INGENIERÍA DE SOFTWARE 2

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Tema: Acceptance testing

Snapshots of the process

Install Behave library

Clone repository

```
C:\Users\anava\Documents\ing soft2\New folder\PruebasAceptacion_par1>python main.py
-------------------
        Menu
1. Search by name
2. Search by rating
3. Search by studio
4. Exit
Ingrese opcion: 1
Input the name or part of name od the game to search: ar

2 games were found containing the word: ar
Uncharted 4: A Thief's End
Marvel's Spider-Man
-------------------
-------------------
        Menu
1. Search by name
2. Search by rating
3. Search by studio
4. Exit
Ingrese opcion: 4
2 games were found.
Devil May Cry 5
The Legend of Zelda: Breath of the Wild
-------------------
No game with the specified rating was found.
Ratings ['A'] are not an available search option.
-------------------
A game developed by Square Enix was found.
Final Fantasy XV
-------------------
No game developed by Rockstar found
-------------------
No game was released between 1999 and 2012
-------------------
5 games were found.
Devil May Cry 5
Uncharted 4: A Thief's End
The Legend of Zelda: Breath of the Wild
Final Fantasy XV
Marvel's Spider-Man
-------------------
The initial year cannot be greater than the final year of search.
-------------------
2 games were found.
Devil May Cry 5
Marvel's Spider-Man
-------------------
```

Verify the code has no errors.

```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.18363.1016]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\anava\Documents\ing soft2\New folder\PruebasAceptacion_par1>python main.py
A game was found containing the word: Devil
Devil May Cry 5
--------------------
3 games were found.
Uncharted 4: A Thief's End
Final Fantasy XV
Marvel's Spider-Man
--------------------
2 games were found.
Devil May Cry 5
The Legend of Zelda: Breath of the Wild
--------------------
No game with the specified rating was found.
Ratings ['A'] are not an available search option.
--------------------
A game developed by Square Enix was found.
Final Fantasy XV
--------------------
No game developed by Rockstar found
--------------------
No game was released between 1999 and 2012
--------------------
5 games were found.
Devil May Cry 5
Uncharted 4: A Thief's End
The Legend of Zelda: Breath of the Wild
Final Fantasy XV
Marvel's Spider-Man
--------------------
The initial year cannot be greater than the final year of search.
--------------------
2 games were found.
Devil May Cry 5
Marvel's Spider-Man
--------------------

C:\Users\anava\Documents\ing soft2\New folder\PruebasAceptacion_par1>
```
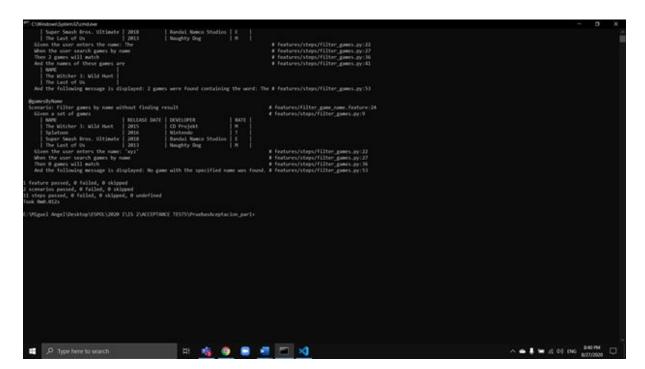
Review examples and learn from them

Develop acceptance tests

1) As a user I want to view a list of the games by rating, selecting one or more categories [E, T, M] to find games by type of audience.

i. [CA] GIVEN the user selects one or more ratings WHEN choosing the "search by ratings" option, THEN the name of all the games that correspond to these categories will be

displayed.

```python
@given('the user selects the rate: {rate}')
def step_impl(context, rate):
    context.rate = rate.split(",")
```

Given definition to get pre-condition with rate.

```python
@when("the user search games by {criteria}")
def step_impl(context, criteria):
    if(criteria == 'name'):
        result, message = get_game_name(context.games, context.name)
        print(result)
        context.result = result
        context.message = message
    elif(criteria == 'ratings'):
        result, message, error = get_game_rating(context.games, context.rate)
        print(result)
        context.result = result
        context.message = message
```

Adding rating criteria at when to identify when is looking for ratings.

```gherkin
3    Feature: Search games by rate
4
5      @gamesByRating
6      Scenario: Filter games with rate 'M' and 'E'
7        Given a set of games
8         | NAME                    | RELEASE DATE | DEVELOPER             | RATE |
9         | The Witcher 3: Wild Hunt | 2015        | CD Projekt            | M    |
10        | Splatoon                | 2016         | Nintendo              | T    |
11        | Super Smash Bros. Ultimate | 2018      | Bandai Namco Studios  | E    |
12        | The Last of Us          | 2013         | Naughty Dog           | M    |
13        Given the user selects the rate: M,E
14        When the user search games by ratings
15        Then 3 games will match
16        And the names of these games are
17         | NAME                    |
18         | The Witcher 3: Wild Hunt |
19         | Super Smash Bros. Ultimate |
20         | The Last of Us          |
21        And the following message is displayed: 3 games were found.
```

Defining first test with rate M and E.

```
@gamesByRating
Scenario: Filter games with rate 'M' and 'E'                        # features/filter_game_rating.feature:6
  Given a set of games                                             # features/steps/filter_games.py:9
    | NAME                     | RELEASE DATE | DEVELOPER           | RATE |
    | The Witcher 3: Wild Hunt | 2015         | CD Projekt          | M    |
    | Splatoon                 | 2016         | Nintendo            | T    |
    | Super Smash Bros. Ultimate | 2018       | Bandai Namco Studios | E    |
    | The Last of Us           | 2013         | Naughty Dog         | M    |
  Given the user selects the rate: M,E                            # features/steps/filter_games.py:26
  When the user search games by ratings                           # features/steps/filter_games.py:30
  Then 3 games will match                                         # features/steps/filter_games.py:44
  And the names of these games are                                # features/steps/filter_games.py:49
    | NAME                     |
    | The Witcher 3: Wild Hunt |
    | Super Smash Bros. Ultimate |
    | The Last of Us           |
  And the following message is displayed: 3 games were found. # features/steps/filter_games.py:61

2 features passed, 0 failed, 0 skipped
3 scenarios passed, 0 failed, 0 skipped
17 steps passed, 0 failed, 0 skipped, 0 undefined
Took 0m0.031s

E:\Miguel Angel\Desktop\ESPOL\2020 I\IS 2\ACCEPTANCE TESTS\PruebasAceptacion_par1>
```

Behave command output with the first scenario.

     ii.   [CA] GIVEN the user selects one or more ratings WHEN choosing the "search by ratings" option, but there is no match with the list of games, THEN the following message will be displayed: No game with the specified rating was found.

```
@gamesByRating
Scenario: Filter games by name rate without finding result
  Given a set of games
    | NAME                     | RELEASE DATE | DEVELOPER            | RATE |
    | The Witcher 3: Wild Hunt | 2015         | CD Projekt           | M    |
    | Splatoon                 | 2016         | Nintendo             | T    |
    | Super Smash Bros. Ultimate | 2018       | Bandai Namco Studios | E    |
    | The Last of Us           | 2013         | Naughty Dog          | M    |
  Given the user selects the rate: A
  When the user search games by ratings
  Then 0 games will match
  And the following message is displayed: No game with the specified rating was found.
```

Defining the second test with no rate.

```
@gamesByRating
Scenario: Filter games by name rate without finding result        # features/filter_game_rating.feature:24
  Given a set of games                                            # features/steps/filter_games.py:9
    | NAME                     | RELEASE DATE | DEVELOPER            | RATE |
    | The Witcher 3: Wild Hunt | 2015         | CD Projekt           | M    |
    | Splatoon                 | 2016         | Nintendo             | T    |
    | Super Smash Bros. Ultimate | 2018       | Bandai Namco Studios | E    |
    | The Last of Us           | 2013         | Naughty Dog          | M    |
  Given the user selects the rate: A                              # features/steps/filter_games.py:26
  When the user search games by ratings                           # features/steps/filter_games.py:30
  Then 0 games will match                                         # features/steps/filter_games.py:44
  And the following message is displayed: No game with the specified rating was found. # features/steps/filter_games.py:61

2 features passed, 0 failed, 0 skipped
4 scenarios passed, 0 failed, 0 skipped
22 steps passed, 0 failed, 0 skipped, 0 undefined
Took 0m0.001s

E:\Miguel Angel\Desktop\ESPOL\2020 I\IS 2\TallerAceptance\acceptanceTesting>
```

Behave command output with the second scenario.

1)   As a user I want to get the list of games by manufacturer to find all the games that have been developed by a certain video game studio

      i.   [CA] GIVEN the user enters a studio WHEN they select the "search by studio" option, THEN the name of all the games that have been developed by that studio will be displayed.

```
29
30    @given('the user enters the developer: {developer}')
31    def step_impl(context, developer):
32        context.developer = developer
33
```

Given definition to get pre-condition with developer.

```
5
6     @gamesByDeveloper
7     Scenario: Filter games that have developer 'CD Projekt'
8         Given a set of games
9         | NAME                     | RELEASE DATE | DEVELOPER             | RATE |
10        | The Witcher 3: Wild Hunt | 2015         | CD Projekt            | M    |
11        | Splatoon                 | 2016         | Nintendo              | T    |
12        | Super Smash Bros. Ultimate | 2018       | Bandai Namco Studios  | E    |
13        | The Last of Us           | 2013         | Naughty Dog           | M    |
14        Given the user enters the developer: CD Projekt
15        When the user search games by developer
16        Then 1 games will match
17        And the names of these games are
18        | NAME      |
19        | The Witcher 3: Wild Hunt   |
20        And the following message is displayed: A game developed by CD Projekt was found.
21
```

Defining the first test with no rate.

```
@gamesByDeveloper
Scenario: Filter games that have developer 'CD Projekt'                      # features/filter_game_developer.feature:7
    Given a set of games                                                     # features/steps/filter_games.py:9
    | NAME                     | RELEASE DATE | DEVELOPER             | RATE |
    | The Witcher 3: Wild Hunt | 2015         | CD Projekt            | M    |
    | Splatoon                 | 2016         | Nintendo              | T    |
    | Super Smash Bros. Ultimate | 2018       | Bandai Namco Studios  | E    |
    | The Last of Us           | 2013         | Naughty Dog           | M    |
    Given the user enters the developer: CD Projekt                          # features/steps/filter_games.py:30
    When the user search games by developer                                  # features/steps/filter_games.py:34
    Then 1 games will match                                                  # features/steps/filter_games.py:52
    And the names of these games are                                         # features/steps/filter_games.py:57
    | NAME      |
    | The Witcher 3: Wild Hunt |
    And the following message is displayed: A game developed by CD Projekt was found. # features/steps/filter_games.py:69

Feature: Search games by name # features/filter_game_name.feature:3
```

Behave command output with the first scenario.

      ii.   [CA] GIVEN the user enters a studio WHEN he selects the "search by studio" option, but there is no match with the list of games, THEN the following message will be displayed: No game developed by {studio} was found

```
21
22        @gamesByDeveloper
23      Scenario: Filter games by developer without finding result
24          Given a set of games
25          | NAME                    | RELEASE DATE | DEVELOPER            | RATE |
26          | The Witcher 3: Wild Hunt | 2015        | CD Projekt          | M    |
27          | Splatoon                | 2016         | Nintendo            | T    |
28          | Super Smash Bros. Ultimate | 2018      | Bandai Namco Studios | E    |
29          | The Last of Us          | 2013         | Naughty Dog         | M    |
30          Given the user enters the developer: Activision
31          When the user search games by developer
32          Then 0 games will match
33          And the following message is displayed: No game developed by Activision found
34
35
```

Defining the second test with no rate.

```
@gamesByDeveloper
Scenario: Filter games by developer without finding result          # features/filter_game_developer.feature:23
  Given a set of games                                              # features/steps/filter_games.py:9
    | NAME                    | RELEASE DATE | DEVELOPER            | RATE |
    | The Witcher 3: Wild Hunt | 2015        | CD Projekt          | M    |
    | Splatoon                | 2016         | Nintendo            | T    |
    | Super Smash Bros. Ultimate | 2018      | Bandai Namco Studios | E    |
    | The Last of Us          | 2013         | Naughty Dog         | M    |
  Given the user enters the developer: Activision                   # features/steps/filter_games.py:30
  When the user search games by developer                           # features/steps/filter_games.py:34
  Then 0 games will match                                           # features/steps/filter_games.py:52
  And the following message is displayed: No game developed by Activision found # features/steps/filter_games.py:69

Feature: Search games by name # features/filter_game_name.feature:3
```

Behave command output with the second scenario.