SALT,DRND SOL, Quantity2914,Timestamp: 2022-01-08 10:40:06.45
ID: 4, Food ID: CEREALS RTE,POST GREAT GRAINS BANANA NUT CRUNCH, Quantity2612,Timestamp: 2022-01-08 10:40:06.514
ID: 5, Food ID: CHEESE,COTTAGE,LOWFAT,2% MILKFAT, Quantity342,Timestamp: 2022-01-08 10:40:06.564
ID: 6, Food ID: FRUIT SALAD,CND,HVY SYRUP,SOL&LIQUIDS, Quantity650,Timestamp: 2022-01-08 10:40:06.637
ID: 7, Food ID: PRINGLES CRISPS CHEDDAR CHEESE 5.96OZ, Quantity200,Timestamp: 2022-01-10 12:21:51.448
Write help or write a command
> rm -ef 7
-> remove eaten food from your eaten foods list
7 correctly removed from your EatenFoodList
Write help or write a command
> rm -ef 6
-> remove eaten food from your eaten foods list
6 correctly removed from your EatenFoodList
Write help or write a command
> find -ef -personal
-> lookup your eaten foods list
List of EatenFood : -personal
List of Eaten foods:
ID: 2, Food ID: KEEBLER,FUDGE SHOPPE,CARAMEL FILLED COOKIES, Quantity2054,Timestamp: 2022-01-08 10:40:06.347
ID: 3, Food ID: TUNA,WHITE,CND IN H2O,WO/SALT,DRND SOL, Quantity2914,Timestamp: 2022-01-08 10:40:06.45
ID: 4, Food ID: CEREALS RTE,POST GREAT GRAINS BANANA NUT CRUNCH, Quantity2612,Timestamp: 2022-01-08 10:40:06.514
ID: 5, Food ID: CHEESE,COTTAGE,LOWFAT,2% MILKFAT, Quantity342,Timestamp: 2022-01-08 10:40:06.564
Write help or write a command
> |
```

`rm -f food name`

```
Write help or write a command  
> rm -f 7 OZ LOBSTER TAILS  
-> remove food from catalog  
7 correctly removed from catalog  
Write help or write a command  
> |
```


find -u -u username

Not viewable the
admin details

```
Write help or write a command
> find -u -u admin0
-> search user by username
Administrator account, details not allowed
Write help or write a command
> find -u -u VehbiAkda
-> search user by username
Username: VehbiAkda, Full Name: VehbiAkda, Sex: M, Age:19, Country: Turkey, User Type:nutritionist
Write help or write a command
> |
```

find -u -c «country»

```
Write help or write a command
> find -u -c «country»
-> search user by country
Username: GiovanniAbagnale, Full Name: GiovanniAbagnale, Sex: M, Age:21, Country: Italy, User Type:standardUser
Username: EmanueleAbate, Full Name: EmanueleAbate, Sex: M, Age:27, Country: Italy, User Type:standardUser
Username: IgnazioAbate, Full Name: IgnazioAbate, Sex: M, Age:21, Country: Italy, User Type:standardUser
Username: SilvanoAbba, Full Name: SilvanoAbba, Sex: M, Age:25, Country: Italy, User Type:standardUser
Username: AgostinoAbbagnale, Full Name: AgostinoAbbagnale, Sex: M, Age:22, Country: Italy, User Type:standardUser
Username: CarmineAbbagnale, Full Name: CarmineAbbagnale, Sex: M, Age:22, Country: Italy, User Type:standardUserCurrent diet: 61d9524cf9214e2a114658b9
Username: GiuseppeAbbagnale, Full Name: GiuseppeAbbagnale, Sex: M, Age:20, Country: Italy, User Type:standardUser
Username: SionaAbbate, Full Name: SionaAbbate, Sex: F, Age:28, Country: Italy, User Type:standardUser
Username: ChristianAbbiati, Full Name: ChristianAbbiati, Sex: M, Age:23, Country: Italy, User Type:standardUser
Username: AlessandroAbbio, Full Name: AlessandroAbbio, Sex: M, Age:29, Country: Italy, User Type:standardUser
Username: GiordanoGiulioAbbondati, Full Name: GiordanoGiulioAbbondati, Sex: M, Age:15, Country: Italy, User Type:standardUser
Username: PasqualinoAbeti, Full Name: PasqualinoAbeti, Sex: M, Age:24, Country: Italy, User Type:standardUser
Username: MarioAcchini, Full Name: MarioAcchini, Sex: M, Age:33, Country: Italy, User Type:standardUser
Username: AlfredoAccorsi, Full Name: AlfredoAccorsi, Sex: M, Age:27, Country: Italy, User Type:standardUser
Username: MarcoAcerbi, Full Name: MarcoAcerbi, Sex: M, Age:23, Country: Italy, User Type:standardUser
Username: RobertAcquafresca, Full Name: RobertAcquafresca, Sex: M, Age:20, Country: Italy, User Type:standardUser
Username: LuigiAdami, Full Name: LuigiAdami, Sex: M, Age:47, Country: Italy, User Type:standardUser
Username: BeatriceAdelizzi, Full Name: BeatriceAdelizzi, Sex: F, Age:19, Country: Italy, User Type:standardUser
Username: LucaAgamennoni, Full Name: LucaAgamennoni, Sex: M, Age:24, Country: Italy, User Type:standardUser
Username: GiancarloAgazzi, Full Name: GiancarloAgazzi, Sex: M, Age:23, Country: Italy, User Type:standardUser
Username: ClaudioAgnisetta, Full Name: ClaudioAgnisetta, Sex: M, Age:20, Country: Italy, User Type:standardUser
Username: NemoAgodi, Full Name: NemoAgodi, Sex: M, Age:20, Country: Italy, User Type:standardUser
Username: DanteAgostini, Full Name: DanteAgostini, Sex: M, Age:28, Country: Italy, User Type:standardUser
Username: CarloAgostoniFaini, Full Name: CarloAgostoniFaini, Sex: M, Age:19, Country: Italy, User Type:standardUser
Username: DeboraAgreiter, Full Name: DeboraAgreiter, Sex: F, Age:22, Country: Italy, User Type:standardUser
Username: MatteoAicardi, Full Name: MatteoAicardi, Sex: M, Age:26, Country: Italy, User Type:standardUser
Username: RosariaAiello, Full Name: RosariaAiello, Sex: F, Age:27, Country: Italy, User Type:standardUserCurrent diet: 61d9524f9214e2a11465703
Username: PasqualeAiese, Full Name: PasqualeAiese, Sex: M, Age:22, Country: Italy, User Type:standardUser
Username: CleliaAilara, Full Name: CleliaAilara, Sex: F, Age:28, Country: Italy, User Type:standardUser
Username: AlessandroAimar, Full Name: AlessandroAimar, Sex: M, Age:25, Country: Italy, User Type:standardUser
Username: GiacomoAlmoni, Full Name: GiacomoAlmoni, Sex: M, Age:24, Country: Italy, User Type:nutritionist
Username: AntonioToniAlbanese, Full Name: AntonioToniAlbanese, Sex: M, Age:30, Country: Italy, User Type:standardUser
Username: FabioAlbarelli, Full Name: FabioAlbarelli, Sex: M, Age:25, Country: Italy, User Type:standardUser
Username: MarcoAlbarello, Full Name: MarcoAlbarello, Sex: M, Age:27, Country: Italy, User Type:standardUser
Username: AldoLucianoAlbera, Full Name: AldoLucianoAlbera, Sex: M, Age:29, Country: Italy, User Type:standardUser
Username: AlbertoAlberaniSamaritani, Full Name: AlbertoAlberaniSamaritani, Sex: M, Age:21, Country: Italy, User Type:standardUser
Username: AngelaAlberti, Full Name: AngelaAlberti, Sex: F, Age:23, Country: Italy, User Type:standardUser
Username: BrunoAlberti, Full Name: BrunoAlberti, Sex: M, Age:25, Country: Italy, User Type:standardUser
Username: DemetrioAlbertini, Full Name: DemetrioAlbertini, Sex: M, Age:20, Country: Italy, User Type:standardUser
Username: RenoLuigiAlberton, Full Name: RenoLuigiAlberton, Sex: M, Age:19, Country: Italy, User Type:standardUserCurrent diet: 61d9523bf9214e2a1146533b
Username: AbramoAlbini, Full Name: AbramoAlbini, Sex: M, Age:20, Country: Italy, User Type:standardUser
Username: ErnestoAlciati, Full Name: ErnestoAlciati, Sex: M, Age:22, Country: Italy, User Type:standardUser
Username: GiovannaAldegani, Full Name: GiovannaAldegani, Sex: F, Age:19, Country: Italy, User Type:standardUser
Username: MarioAlasini, Full Name: MarioAlasini, Sex: M, Age:28, Country: Italy, User Type:standardUserCurrent diet: 61d95233f9214e2a11465163
Username: GaspareAlessandri, Full Name: GaspareAlessandri, Sex: M, Age:24, Country: Italy, User Type:standardUser
Username: LucianoCesareAlfieri, Full Name: LucianoCesareAlfieri, Sex: M, Age:24, Country: Italy, User Type:standardUser
Username: GiovanniBattistaGianbattistaAlfonsetti, Full Name: GiovanniBattistaGianbattistaAlfonsetti, Sex: M, Age:22, Country: Italy, User Type:standardUser
Username: EricaAlfridi, Full Name: EricaAlfridi, Sex: F, Age:32, Country: Italy, User Type:standardUser
Username: PietroAlgeri, Full Name: PietroAlgeri, Sex: M, Age:21, Country: Italy, User Type:standardUser
Username: VittorioAlgeri, Full Name: VittorioAlgeri, Sex: M, Age:23, Country: Italy, User Type:standardUser
Username: GiuseppeAliberti, Full Name: GiuseppeAliberti, Sex: M, Age:23, Country: Italy, User Type:standardUser
```

find -u -mpn

Write help or write a command

> *find -u -mpn*

-> lookup most popular nutritionist

Username: IsabelleBrasseur(-Marval), Full Name: IsabelleBrasseur(-Marval), Sex: F, Age:17, Country: Canada-3, User Type:nutritionist

Write help or write a command

> |

`rm -u username`

```
> rm -u PerKnutAaland  
-> remove user, with username: PerKnutAaland  
PerKnutAaland correctly removed  
Write help or write a command  
> |
```

find -d -id ID

```
> find -d -id 61d95233f9214e2a1146514d
-> search diet by ID
Diet, ID: 61d95233f9214e2a1146514d, Name: Fitness Hopes, Nutritionist: SteenKjlhede
Nutrient: Energy, Quantity: 589.1420611853266, Unit:KCAL
Nutrient: Protein, Quantity: 274.1495090356776, Unit:G
Nutrient: Fat, Quantity: 33.60247766310579, Unit:G
Nutrient: Carb, Quantity: 66.8645300828058, Unit:G
Nutrient: Sugar, Quantity: 30.55815220227428, Unit:G
Nutrient: Fiber, Quantity: 27.574238610677625, Unit:G
Nutrient: VitA, Quantity: 13348.79516202987, Unit:UG
Nutrient: VitB6, Quantity: 2418.6569200034273, Unit:MG
Nutrient: VitB12, Quantity: 40.38196929729065, Unit:UG
Nutrient: VitC, Quantity: 1200.880534447203, Unit:MG
Nutrient: VitE, Quantity: 200.91656809132806, Unit:MG
Nutrient: Thiamin, Quantity: 15114.15225122917, Unit:MG
Nutrient: Calcium, Quantity: 4887.455273442814, Unit:MG
Nutrient: Magnesium, Quantity: 380.5402346500799, Unit:MG
Nutrient: Manganese, Quantity: 114.0493229001083, Unit:MG
Nutrient: Phosphorus, Quantity: 6288.257200728842, Unit:MG
Nutrient: Zinc, Quantity: 234.26522877227816, Unit:MG
Write help or write a command
> |
```

find -d -subName sub name

```
Write help or write a command
> find -d -name Eat Well and Lose Weight
-> search diets by names
Diet, ID: 61d95233f9214e2a11465153, Name: Eat Well and Lose Weight, Nutritionist: GiacomoDiSegni
Nutrient: Energy, Quantity: 273.6303669551518, Unit:KCAL
Nutrient: Protein, Quantity: 525.8775290205427, Unit:G
Nutrient: Fat, Quantity: 67.10780160533271, Unit:G
Nutrient: Carb, Quantity: 69.5015286376042, Unit:G
Nutrient: Sugar, Quantity: 67.45683838466702, Unit:G
Nutrient: Fiber, Quantity: 44.30211390472203, Unit:G
Nutrient: VitA, Quantity: 16585.249706583814, Unit:UG
Nutrient: VitB6, Quantity: 1956.8674860370909, Unit:MG
Nutrient: VitB12, Quantity: 31.80317448694909, Unit:UG
Nutrient: VitC, Quantity: 1330.7431167565596, Unit:MG
Nutrient: VitE, Quantity: 269.35819393454403, Unit:MG
Nutrient: Thiamin, Quantity: 15361.345528851443, Unit:MG
Nutrient: Calcium, Quantity: 3924.2874683164027, Unit:MG
Nutrient: Magnesium, Quantity: 334.46277202079483, Unit:MG
Nutrient: Manganese, Quantity: 169.43541971798481, Unit:MG
Nutrient: Phosphorus, Quantity: 3511.569607956545, Unit:MG
Nutrient: Zinc, Quantity: 215.66896060782022, Unit:MG
Diet, ID: 61d95233f9214e2a11465159, Name: Clean Eating Diet, Nutritionist: SvetlanaAleksandrovnaFedotkina
Nutrient: Energy, Quantity: 439.5209291750507, Unit:KCAL
Nutrient: Protein, Quantity: 377.8574769676602, Unit:G
Nutrient: Fat, Quantity: 49.33887535849485, Unit:G
Nutrient: Carb, Quantity: 25.43366564516486, Unit:G
Nutrient: Sugar, Quantity: 28.94487528035175, Unit:G
Nutrient: Fiber, Quantity: 58.89081330280881, Unit:G
Nutrient: VitA, Quantity: 18453.94159023274, Unit:UG
Nutrient: VitB6, Quantity: 3565.3423489597303, Unit:MG
Nutrient: VitB12, Quantity: 24.956567006683343, Unit:UG
Nutrient: VitC, Quantity: 717.9752865872289, Unit:MG
Nutrient: VitE, Quantity: 177.60417224117847, Unit:MG
Nutrient: Thiamin, Quantity: 15977.684107987056, Unit:MG
Nutrient: Calcium, Quantity: 2441.1006923797336, Unit:MG
Nutrient: Magnesium, Quantity: 250.02493118300026, Unit:MG
Nutrient: Manganese, Quantity: 111.32839478779968, Unit:MG
Nutrient: Phosphorus, Quantity: 3790.8559721613606, Unit:MG
Nutrient: Zinc, Quantity: 281.1284433087433, Unit:MG
Diet, ID: 61d95235f9214e2a11465199, Name: Sparkle, Sweat, and Cheer, Nutritionist: DenisKlobuar
Nutrient: Energy, Quantity: 431.0907022752351, Unit:KCAL
Nutrient: Protein, Quantity: 661.6305616939885, Unit:G
Nutrient: Fat, Quantity: 53.39623510568001, Unit:G
Nutrient: Carb, Quantity: 68.30379907286793, Unit:G
Nutrient: Sugar, Quantity: 49.146122496288385, Unit:G
Nutrient: Fiber, Quantity: 23.584940358836665, Unit:G
Nutrient: VitA, Quantity: 7953.783054880027, Unit:UG
Nutrient: VitB6, Quantity: 2744.1890159955074, Unit:MG
Nutrient: VitB12, Quantity: 66.34047544258354, Unit:UG
Nutrient: VitC, Quantity: 1324.1320686970837, Unit:MG
Nutrient: VitE, Quantity: 301.3001987772109, Unit:MG
Nutrient: Thiamin, Quantity: 13868.61826187258, Unit:MG
Nutrient: Calcium, Quantity: 3143.165855459423, Unit:MG
Nutrient: Magnesium, Quantity: 313.13119776728803, Unit:MG
Nutrient: Manganese, Quantity: 188.4178142453515, Unit:MG
Nutrient: Phosphorus, Quantity: 4546.4981935718, Unit:MG
Nutrient: Zinc, Quantity: 441.3087064485328, Unit:MG
```

find -d -mp/ms/mf

```
> find -d -mc
-> search most completed diet
Diet, ID: 61d95238f9214e2a11465271, Name: Slim World, Nutritionist: AliAhmedSalemAl-Yazidi
Nutrient: Energy, Quantity: 541.0319434301408, Unit:KCAL
Nutrient: Protein, Quantity: 326.26498906692933, Unit:G
Nutrient: Fat, Quantity: 26.606384181266417, Unit:G
Nutrient: Carb, Quantity: 28.16180448675867, Unit:G
Nutrient: Sugar, Quantity: 55.962651834527534, Unit:G
Nutrient: Fiber, Quantity: 25.441076412820067, Unit:G
Nutrient: VitA, Quantity: 8205.574541369093, Unit:UG
Nutrient: VitB6, Quantity: 1818.0321823916545, Unit:MG
Nutrient: VitB12, Quantity: 47.102822146765064, Unit:UG
Nutrient: VitC, Quantity: 907.0430277833655, Unit:MG
Nutrient: VitE, Quantity: 307.0048418286856, Unit:MG
Nutrient: Thiamin, Quantity: 5992.940611058538, Unit:MG
Nutrient: Calcium, Quantity: 5045.20746532084, Unit:MG
Nutrient: Magnesium, Quantity: 424.6697898958763, Unit:MG
Nutrient: Manganese, Quantity: 144.5103339314342, Unit:MG
Nutrient: Phosphorus, Quantity: 6415.398123382869, Unit:MG
Nutrient: Zinc, Quantity: 238.97864125300052, Unit:MG
Write help or write a command
> |
```

```
Write help or write a command
> find -d -mf
-> search most currently followed diet
Diet, ID: 61d95241f9214e2a1146553d, Name: Weight Guru, Nutritionist: IsabelleBrasseur(-MarvaL)
Nutrient: Energy, Quantity: 471.43323523262507, Unit:KCAL
Nutrient: Protein, Quantity: 236.5008872600758, Unit:G
Nutrient: Fat, Quantity: 46.71001109838154, Unit:G
Nutrient: Carb, Quantity: 56.0188634131354, Unit:G
Nutrient: Sugar, Quantity: 65.17564863963679, Unit:G
Nutrient: Fiber, Quantity: 19.794322901173196, Unit:G
Nutrient: VitA, Quantity: 10036.732870006743, Unit:UG
Nutrient: VitB6, Quantity: 3278.426630951157, Unit:MG
Nutrient: VitB12, Quantity: 69.76740238857411, Unit:UG
Nutrient: VitC, Quantity: 1696.6562361928727, Unit:MG
Nutrient: VitE, Quantity: 153.216705266246, Unit:MG
Nutrient: Thiamin, Quantity: 8652.20982519364, Unit:MG
Nutrient: Calcium, Quantity: 3365.571808645748, Unit:MG
Nutrient: Magnesium, Quantity: 280.49285598016195, Unit:MG
Nutrient: Manganese, Quantity: 205.96742882391726, Unit:MG
Nutrient: Phosphorus, Quantity: 3349.7655456472185, Unit:MG
Nutrient: Zinc, Quantity: 201.39265224701103, Unit:MG
Write help or write a command
>
```

```
> find -d -mp
-> search most popular diet
Diet, ID: 61d95241f9214e2a1146553d, Name: Weight Guru, Nutritionist: IsabelleBrasseur(-MarvaL)
Nutrient: Energy, Quantity: 471.43323523262507, Unit:KCAL
Nutrient: Protein, Quantity: 236.5008872600758, Unit:G
Nutrient: Fat, Quantity: 46.71001109838154, Unit:G
Nutrient: Carb, Quantity: 56.0188634131354, Unit:G
Nutrient: Sugar, Quantity: 65.17564863963679, Unit:G
Nutrient: Fiber, Quantity: 19.794322901173196, Unit:G
Nutrient: VitA, Quantity: 10036.732870006743, Unit:UG
Nutrient: VitB6, Quantity: 3278.426630951157, Unit:MG
Nutrient: VitB12, Quantity: 69.76740238857411, Unit:UG
Nutrient: VitC, Quantity: 1696.6562361928727, Unit:MG
Nutrient: VitE, Quantity: 153.216705266246, Unit:MG
Nutrient: Thiamin, Quantity: 8652.20982519364, Unit:MG
Nutrient: Calcium, Quantity: 3365.571808645748, Unit:MG
Nutrient: Magnesium, Quantity: 280.49285598016195, Unit:MG
Nutrient: Manganese, Quantity: 205.96742882391726, Unit:MG
Nutrient: Phosphorus, Quantity: 3349.7655456472185, Unit:MG
Nutrient: Zinc, Quantity: 201.39265224701103, Unit:MG
Write help or write a command
> |
```

find -fd -mfnut username

```
Write help or write a command
> find -d -mfnut VehbiAkda
-> search most followed diet by Nutritionist username
Diet, ID: 61d994ab0196ed0bb23a1289, Name: Absolutely, Nutritionist: VehbiAkda
Nutrient: Energy, Quantity: 3000.0, Unit:KCAL
Nutrient: Protein, Quantity: 3000.0, Unit:G
Nutrient: Fat, Quantity: 3000.0, Unit:G
Nutrient: Carb, Quantity: 3000.0, Unit:G
Nutrient: Sugar, Quantity: 3000.0, Unit:G
Write help or write a command
```

```
> find -d -mfnut AliAbdelSami
-> search most followed diet by Nutritionist username
Write help or write a command
> Error in search the most followed diet
```

Error if the nutritionist does not have a diet or the username passed corresponds to a StandardUser

find -nnp

```
> find -nnp
-> lookup most suggested nutrient for each nutritionist
FlixMathieu: Protein
PetraBehle-Schaaf: Protein
JeremyRobertJimFox: Zinc
BoukeBenenga: Fat
FrigyesSndorPabsz: Magnesium
ClaverKamanya: Zinc
ThiagoNevesAugusto: Carb
RandalSeanMcLelland: Fiber
TrevorJohnGadd: Calcium
GabrielleGabiNance: Fat
GilsonAlvesBernardo: Calcium
ObediMwanga: Protein
YukihiroHashimoto: Phosphorus
MarijonasPetraviius: VitB12
LukKreji: Protein
JormaKaleviEteellahti: VitE
ChristianDarioLares: VitC
MarcinJurecki: VitE
GabrielOvidioCuruchet: VitB12
EbenFarringtonComins: VitC
BrorIngemarTureJohansson: Fat
MohamedAjmalMalik: Magnesium
LyudmilaVasilyevnaLysenko(-Arluskaya): VitA
LeeEverettBlair: Sugar
BangDae-Du: Fat
```

find -d -r

```
Write help or write a command
> find -d -r
-> lookup most recommended diet
Diet, ID: 61d95238f9214e2a11465271, Name: Slim World, Nutritionist: AliAhmedSalemAl-Yazidi
Nutrient: Energy, Quantity: 541.0319434301408, Unit:KCAL
Nutrient: Protein, Quantity: 326.26498906692933, Unit:G
Nutrient: Fat, Quantity: 26.606384181266417, Unit:G
Nutrient: Carb, Quantity: 28.16180448675867, Unit:G
Nutrient: Sugar, Quantity: 55.962651834527534, Unit:G
Nutrient: Fiber, Quantity: 25.441076412820067, Unit:G
Nutrient: VitA, Quantity: 8205.574541369093, Unit:UG
Nutrient: VitB6, Quantity: 1818.0321823916545, Unit:MG
Nutrient: VitB12, Quantity: 47.102822146765064, Unit:UG
Nutrient: VitC, Quantity: 907.0430277833655, Unit:MG
Nutrient: VitE, Quantity: 307.0048418286856, Unit:MG
Nutrient: Thiamin, Quantity: 5992.940611058538, Unit:MG
Nutrient: Calcium, Quantity: 5045.20746532084, Unit:MG
Nutrient: Magnesium, Quantity: 424.6697898958763, Unit:MG
Nutrient: Manganese, Quantity: 144.5103339314342, Unit:MG
Nutrient: Phosphorus, Quantity: 6415.398123382869, Unit:MG
Nutrient: Zinc, Quantity: 238.97864125300052, Unit:MG
Write help or write a command
> |
```

rm -d dietID

```

Diet, ID: 61dc40079c7f5e63a1bf02bf, Name: Absolutely Fit, Nutritionist: VehbiAkda
Nutrient: Energy, Quantity: 4444.0, Unit:KCAL
Nutrient: Protein, Quantity: 4444.0, Unit:G
Nutrient: Fat, Quantity: 4444.0, Unit:G
Nutrient: Carb, Quantity: 4444.0, Unit:G
Nutrient: Sugar, Quantity: 4444.0, Unit:G
Nutrient: Fiber, Quantity: 10.0, Unit:G
Diet, ID: 61dc42432b0117427fdb87b1, Name: AbsolutelyFit, Nutritionist: VehbiAkda
Nutrient: Energy, Quantity: 4444.0, Unit:KCAL
Nutrient: Protein, Quantity: 4444.0, Unit:G
Nutrient: Fat, Quantity: 4444.0, Unit:G
Nutrient: Carb, Quantity: 4444.0, Unit:G
Nutrient: Sugar, Quantity: 4444.0, Unit:G
Nutrient: Fiber, Quantity: 20.0, Unit:G
Write help or write a command
> rm -d 61dc40079c7f5e63a1bf02bf
-> remove diet
61dc40079c7f5e63a1bf02bf correctly removed from diet
Write help or write a command
> find -d -nut VehbiAkda
-> search diets by Nutritionist username
Diet, ID: 61d9525ef9214e2a11465ed7, Name: Lean Pinky, Nutritionist: VehbiAkda
Nutrient: Energy, Quantity: 366.34828036811643, Unit:KCAL
Nutrient: Protein, Quantity: 333.81401658973607, Unit:G
Nutrient: Fat, Quantity: 27.80763477432692, Unit:G
Nutrient: Carb, Quantity: 52.232034685750286, Unit:G
Nutrient: Sugar, Quantity: 25.447136274998474, Unit:G
Nutrient: Fiber, Quantity: 24.355525297562345, Unit:G
Nutrient: Vita, Quantity: 9250.30787084459, Unit:UG
Nutrient: VitB6, Quantity: 3067.1695948273855, Unit:MG
Nutrient: VitB12, Quantity: 55.99365287579984, Unit:UG
Nutrient: VitC, Quantity: 1373.5520031498986, Unit:MG
Nutrient: VitE, Quantity: 300.1724548855367, Unit:MG
Nutrient: Thiamin, Quantity: 13143.623551902063, Unit:MG
Nutrient: Calcium, Quantity: 5021.039289307619, Unit:MG
Nutrient: Magnesium, Quantity: 427.7270242830542, Unit:MG
Nutrient: Manganese, Quantity: 128.23669724366786, Unit:MG
Nutrient: Phosphorus, Quantity: 3173.225471745015, Unit:MG
Nutrient: Zinc, Quantity: 236.96349228682962, Unit:MG
Diet, ID: 61dc42432b0117427fdb87b1, Name: AbsolutelyFit, Nutritionist: VehbiAkda
Nutrient: Energy, Quantity: 4444.0, Unit:KCAL
Nutrient: Protein, Quantity: 4444.0, Unit:G
Nutrient: Fat, Quantity: 4444.0, Unit:G
Nutrient: Carb, Quantity: 4444.0, Unit:G
Nutrient: Sugar, Quantity: 4444.0, Unit:G
Nutrient: Fiber, Quantity: 20.0, Unit:G
Write help or write a command
> |

```

add -d dietID

```
Write help or write a command
> add -d Absolutely Fit
-> add diet: AbsolutelyFit
==> 0) insert Energy (kcal in 100g of food):
> 4444
==> 1) insert Protein (mg in 100g of food):
> 4444
==> 2) insert Fat (g in 100g of food):
> 4444
==> 3) insert Carbohydrate (g in 100g of food):
> 4444
==> 4) insert Sugar (g in 100g of food):
> 4444
==> 5) insert Fiber (g in 100g of food):
> 20
==> 6) insert Vitamin A (mcg in 100g of food):
> 0
==> 7) insert Vitamin B6 (mg in 100g of food):
> 0
==> 8) insert Vitamin B12 (mg in 100g of food):
> 0
==> 9) insert Vitamin C (mg in 100g of food):
> 0
==> 10) insert Vitamin E (mg in 100g of food):
> 0
==> 11) insert Thiamine (mg in 100g of food):
> 0
==> 12) insert Calcium (mg in 100g of food):
> 0
==> 13) insert Magnesium (mg in 100g of food):
> 0
==> 14) insert Manganese (mg in 100g of food):
> 0
==> 15) insert Phosphor (mg in 100g of food):
> 0
==> 16) insert Zinc (mg in 100g of food):
> 0
AbsolutelyFit diet correctly inserted.
```