**Traceability between analysis and design**

**Functional requirements Assignment #1:**

1. Create a new subscriber.
2. Deactivate a subscriber.
3. Show the number of active subscribers for each type of client.
4. Show the name of the minor subscriber who has the highest number of hours willing to consume.

**Requirement 1:**

|  |  |  |
| --- | --- | --- |
| **Request name** | **Methods** | **Class name** |
| R1: create a new subscriber | showMenu | StreamingSystem |
| executeOperation | StreamingSystem |
| showMenuSuscriber | StreamingSystem |
| createASuscriber | StreamingSystem |
| verifyIdExist | Channel |
| thereIsSpaceForSubscriber | Channel |
| addSubscriber | Channel |

**Requirement 2:**

|  |  |  |
| --- | --- | --- |
| **Request name** | **Methods** | **Class name** |
| R2: deactivate a subscriber | showMenu | StreamingSystem |
| executeOperation | StreamingSystem |
| showMenuSuscriber | StreamingSystem |
| deactiveASubscriber | StreamingSystem |
| verifySubscriberExist | Channel |
| changesOfDeactivation | Channel |

**Requirement 3:**

|  |  |  |
| --- | --- | --- |
| **Request name** | **Methods** | **Class name** |
| R3: Show the number of active subscribers for each type of client. | showMenu | StreamingSystem |
| executeOperation | StreamingSystem |
| showMenuSuscriber | StreamingSystem |
| showAmountActiveSubscribers | Channel |
| getActive | Subscriber |
| getTypeLevel | Subscriber |

**Requirement 4:**

|  |  |  |
| --- | --- | --- |
| **Request name** | **Methods** | **Class name** |
| R3: Show the name of the minor subscriber who has the highest number of hours willing to consume | showMenu | StreamingSystem |
| executeOperation | StreamingSystem |
| showMenuSuscriber | StreamingSystem |
| verifyMenor | Channel |
| getAge | Subscriber |
| getConsumptionHours | Subscriber |
| getFullName | Subscriber |