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# **Class Index**

## 1.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

Date	
Diet	6
MealPlan	7
Patients	8
Period	

2 Class Index

# File Index

## 2.1 File List

Here is a list of all files with brief descriptions:

main.c						 																					11
utils.c						 	 				 																11
utils.h						 	 				 																12

File Index

## **Class Documentation**

## 3.1 Date Struct Reference

#include <utils.h>

## **Public Attributes**

- int day
- int month
- int year

## 3.1.1 Member Data Documentation

## 3.1.1.1 day

int Date::day

Referenced by dateInPeriod().

## 3.1.1.2 month

int Date::month

Referenced by dateInPeriod(), main(), and readFile().

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## 3.1.1.3 year

```
int Date::year
```

Referenced by dateInPeriod(), main(), and readFile().

The documentation for this struct was generated from the following file:

· utils.h

## 3.2 Diet Struct Reference

```
#include <utils.h>
```

### **Public Attributes**

- int ID
- · Date date
- char meal [50]
- char food [50]
- int calories

### 3.2.1 Member Data Documentation

### **3.2.1.1** calories

int Diet::calories

Referenced by exceededCalories(), main(), and readFile().

## 3.2.1.2 date

Date Diet::date

Referenced by main(), and readFile().

## 3.2.1.3 food

char Diet::food[50]

Referenced by main(), and readFile().

## 3.2.1.4 ID

int Diet::ID

## 3.2.1.5 meal

char Diet::meal[50]

Referenced by main(), and readFile().

The documentation for this struct was generated from the following file:

· utils.h

## 3.3 MealPlan Struct Reference

#include <utils.h>

## **Public Attributes**

- int ID
- Date date
- char meal [50]
- int minCal
- int maxCal

## 3.3.1 Member Data Documentation

## 3.3.1.1 date

Date MealPlan::date

Referenced by main(), and readFile().

## 3.3.1.2 ID

int MealPlan::ID

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## 3.3.1.3 maxCal

```
int MealPlan::maxCal
```

Referenced by main(), and readFile().

### 3.3.1.4 meal

```
char MealPlan::meal[50]
```

Referenced by main(), and readFile().

## 3.3.1.5 minCal

```
int MealPlan::minCal
```

Referenced by main(), and readFile().

The documentation for this struct was generated from the following file:

· utils.h

## 3.4 Patients Struct Reference

#include <utils.h>

## **Public Attributes**

- int ID
- char name [50]
- int phoneNumber

## 3.4.1 Member Data Documentation

## 3.4.1.1 ID

int Patients::ID

3.5 Period Struct Reference 9

## 3.4.1.2 name

char Patients::name[50]

## 3.4.1.3 phoneNumber

int Patients::phoneNumber

The documentation for this struct was generated from the following file:

• utils.h

## 3.5 Period Struct Reference

#include <utils.h>

## **Public Attributes**

- Date begin
- Date end

## 3.5.1 Member Data Documentation

## 3.5.1.1 begin

Date Period::begin

Referenced by dateInPeriod().

### 3.5.1.2 end

Date Period::end

Referenced by dateInPeriod().

The documentation for this struct was generated from the following file:

· utils.h

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## **File Documentation**

## 4.1 main.c File Reference

```
#include "utils.h"
#include <stdio.h>
```

## **Functions**

• int main ()

## 4.1.1 Function Documentation

## 4.1.1.1 main()

```
int main ( )
```

References Diet::calories, Diet::date, MealPlan::date, DIET, Diet::food, MealPlan::maxCal, Diet::meal, MealPlan::meal, MEAL\_PLAN, MealPlan::minCal, Date::month, PATIENTS, readFile(), and Date::year.

## 4.2 utils.c File Reference

```
#include "utils.h"
#include <stdio.h>
```

## **Functions**

- int readFile (char \*path, void \*data, int max\_size, FileType fileType)
- int dateInPeriod (Date date, Period period)
- int exceededCalories (Diet \*diet, int max\_size, int calories, Period period)

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## 4.2.1 Function Documentation

## 4.2.1.1 dateInPeriod()

References Period::begin, Date::day, Period::end, Date::month, and Date::year.

Referenced by exceededCalories().

## 4.2.1.2 exceededCalories()

References Diet::calories, and dateInPeriod().

### 4.2.1.3 readFile()

References Diet::calories, Diet::date, MealPlan::date, DIET, Diet::food, MealPlan::maxCal, Diet::meal, MealPlan::meal, MEAL\_PLAN, MealPlan::minCal, Date::month, PATIENTS, and Date::year.

Referenced by main().

## 4.3 utils.h File Reference

## **Classes**

- struct Date
- struct Period
- struct Patients
- struct Diet
- struct MealPlan

4.3 utils.h File Reference

## **Enumerations**

enum FileType { PATIENTS , DIET , MEAL\_PLAN }

### **Functions**

- int readFile (char \*path, void \*data, int max\_size, FileType fileType)
- int exceededCalories (Diet \*diets, int calories, Period period)

## 4.3.1 Enumeration Type Documentation

## 4.3.1.1 FileType

```
enum FileType
```

#### **Enumerator**

PATIENTS	
DIET	
MEAL_PLAN	

## 4.3.2 Function Documentation

## 4.3.2.1 exceededCalories()

```
int exceededCalories (
    Diet * diets,
    int calories,
    Period period )
```

## 4.3.2.2 readFile()

References Diet::calories, Diet::date, MealPlan::date, DIET, Diet::food, MealPlan::maxCal, Diet::meal, MealPlan::meal, MEAL\_PLAN, MealPlan::minCal, Date::month, PATIENTS, and Date::year.

Referenced by main().

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## 4.4 utils.h

## Go to the documentation of this file.

```
1 //DataTypes
2 typedef struct {
3     int day;
                int month;
                int year;
6 } Date;
8 typedef struct {
9    Date begin;
10    Date end;
11 } Period;
12
13 typedef struct {
14    int ID;
15    char name[50];
           int phoneNumber;
16
17 } Patients;
18
19 typedef struct {
20    int ID;
21    Date date;
22    char meal[50];
23
           char food[50];
          int calories;
25 } Diet;
26
27 typedef struct {
28   int ID;
29   Date date;
30
           char meal[50];
          int minCal;
31
32 int maxCal;
33 } MealPlan;
34
35 typedef enum {
36   PATIENTS,
37
37
           DIET,
           MEAL_PLAN
38
39 } FileType;
40
41 //Funcoes
42 int readFile(char *path, void *data, int max_size, FileType fileType);
43 int exceededCalories(Diet *diets, int calories, Period period);
```

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