|  |  |  |
| --- | --- | --- |
| **Use-case: "Cancel subscription".** | |  |
|  |  |  |
|  |  |  |
| **Data table** | |  |
| **User Name** | **User has Subscription?** | 0 - Not subscribed  1 - Monthly Subscription  2 - Annual Subscription |
| "Adi" | 0 |  |
| "Jonathan" | 1 |  |
| "Avi" | 2 |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Preconditions:** | **User is logged in** |  |  |
|  |  |  |  |  |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Cancel\_Subscription\_User\_Not\_Subscribed | User click on "Cancel Subscription" | System throws an error message: "User doesn't have an active subscription." | User-"Adi" |
| **2** | Cancel\_Subscription\_User\_Is\_Subscribed\_Success | User click on "Cancel Subscription" | System throws a confirmation message: "Are you sure you want to unsubscribed (Yes/No)?"  User click "Yes"  System throws message: "User is no longer subscribed." | User-"Jonathan","Avi" |
| **3** | Cancel\_Subscription\_User\_Is\_Subscribed\_No\_Action | User click on "Cancel Subscription" | System throws a confirmation message: "Are you sure you want to unsubscribed (Yes/No)?"  User click "No" | User-"Jonathan", "Avi" User is still subscribed. |

|  |  |
| --- | --- |
| **Use-case: "Update book details".** | |
|  |  |
|  |  |
| **Data table** |  |
| **Book** |  |
| 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1: 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$ |  |
|  |  |
| **Preconditions:** | **1. Librarian is logged in 2. Librarian searches for a book and book is found.** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Update\_Book\_Empty\_Title | Librarian clicks on "update book details"  Form is opened  User insert: 1. Title:  2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Save" | System throws an error message: "Must fill "Title" field." |  |
| **2** | Update\_Book\_Empty\_Writer | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer:  3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Save" | System throws an error message: "Must fill "Writer" field." |  |
| **3** | Update\_Book\_Empty\_Language | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language:  4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Save" | System throws an error message: "Must fill "Language" field." |  |
| **4** | Update\_Book\_Empty\_Summary: | Librarian clicks on "update book detials" Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary:  5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Save" | System throws an error message: "Must fill "Summary" field." |  |
| **5** | Update\_Book\_Empty\_Contents | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents:  6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Save" | System throws an error message: "Must fill "Contents" field." |  |
| **6** | Update\_Book\_Empty\_Key\_words | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words:  7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$   Librarian clicks on "Save" | System throws an error message: "Must fill "Key\_words" field." |  |
| **7** | Update\_Book\_Empty\_Category | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category:  8. Subject: "Science fiction" 9. Price: 50$   Librarian clicks on "Save" | System throws an error message: "Must choose a category." | Category field is a list from the DB. |
| **8** | Update\_Book\_Empty\_Subject | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject:  9. Price: 50$  Librarian clicks on "Save" | System throws an error message: "Must choose a subject. | Subject field is a list from the DB. |
| **9** | Update\_Book\_Empty\_Price | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price:   Librarian clickss on "Save" | System throws an error message: "Must insert a price. |  |
| **10** | Update\_Book\_Successfuly | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Save" | System throws an message: "Changes are saved" |  |
| **11** | Update\_Book\_Main\_Menu | Librarian clicks on "update book detials"  Form is opened  User insert: 1. Title: "Angels And Demons" 2. Writer: "Dan Brown" 3. Language: "English" 4. Summary: "Robert langdon…." 5. Contents: "Chapter 1- 1-15..." 6. Key words: "Ambigrams, …" 7. Category: "Thriller " 8. Subject: "Science fiction" 9. Price: 50$  Librarian clicks on "Cancel" | System goes back to book search window. |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use-case: "Update category".** | | | |
|  |  |  |  |
| **Data table** | | | |
| **#** | **Category's name** | **Subjects' names (optional)** | **Exists in DB** |
| 1 | "Science" | 1. Philosophy | NO |
| 2 | "Guidance" |  | YES |
| 3 | "Culture" | 1. Music 2. Food of tribes. | YES |
|  |  |  |  |
| **Preconditions:** | **1. Librarian is logged in 3. Subjects' names are chosed from a list.** |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Update\_Category\_Search\_Category\_NOT\_Found | Librarian clicks on "update category"  Librarian searches for a category named "Science"  Librarian clicks on "enter" | System throws an error message: "Category is not found. | Category-"Science" is not exists in DB |
| **2** | Update\_Category\_CategoryName\_Empty | Librarian clicks on "update category"  Librarian searches for a category named "Guidance"  Form is opened: 1. Category's name: "Guidance" 2. Subjects:   User edit: 1. Category's name:  2. Subjects:   Librarian click on "Save" | System throws an error message: "Must fill category name field." | User edit category's name "Guidance" to empty string. |
| **3** | Update\_Category\_CategoryName\_Already\_Taken | Librarian clicks on "update category"  Librarian searches for a category named "Guidance"  Form is opened: 1. Category's name: "Guidance" 2. Subjects:   User edit: 1. Category's name: "Culture" 2. Subjects:   Librarian click on "Save" | System throws a warning message: "The name "Culture" is alredy taken, would you like to proceed? (Yes/No)."  User click "Yes".  System throws a message: "Category is updated." | User changes category's name "Guidance" to "Culture". |
| **4** | Update\_Category\_CategoryName\_Already\_Taken\_No\_Action | Librarian clicks on "update category"  Librarian searches for a category named "Guidance"  Form is opened: 1. Category's name: "Guidance" 2. Subjects:   User edit: 1. Category's name: "Culture" 2. Subjects:    Librarian click on "Save" | System throws a warning message: "The name "Culture" is alredy taken, would you like to proceed? (Yes/No)."  User click "No".  confirmation message disappears. | User changes category's name "Guidance" to "Culture". |
| **5** | Update\_Category\_With\_Subjects\_Success | Librarian clicks on "update category"  Librarian searches for a category named "Guidance"  Form is opened: 1. Category's name: "Guidance" 2. Subjects:   User edit: 1. Category's name: "Guidance" 2. Subjects:  \*Coocking  Librarian click on "Save" | System throws a message: "Category is updated." | Category-"Guidance" User Add a suject |
| **6** | Update\_Category\_Without\_Subjects\_Success | Librarian clicks on "update category"  Librarian searches for a category named "Culture"  Form is opened: 1. Category's name: "Culture" 2. Subjects:  \*Music \*Food of tribes.  User edit: 1. Category's name: "Culture" 2. Subjects:    Librarian click on "Save" | System throws a message: "Category is updated." | Category-"Culture"  subject is optional. |
| **7** | Update\_Category\_Without\_Subjects\_Cancel | Librarian clicks on "update category"  Librarian searches for a category named "Culture"  Form is opened: 1. Category's name: "Culture" 2. Subjects:  \*Music \*Food of tribes.  User edit: 1. Category's name: "Culture" 2. Subjects:    Librarian click on "Cancel" | System goes back to main menu. |  |

|  |  |  |
| --- | --- | --- |
| **Use-case: "Remove category".** | | |
|  |  |  |
| **Data table** | | |
| **#** | **Category's name** | **Subjects' names (optional)** |
| 1 | "Culture" | 1. Music 2. Food of tribes. |
|  |  |  |
| **Preconditions:** | **1. Librarian is logged in 2. Librarian searches for a category and category is found.** |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Remove\_Category\_Success | Librarian clicks on "Remove category" | System throws a warning message: "Are sure you want do delete?(Yes/No) ."  Librarian clicks "Yes"  System throws a message: "Category deleted." | Category-"Culture" |
| **2** | Remove\_Category\_No\_Action | Librarian clicks on "Remove category" | System throws a warning message: "Are sure you want do delete?(Yes/No) ."  Librarian clicks "No"  confirmation message disappears. | Category-"Culture" |
| **3** | Remove\_Category\_Cancel | Librarian clicks on "Cancel" | System goes back to main menu. |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use-case: "Update subject".** | | | |
|  |  |  |  |
| **Data table** | | | |
| **#** | **Subjects' names** | **category's name** | **Exists in DB** |
| 1 | 1.Philosophy | Secience | NO |
| 2 | 1.Art | "Guidance" | YES |
| 3 | 1. Music 2. Food of tribes. | "Culture" | YES |
|  |  |  |  |
| **Preconditions:** | **1. Librarian is logged in** |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Update\_Subject\_Search\_Subject\_NOT\_Found | Librarian clicks on "update subject"  Librarian searches for a subject named "Philosophy "  Librarian clicks on "enter" | System throws an error message: "Subject is not found." | subject-"Philosophy " is not exists in DB |
| **2** | Update\_Subject\_SubjectName\_Empty | Librarian clicks on "update subject"  Librarian searches for a subject named "Art"  Form is opened: 1. Subject's name: "Art" 2. Categories:  "Guidance"  User edit: 1. Subject's name:  2. Categories:  "Guidance"  Librarian click on "Save" | System throws an error message: "Must fill subject name field." | User edit subject's name "Art" to empty string. |
| **3** | Update\_Subject\_SubjectName\_Already\_Taken | Librarian clicks on "update subject"  Librarian searches for a subject named "Art"  Form is opened: 1. Subject's name: "Art" 2. Categories:  "Guidance"  User edit: 1. Subject's name: "Music"  2. Categories:  "Guidance"  Librarian click on "Save" | System throws a warning message: "The subject "Music" is alredy taken, would you like to proceed? (Yes/No)."  User click "Yes".  System throws a message: "subject is updated." | User changes subject's name "Art" to "Music". |
| **4** | Update\_Subject\_SubjectName\_Exists\_No\_Action | Librarian clicks on "update subject"  Librarian searches for a subject named "Art"  Form is opened: 1. Subject's name: "Art" 2. Categories:  "Guidance"  User edit: 1. Subject's name: "Music"  2. Categories:  "Guidance"  Librarian click on "Save" | System throws a warning message: "The subject "Music" is alredy taken, would you like to proceed? (Yes/No)."  User click "No".  confirmation message disappears. | User changes subject's name "Art" to "Music". |
| **5** | Update\_Subject\_With\_Category\_Success | Librarian clicks on "update subject"  Librarian searches for a subject named "Music"  Form is opened: 1. Subject's name: "Music" 2. Categories:  "Culture"  User edit: 1. Subject's name: "Music" 2. Categories:  "Culture" "Guidance"  Librarian click on "Save" | System throws a message: "subject is updated." | subject-"Music" User add a category "Guidance" to "Music" |
| **6** | Update\_Subject\_Without\_Category | Librarian clicks on "update subject"  Librarian searches for a subject named "Music"  Form is opened: 1. Subject's name: "Music" 2. Categories:  "Culture"  User edit: 1. Subject's name: "Music" 2. Categories:   Librarian click on "Save" | System throws a warning message: "Must choose a category name" | Subject-"Music" User edit category-"Culture" to empty value. |
| **7** | Update\_Subject\_Cancel | Librarian clicks on "update subject"  Librarian searches for a subject named "Music"  Form is opened: 1. Subject's name: "Music" 2. Categories:  "Culture"  User edit: 1. Subject's name: "Music" 2. Categories:   Librarian click on "Cancel" | System goes back to main menu. |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Use-case: "Remove subject".** | | | |
|  |  |  |  |
| **Data table** | | | |
| **#** | **Subjects' names** | **category's name** | **Exists in DB** |
| 1 | 1.Philosophy | Secience | NO |
|  |  |  |  |
| **Preconditions:** | **1. Librarian is logged in 2. Librarian searches for a subject and subject is found.** |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Remove\_Subject\_Success | Librarian clicks on "Remove subject" | System throws a warning message: "Are sure you want do delete?(Yes/No) ."  Librarian clicks "Yes"  System throws a message: "Subject is deleted." | Subject-Philosophy |
| **2** | Remove\_Subject\_No\_Action | Librarian clicks on "Remove subject" | System throws a warning message: "Are sure you want do delete?(Yes/No) ."  Librarian clicks "No"  confirmation message disappears. | Subject-Philosophy |
| **3** | Remove\_Subject\_Cancel | Librarian clicks on "Cancel" | System goes back to main menu. | Subject-Philosophy |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Use-case: "Create new subject".** | | | | |
|  |  |  |  |  |
| **Data table** | | | | |
| **#** | **Subjects' names** | **category's name** | **Is subject exists in DB** | **Is category exists in DB** |
| 1 | 1.Philosophy | "Science" | NO | YES |
| 2 | 1.Art | "Guidance" | YES | YES |
| 3 | 1. Music 2. Food of tribes. | "Culture" | YES | YES |
| 4 | 1.Philosophy | "X" | YES | NO |
|  |  |  |  |  |
| **Preconditions:** | **1. Librarian is logged in** |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Tests cases** | | | | |
| # | Test ID | Description | Expected Results | Comments |
| **1** | Create\_Subject\_SubjectName\_Empty | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name:  2. Categories:   User insert: 1. Subject's name:  2. Categories:  "Guidance"  Librarian click on "Save" | System throws an error message: "Must fill subject name field." | User insert empty name |
| **2** | Create\_Subject\_SubjectName\_Already\_Taken | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name: 2. Categories:   User insert: 1. Subject's name: "Music" 2. Categories:  "Guidance"  Librarian click on "Save" | System throws a warning message: "The subject "Music" is alredy taken, would you like to proceed? (Yes/No)."  User click "Yes".  System throws a message: "Subject is created." |  |
| **3** | Create\_Subject\_SubjectName\_Already\_Taken\_No\_Action | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name: 2. Categories:   User insert: 1. Subject's name: "Music" 2. Categories:  "Guidance"  Librarian click on "Save" | System throws a warning message: "The subject "Music" is alredy taken, would you like to proceed? (Yes/No)."  User click "No". |  |
| **4** | Create\_Subject\_Without\_Category | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name: 2. Categories:   User insert: 1. Subject's name: "Philosophy " 2. Categories:   Librarian click on "Save" | System throws a warning message: "Must choose a category." |  |
| **5** | Create\_Subject\_With\_Category\_Success | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name: 2. Categories:   User insert: 1. Subject's name: "Philosophy " 2. Categories: "Science"  Librarian click on "Save" | System throws a message: "Subject is created." | subject-"Philosophy" User add a category "Science" to subject "Philosophy" |
| **6** | Create\_Subject\_CategoryName\_Not\_Exists | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name: 2. Categories:   User insert: 1. Subject's name: "Philosophy " 2. Categories: "X"  Librarian click on "Save" | System throws a warning message: "Category is not found." |  |
| **7** | Create\_Subject\_Cancel | Librarian clicks on "Create subject"  Form is opened: 1. Subject's name: 2. Categories:   User insert: 1. Subject's name: "Philosophy " 2. Categories: "X"  Librarian click on "Cancel" | System goes back main menu. |  |