

My Project

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Garden	5
Garden	
GardenAdministration	10
Garden_bed	7
PlantInfo	12
TestCase	
MyTestCase	12

Chapter 2

Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

Garden	5
Garden_bed	7
GardenAdministration	10
MyTestCase	12
PlantInfo	12

Chapter 3

Data Structure Documentation

3.1 Garden Class Reference

Public Member Functions

- `__init__` (self)
- `add_garden_bed` (self, length, width, soil_typ)
- `water_plants` (self, id_)
- `take_care_of_plant` (self, id_)
- `fertilizing_lant` (self, id_)
- `get_free_garden_beds` (self)
- `get_solid_type_free_beds` (self, solid)
- `get_planted_beds` (self)
- `plant_garden_bed` (self, id_, plant_name)
- `collect_garden_bed` (self, id_)

Data Fields

- `garden_plan`
- `solid_type`

3.1.1 Detailed Description

"This class creates model of garden as place

3.1.2 Member Function Documentation

3.1.2.1 `add_garden_bed()`

```
add_garden_bed (  
    self,  
    length,  
    width,  
    soil_typ )
```

"Function for adding garden bed. If fail return -1

3.1.2.2 collect_garden_bed()

```
collect_garden_bed (
    self,
    id_ )

"This function collects plantsIf fail return (-1, '')
```

3.1.2.3 fertilizing_lant()

```
fertilizing_lant (
    self,
    id_ )

"Function for fertilizing plants.If fail return -1
```

3.1.2.4 get_free_garden_beds()

```
get_free_garden_beds (
    self )

"This function returns free beds
```

3.1.2.5 get_planted_beds()

```
get_planted_beds (
    self )

"This function returns planted beds
```

3.1.2.6 get_solid_type_free_beds()

```
get_solid_type_free_beds (
    self,
    solid )

"This function returns free beds
```

3.1.2.7 plant_garden_bed()

```
plant_garden_bed (
    self,
    id_,
    plant_name )
```

"This function plantsIf fail return -3

3.1.2.8 take_care_of_plant()

```
take_care_of_plant (
    self,
    id_ )
```

"Function for taking care of plants.If fail return -1

3.1.2.9 water_plants()

```
water_plants (
    self,
    id_ )
```

"Function for watering plants.If fail return -1

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

- garden.py

3.2 Garden_bed Class Reference

Public Member Functions

- `__eq__` (self, other)
- `__init__` (self, length, width, soil_type, id_)
- `planting` (self, plant_name)
- `watering` (self)
- `fertilizing` (self)
- `take_care` (self)
- `collect` (self)
- `get_garden_bed_size` (self)
- `get_garden_bed_id` (self)
- `get_garden_bed_solid_type` (self)
- `get_plant` (self)

Data Fields

- **id_**
- **garden_bed_length**
- **garden_bed_width**
- **soil_type**
- **is_planted**
- **plant_name**
- **time_of_planting**
- **time_of_watering**
- **time_of_fertilizing**
- **time_of_taking_care**

Static Public Attributes

- int **garden_bed_length**
- str **soil_type** = "
- str **id_** = "
- int **garden_bed_width**
- dt **time_of_watering** .datetime
- dt **time_of_fertilizing** .datetime
- dt **time_of_planting** .datetime
- dt **time_of_taking_care** .datetime
- bool **is_planted** = False
- str **plant_name** = "

3.2.1 Detailed Description

"Garden bed class

3.2.2 Constructor & Destructor Documentation

3.2.2.1 __init__()

```
__init__ (
    self,
    length,
    width,
    soil_type,
    id_ )
```

"Inicializing garden bed size

3.2.3 Member Function Documentation

3.2.3.1 collect()

```
collect (
    self )
```

"Function for collection plants.If fail return -1

3.2.3.2 fertilizing()

```
fertilizing (
    self )

"Function for fertilizing garden bed.If fail return -1
```

3.2.3.3 get_garden_bed_id()

```
get_garden_bed_id (
    self )

"Function for getting id.If fail return -1
```

3.2.3.4 get_garden_bed_size()

```
get_garden_bed_size (
    self )

"Function for getting size.If fail return -1
```

3.2.3.5 get_garden_bed_solid_type()

```
get_garden_bed_solid_type (
    self )

Function for getting solid type.If fail return -1
```

3.2.3.6 get_plant()

```
get_plant (
    self )

Function for getting plant name.If fail return -1
```

3.2.3.7 planting()

```
planting (
    self,
    plant_name )

"Function for planting garden bed.If fail return -2
```

3.2.3.8 take_care()

```
take_care (
    self )

"Function for taking care garden bed.If fail return -1
```

3.2.3.9 watering()

```
watering (
    self )

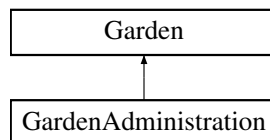
"Function for watering garden bed.If fail return -1
```

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

- garden.py

3.3 GardenAdministration Class Reference

Inheritance diagram for GardenAdministration:



Public Member Functions

- `__init__` (self)
- `ad_plant_to_encyclopdy` (self, name, preferred_solid, time_between_watering_days, time_before_collecting_week, time_between_taking_care_days, time_between_fertilizing_days)
- `ad_soil_type_to_encyclopdy` (self, name, soil)
- `get_seeds` (self)
- `buy_seeds` (self, name, num)
- `plant_garden` (self, id_, plant_name)

Data Fields

- `seeds_collection`
- `plant_encyclopdy`

3.3.1 Detailed Description

```
"This class creates model of garden as organisation
```

3.3.2 Member Function Documentation

3.3.2.1 ad_plant_to_enciclopedia()

```
ad_plant_to_enciclopedia (
    self,
    name,
    preferred_solid,
    time_between_watering_days,
    time_before_collecting_week,
    time_between_taking_care_days,
    time_between_fertilizing_days )
```

"This function adds plant to encyclopedia.If fail return -1

3.3.2.2 ad_soil_type_to_enciclopedia()

```
ad_soil_type_to_enciclopedia (
    self,
    name,
    soil )
```

"This function adds preferred soil tipe for plant to encyclopedia.If fail return -1

3.3.2.3 buy_seeds()

```
buy_seeds (
    self,
    name,
    num )
```

"This function buys.If fail return -1

3.3.2.4 get_seeds()

```
get_seeds (
    self )
```

"This function returns number of seeds

3.3.2.5 plant_garden()

```
plant_garden (
    self,
    id_,
    plant_name )
```

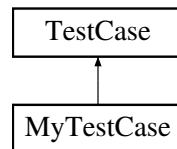
"This function plant garden.If fail return -1

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

- garden_administration.py

3.4 MyTestCase Class Reference

Inheritance diagram for MyTestCase:



Public Member Functions

- **test_garden_bed** (self)
- **test_plant_info** (self)
- **test_garden_administration** (self)

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

- test.py

3.5 PlantInfo Class Reference

Public Member Functions

- **__init__** (self, name, solid, time_between_watering, time_before_colection, time_between_taking_care, time_between_fertilizing)
- **add_pref_solid** (self, solid)
- **is_prefered** (self, solid)

Data Fields

- **name**
- **time_between_watering**
- **time_before_colecting**
- **time_between_taking_care**
- **time_between_fertilizing**

Static Public Attributes

- str **name**
- list **preferred_solid** = []
- dt **time_between_watering** .timedelta
- dt **time_before_collecting** .timedelta
- dt **time_between_taking_care** .timedelta
- dt **time_between_fertilizing** .timedelta

3.5.1 Detailed Description

"This class is base for plant encyclopedia

3.5.2 Member Function Documentation

3.5.2.1 add_pref_solid()

```
add_pref_solid (  
    self,  
    solid )
```

"This function adds preferred soil tipe to encyclopedia.

3.5.2.2 is_prefered()

```
is_prefered (  
    self,  
    solid )
```

"This function checks if soil prefered by plant.

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

- garden_administration.py

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