**Problem Analysis**

**Functional requirements Assignment #2:**

1. Create a new Serie.
2. Create a new film.
3. Show the information of one product according to one name entered by the user.
4. Create the next season of one Serie.
5. Show all the films according to one category entered by the user.
6. Show all the series and the information of its last series.

**Requirement # 1:**

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| --- | --- | --- | --- |
| Name or identifier | R1: Create a new Serie. | | |
| Abstract | The system must allow the user to create a new Serie, the name of one product can not be registered more than once | | |
| Inputs | Input name | datatype | Selection or repeat condition |
| Name | String | If the name has been registered before, it must be re-entered. |
| Name of the director | String | N/A |
| Synopsis | String | N/A |
| Opening day | Int | N/A |
| Opening month | Int | N/A |
| Opening year | Int | N/A |
| Answer if the Serie has been censored | String | N/A |
| Censored razon | String | If the Serie has been censored, it must be entered |
| Number of main actors | Int | N/A |
| Name of the actor | String [] | It must be repeated until the array is full. |
| Scheduled episodes of the first season | Int | N/A |
| Published episodes of the first season | Int | N/A |
| Link of the trailer video of the first season | String | N/A |
| General activities necessary to obtain the results | 1. User: select from the menu (create a new Serie). 2. System: Ask for Serie information. 3. System: read Serie information. 4. System: Validate that the product name is unique. 5. System: validate Serie information. 6. System: save Serie information. 7. System: show “Serie registered” | | |
| Result or postcondition | Serie registration in the systems. | | |
| Outputs | Output name | datatype | Selection or repeat condition |
| successful process message | String | If the Serie has been successfully registered in the system. |

**Requirement # 2:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R2: Create a new Film. | | |
| Abstract | The system must allow the user to create a new Film, the name of one product cannot be registered more than once | | |
| Inputs | Input name | datatype | Selection or repeat condition |
| Name | String | If the name has been registered before, it must be re-entered. |
| Name of the director | String | N/A |
| Synopsis | String | N/A |
| Opening day | Int | N/A |
| Opening month | Int | N/A |
| Opening year | Int | N/A |
| Name of the producer | String | N/A |
| Minimum age | Int | N/A |
| Number of categories | Int | It does not exist that option number, the process will finish |
| General activities necessary to obtain the results | 1. User: select from the menu (create a new Film). 2. System: Ask for Film information. 3. System: read Film information. 4. System: Validate that the product name is unique. 5. System: validate Film information. 6. System: save Film information. 7. System: show “Film registered” | | |
| Result or postcondition | Film registration in the systems. | | |
| Outputs | Output name | datatype | Selection or repeat condition |
| successful process message | String | If the Film has been successfully registered in the system. |

**Requirement # 3:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R3: Create the next season of one Serie | | |
| Abstract | The system must allow the user to create a new season of one Serie. | | |
| Inputs | Input name | datatype | Selection or repeat condition |
| Name of the serie | String | N/A |
| General activities necessary to obtain the results | 1. User: select from the menu (Create the next season of a serie). 2. System: Ask for the name of the Serie. 3. System: read the name of the Serie. 4. System: Validate that the product name exists. 5. System: if the product name does not exist show “The series has not been registered” 6. System: else ask for the information of the new serie. 7. System: read the information of the new season. 8. System: save the information of the season. 9. System: show “Season registered” | | |
| Result or postcondition | Season registration in the systems. | | |
| Outputs | Output name | datatype | Selection or repeat condition |
| successful process message | String | If the Season has been successfully registered in the system. |

**Requirement # 4:**

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| --- | --- | --- | --- |
| Name or identifier | R3: Show the information of one product according to one name entered by the user | | |
| Abstract | The system must allow the user to ask the information of one product according to one product name entered by the user. | | |
| Inputs | Input name | datatype | Selection or repeat condition |
| Product Name | String | N/a |
| General activities necessary to obtain the results | 1. User: select from the menu (Find a product). 2. System: Ask for the name of the product. 3. System: read product name. 4. System: validate that the product exists. 5. System: if the product exists show to the user the information of the product else, we will show “The product has not been registered”. | | |
| Result or postcondition |  | | |
| Outputs | Output name | datatype | Selection or repeat condition |
| successful process message | String | If the product exists, we will show to the user the information else we will show “The product has not been registered”. |

**Requirement # 5:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R3: Show all the films according to one category entered by the user. | | |
| Abstract | The system must allow to the user ask for the films of one category. | | |
| Inputs | Input name | datatype | Selection or repeat condition |
| Num of category | Int | N/A |
| General activities necessary to obtain the results | 1. User: select from the menu (Show all the films according to a category). 2. System: ask for the num that identifies the category in the menu. 3. System: read num. 4. System: if the name num corresponds to one category show all the films of that category. 5. System: if there are not films registered in that category show a message. | | |
| Result or postcondition |  | | |
| Outputs | Output name | datatype | Selection or repeat condition |
| Process successful message | String | If the new season of the serie has been registered successfully show the message |

**Requirement # 6:**

|  |  |  |  |
| --- | --- | --- | --- |
| Name or identifier | R4: Show all the series and the information of its last series | | |
| Abstract | The system must allow to the user ask for the information of all the series and the information of its last season. | | |
| Inputs | Input name | datatype | Selection or repeat condition |
| N/A | N/A | N/A |
| General activities necessary to obtain the results | 1. User: select from the menu (Show all the series and its information of the last season). 2. System: Show the information of all the series. 3. System: If there are not series registered show a message. | | |
| Result or postcondition | N/A | | |
| Outputs | Output name | datatype | Selection or repeat condition |
| Information of the series | String | If there are Series registered in the System |