

#	TYPE	MATERIAL	PLACEMENT	PETS	A M E N T I E	PRICE	AREA	BEDROOMS	BATHROOMS	LEASE LENGTH
1	HOUSE	WOOD	VILLAGE	NO	GARAGEPARKING, FIREPLACE, ELEVATOR,	510	150	3	2	6
2	APARTMENT	STONE	VILLAGE	YES	GARAGEPARKING, FIREPLACE,	600	200	2	4	6
3	HOUSE	WOOD	CITY	YES	FIREPLACE, ELEVATOR,	400	120	4	1	12
4	APARTMENT	BRICK	CITY	NO	ELEVATOR,	230	120	4	2	12

Scenario 1 by Placement

Scenario 2

Scenario 3 by below specific price"500"

Scenario 4 between range of prices 600-400

Scenario 5 below specific area 150

Scenario 6 between range of area 120-200

Scenario 8 Number of bedrooms 4

Scenario 9 Allow Pets "YES"

Scenario 10 Type "Apartment"

Scenario 11 By Lease Length "6"

Scenario 12 by Amenties
"FIREPLACE, ELEVATOR"

Scenario 13

```

Feature: Search about suitable home
Background: The System has a repository of homes with their specifications (type-material-placement-pets-amenities-price-area-bedrooms-bathrooms-leaseLength)
Given these homes are contained in the system
|HOUSE_WOOD_VILLAGE_NO_GARAGEPARKING,FIREPLACE,ELEVATOR|510_150_3_2_6|
|APARTMENT_STONE_VILLAGE_YES_GARAGEPARKING,FIREPLACE|600_200_2_4_6|
|HOUSE_WOOD_CITY_YES_FIREPLACE,ELEVATOR|400_120_4_1_12|
|APARTMENT_BRICK_CITY_NO_ELEVATOR|230_120_4_2_12|

@Tag1
Scenario: Search home by Placement
When I search about home by "VILLAGE"
Then A list of homes that matches the Placement specification should be returned and printed on the console

@Tag2
Scenario: Search home by Material
When I search about home by "Wood"
Then A list of homes that matches the Material specification should be returned and printed on the console

@Tag3
Scenario: Search home by below specific price
When I search about home by 500
Then A list of homes that matches the price specification should be returned and printed on the console

@Tag4
Scenario: Search home by between range of prices
When I search about home by 600 and 400
Then A list of homes that matches the price between range of specification should be returned and printed on the console

@Tag5
Scenario: Search home by below specific area
When I search about home by area 150
Then A list of homes that matches the area specification should be returned and printed on the console

@Tag6
Scenario: Search home by between range of area
When I search about home by area 120 and 200
Then A list of homes that matches the area between range of specification should be returned and printed on the console

@Tag7
Scenario: Search home By Number of bathrooms
When I search about home by Number of bathrooms 4
Then A list of homes that matches the Number of bathrooms specification should be returned and printed on the console

@Tag8
Scenario: Search home By Number of bedrooms
When I search about home by Number of bedrooms 4
Then A list of homes that matches the Number of bedrooms specification should be returned and printed on the console

@Tag9
Scenario: Search home by Allow Pets
When I search about home by Allow Pets "YES"
Then A list of homes that matches Allow Pets specification should be returned and printed on the console

@Tag10
Scenario: Search home by Type
When I search about home by type "Apartment"
Then A list of homes that matches the Type specification should be returned and printed on the console

@Tag11
Scenario: Search home By Lease Length
When I search about home by Lease Length 6 months
Then A list of homes that matches the Lease Length specification should be returned and printed on the console

@Tag12
Scenario: Search home by Amenities
When I search about home by Amenities "FIREPLACE,ELEVATOR"
Then A list of homes that matches the Amenities specification should be returned and printed on the console

@Tag13
Scenario: Search home By Combination
Note : use "-" and keep " if you dont need to use
When I search about home by Combination "APARTMENT","NO_GARAGEPARKING","ELEVATOR","250","NO","NO","NO","NO"
Then A list of homes that matches the Combination specification should be returned and printed on the console

```

If all are "-" in Scenario13 should return the hole table as we see in the pitcher

```
60 #note : use "-" and keep " if you dont need to use
61 When I search about home by Combination "HOUSE","WOOD","VILLAGE","NO","GARAGEPARKING,FIREPLACE,ELEVATOR,"
62 Then A list of homes that matches the Combination specification should be returned and printed on the console
63
```

Console x

<terminated> PRO2020-10 [JUnit] C:\Program Files\Java\jre1.8.0_261\bin\javaw.exe (Oct 3, 2020, 11:37:41 AM)

#	TYPE	MATERIAL	PLACEMENT	PETS	A M E N T I E	PRICE	AREA	BEDROOMS	BATHROOMS	LEASE LENGTH
1	HOUSE	WOOD	VILLAGE	NO	GARAGEPARKING,FIREPLACE,ELEVATOR,	510	150	3	2	6
2	APARTMENT	STONE	VILLAGE	YES	GARAGEPARKING,FIREPLACE,	600	200	2	4	6
3	HOUSE	WOOD	CITY	YES	FIREPLACE,ELEVATOR,	400	120	4	1	12
4	APARTMENT	BRICK	CITY	NO	ELEVATOR,	230	120	4	2	12

Some examples

```
59 Scenario: Search home By Combination
60 #note : use "-" and keep " if you dont need to use |
61 When I search about home by Combination "HOUSE","WOOD","VILLAGE","NO","GARAGEPARKING,FIREPLACE,ELEVATOR,"
62 Then A list of homes that matches the Combination specification should be returned and printed on the console
63
```

Console x

<terminated> PRO2020-10 [JUnit] C:\Program Files\Java\jre1.8.0_261\bin\javaw.exe (Oct 3, 2020, 11:43:08 AM)

#	TYPE	MATERIAL	PLACEMENT	PETS	A M E N T I E	PRICE	AREA	BEDROOMS	BATHROOMS	LEASE LENGTH
1	HOUSE	WOOD	CITY	YES	FIREPLACE,ELEVATOR,	400	120	4	1	12

```
59 Scenario: Search home By Combination
60 #note : use "-" and keep " if you dont need to use
61 When I search about home by Combination "APARTMENT","STONE","VILLAGE","YES","GARAGEPARKING,FIREPLACE,ELEVATOR,"
62 Then A list of homes that matches the Combination specification should be returned and printed on the console
63
```

Console x

<terminated> PRO2020-10 [JUnit] C:\Program Files\Java\jre1.8.0_261\bin\javaw.exe (Oct 3, 2020, 11:45:52 AM)

#	TYPE	MATERIAL	PLACEMENT	PETS	A M E N T I E	PRICE	AREA	BEDROOMS	BATHROOMS	LEASE LENGTH
1	APARTMENT	BRICK	CITY	NO	ELEVATOR,	230	120	4	2	12

```
59 Scenario: Search home By Combination
60 #note : use "-" and keep " if you dont need to use
61 When I search about home by Combination "HOUSE","WOOD","VILLAGE","NO","GARAGEPARKING,FIREPLACE,ELEVATOR,"
62 Then A list of homes that matches the Combination specification should be returned and printed on the console
63
```

Console x

<terminated> PRO2020-10 [JUnit] C:\Program Files\Java\jre1.8.0_261\bin\javaw.exe (Oct 3, 2020, 2:24:24 PM)

#	TYPE	MATERIAL	PLACEMENT	PETS	A M E N T I E	PRICE	AREA	BEDROOMS	BATHROOMS	LEASE LENGTH
1	HOUSE	WOOD	VILLAGE	NO	GARAGEPARKING,FIREPLACE,ELEVATOR,	510	150	3	2	6
2	HOUSE	WOOD	CITY	YES	FIREPLACE,ELEVATOR,	400	120	4	1	12

UML

eclipse-workspace2 - PRO2020-10/outputucls - Eclipse IDE

File Edit Navigate Search Project Run Window Help

JUnit

Finished after 0.699 seconds

Runs: 13/13 Errors: 0 Failures: 0

TESTBACKAcceptencTest [Runner: JUnit 4] (0.362 s)

- Search about suitable home (0.362 s)
- Search home by Placement (0.096 s)
- Search home by Material (0.015 s)
- Search home by below specific price (0.02 s)
- Search home by between range of prices (0.01 s)
- Search home by below specific area (0.01 s)
- Search home by between range of area (0.01 s)
- Search home By Number of bedrooms (0.01 s)
- Search home by Allow Pets (0.013 s)
- Search home by Type (0.014 s)
- Search home By Lease Length (0.011 s)
- Search home by Amenities (0.011 s)
- Search home By Combination (0.107 s)

Failure Trace

History Synchronize Git Staging Git Reflog Properties Console

<terminated> AcceptencTest (2) [JUnit] C:\Program Files\Java\jdk-11.0.6\bin\javaw.exe (Oct 3, 2020, 12:54:13 PM - 12:54:16 PM)

	2	APARTMENT	STONE	VILLAGE	YES	GARAGEPARKING, FIREPLACE,	600	200	2	4	6	

UML Class Diagram:

```
classDiagram
    class HOMES {
        +addHouse(DataTable):void
        +addHouse(HOME):void
        +checkEmpty():boolean
        +printHouse():void
        +compareArrays(String[], String[]):boolean
        +searchByplace(String):HOMES
        +searchBYMaterial(String):HOMES
        +search_by_below_specific_price(String):HOMES
        +search_by_below_specific_price(int):HOMES
        +searchPyPriceBetweenRange(Integer,Integer):HOMES
        +search_py_below_specific_area(String):HOMES
        +search_py_below_specific_area(int):HOMES
        +searchPyAreaBetweenRange(Integer,Integer):HOMES
        +search_py_Number_of_bedrooms(String):HOMES
        +search_py_Number_of_bedrooms(Integer):HOMES
        +search_py_Number_of_bathrooms(String):HOMES
        +searchBYAllowPets(String):HOMES
        +searchBYtype(String):HOMES
        +search_py_LeaseLength(Integer):HOMES
        +search_py_LeaseLength(String):HOMES
        +search_py_Amenities(String):HOMES
        +checkResultPlace(String):boolean
        +checkResultMaterial(String):boolean
        +checkbelow_specific_price(int):boolean
        +checkBetween_specific_price(int,int):boolean
        +checkbelow_specific_area(int):boolean
        +checkBetween_specific_Area(int,int):boolean
        +checkNumber_of_bedrooms(int):boolean
        +checkNumber_of_bathrooms(int):boolean
        +checkAllow_Pets(String):boolean
        +checkResultType(String):boolean
        +checkLeaseLength(int):boolean
        +checkAmenities(String):boolean
    }
    class HOME {
        +type: String
        +material: String
        +placement: String
        +pets: String
        +amenities: String[]
        +price: int
        +area: int
        +bedrooms: int
        +bathrooms: int
        +leaseLength: int
    }
    HOMES --> "0..*" HOME : -HOMESGROUP
```

Console:

12:57 PM
10/3/2020