# GUI and Database Connectivity (COMP4604) Java GUI + Database Application Project Test Record Kevin Flynn (C18502203) and Carl Herdman (C18703995)

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| **Test Case ID** | | TEST\_001 | **Test Case Description** | | Test Login | | | | | |
| **Created By** | | Kevin | **Reviewed By** | | Kevin | | **Version** | | 1.0 | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Kevin | **Date Tested** | | 28-Apr-2022 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Access to Application | | |  | 1 | Username = “Admin” | | | | |
| 2 |  | | |  | 2 | Password = “Admin” | | | | |
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| **Test Scenario** | Verify login on entering valid username and password | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Run Application | | Application should run without errors | | As Expected | | | Pass | | |
| 2 | Enter UserName & Password | | Credentials are entered in text field | | As Expected | | | Pass | | |
| 3 | Click Submit | | User is logged in | | As Expected | | | Pass | | |

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| **Test Case ID** | | TEST\_002 | **Test Case Description** | | Test Add Books | | | | | |
| **Created By** | | Kevin | **Reviewed By** | | Kevin | | **Version** | | 1.0 | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Kevin | **Date Tested** | | 28-Apr-2022 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Access to Application | | |  | 1 | Title = “In Search of Lost Time” | | | | |
| 2 | Login to Application | | |  | 2 | Authour = “Marcel Proust” | | | | |
| 3 |  | | |  | 3 | Publisher = “Modern Library Classics” | | | | |
| 4 |  | | |  | 4 | Genre = “Modernist” | | | | |
| 5 |  | | |  | 5 | Price = “€9.90” | | | | |
| 6 |  | | |  | 6 | Stock = 3 | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Scenario** | Verify book has been added from ‘Add a Book’ page | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Click “Add Book” button from Home Page | | Application should send user to this page without errors | | As Expected | | | Pass | | |
| 2 | Enter Title, Authour, Publisher, Genre, Price and Stock of book | | Credentials are entered in text fields | | As Expected | | | Pass | | |
| 3 | Click Submit with invalid data inputted | | Error message displays on screen telling user to enter correct data | | As Expected | | | Pass | | |
| 4 | Click Submit with valid data inputted | | Confirmation message displays, telling the user that the book has been added to database | | As Expected | | | Pass | | |

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| **Test Case ID** | | TEST\_003 | **Test Case Description** | | Test Remove Books | | | | | |
| **Created By** | | Kevin | **Reviewed By** | | Kevin | | **Version** | | 1.0 | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Kevin | **Date Tested** | | 28-Apr-2022 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Access to Application | | |  | 1 | Title = “In Search of Lost Time” | | | | |
| 2 | Login to Application | | |  | 2 | Authour = “Marcel Proust” | | | | |
| 3 |  | | |  | 3 | Publisher = “Modern Library Classics” | | | | |
| 4 |  | | |  | 4 | Genre = “Modernist” | | | | |
| 5 |  | | |  | 5 | Price = “€9.90” | | | | |
| 6 |  | | |  | 6 | Stock = 3 | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Scenario** | Verify user has been removed from ‘Remove a Book’ page | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Click “Add Book” button from Home Page | | Application should send user to this page without errors | | As Expected | | | Pass | | |
| 2 | Enter Title, Authour, Publisher, Genre, Price and Stock of book | | Credentials are entered in text fields | | As Expected | | | Pass | | |
| 3 | Click Submit with invalid data inputted (i.e. Stock is not a number) | | Error message displays on screen telling user to enter correct data | | As Expected | | | Pass | | |
| 4 | Click Submit with invalid date inputted (i.e. Stock is larger than the stock available in database) | | Error message displays on screen telling the user to enter a stock value for a book that is equal or less than what is available within the database for that particular book | | As Expected | | | Pass | | |
| 5 | Click Submit with invalid data inputted (i.e. Book is not available in the database) | | Error message displays on screen telling the user to enter a book that is available within the database | | As Expected | | | Pass | | |
| 6 | Click Submit with valid data inputted | | Confirmation message displays, telling the user that the book has been added to database | | As Expected | | | Pass | | |
| **Test Case ID** | | TEST\_004 | **Test Case Description** | | Test Add Users | | | | | |
| **Created By** | | Kevin | **Reviewed By** | | Kevin | | **Version** | | 1.0 | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Kevin | **Date Tested** | | 28-Apr-2022 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Access to Application | | |  | 1 | Name = “John Flynn” | | | | |
| 2 | Login to Application | | |  | 2 | Address = “Johnstown, Enfield, County Meath” | | | | |
| 3 |  | | |  | 3 | Email = “johnflynn@gmail.com” | | | | |
| 4 |  | | |  | 4 | Phone = “0831790684” | | | | |
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| **Test Scenario** | Verify user has been added from ‘Add a User’ page | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Click “Add User” button from Home Page | | Application should send user to this page without errors | | As Expected | | | Pass | | |
| 2 | Enter Name, Address, Email and Phone of User | | Credentials are entered in text fields | | As Expected | | | Pass | | |
| 3 | Click Submit with invalid data inputted | | Error message displays on screen telling user to enter correct data | | As Expected | | | Pass | | |
| 6 | Click Submit with valid data inputted | | Confirmation message displays, telling the user that the user has been added to database | | As Expected | | | Pass | | |

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| **Test Case ID** | | TEST\_005 | **Test Case Description** | | Test Remove Users | | | | | |
| **Created By** | | Kevin | **Reviewed By** | | Kevin | | **Version** | | 1.0 | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Kevin | **Date Tested** | | 28-Apr-2022 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Access to Application | | |  | 1 | Name = “John Flynn” | | | | |
| 2 | Login to Application | | |  | 2 | Address = “Johnstown, Enfield, County Meath” | | | | |
| 3 |  | | |  | 3 | Email = “johnflynn@gmail.com” | | | | |
| 4 |  | | |  | 4 | Phone = “0831790684” | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Scenario** | Verify user has been removed from ‘Remove a User’ page | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Click “Add User” button from Home Page | | Application should send user to this page without errors | | As Expected | | | Pass | | |
| 2 | Enter Name, Address, Email and Phone of User | | Credentials are entered in text fields | | As Expected | | | Pass | | |
| 3 | Click Submit with invalid data inputted (i.e. User does not exist in the database) | | Error message displays on screen telling user to enter correct data | | As Expected | | | Pass | | |
| 4 | Click Submit with valid data inputted | | Confirmation message displays, telling the user that the user has been added to database | | As Expected | | | Pass | | |

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| **Test Case ID** | | TEST\_006 | **Test Case Description** | | Test Issue Books | | | | | | | | |
| **Created By** | | Carl | **Reviewed By** | | Carl | **Version** | | | | 1.0 | | | |
|  |  |  |  |  |  |  |  | |  | |  | |  |
| **Tester's Name** | | Carl | **Date Tested** | | 28-Apr-2022 | **Test Case (Pass/Fail/Not Executed)** | | | | Pass | | | |
|  |  |  |  |  |  |  |  | |  | |  | |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | | | | |
| 1 | Issue book to user in library | | |  | 1 | Book Title = “Test” | | | | | | | |
| 2 |  | | |  | 2 | Book Authour = “Test” | | | | | | | |
| 3 |  | | |  | 3 | Book Publisher = “Test” | | | | | | | |
| 4 |  | | |  | 4 | Book Genre = “Test” | | | | | | | |
|  |  |  |  |  | 5 | Book Price = "$1" | | | | | | | |
|  |  |  |  |  | 6 | User Name = “Test” | | | | | | | |
|  |  |  |  |  | 7 | User Address = “Test” | | | | | | | |
|  |  |  |  |  | 8 | User Email = “Test” | | | | | | | |
|  |  |  |  |  | 9 | User Phone = “Test” | | | | | | | |
|  |  |  |  |  | 10 | Book Stock = "1" | | | | | | | |
|  |  |  |  |  |  |  |  | |  | |  | |  |
| **Test Scenario** | Verify issuing book on entering valid information for the user and book | | | | |  | |  | |  | |  | |
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| **Step #** | **Step Details** |  | **Expected Results** |  | **Actual Results** |  |  | | **Pass / Fail / Not executed / Suspended** | |  | |  |
| 1 | Navigate to Issue Books |  | Application should direct user without isssues |  | As Expected |  |  | | Pass | |  | |  |
| 2 | Enter book and user details |  | Information for user and book entered in text field |  | As Expected |  |  | | Pass | |  | |  |
| 3 | buy/rent |  | Information for buy or rent clicked |  | As Expected |  |  | | Pass | |  | |  |
| 4 | Click Submit |  | book assigned to user in issued book table |  | As Expected |  |  | | Pass | |  | |  |

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| **Test Case ID** | | TEST\_007 | **Test Case Description** | | Test Return Books | | | | | |
| **Created By** | | Carl | **Reviewed By** | | Carl | | **Version** | | 1.0 | |
|  |  |  |  |  |  |  |  |  |  |  |
| **Tester's Name** | | Carl | **Date Tested** | | 28-Apr-2022 | | **Test Case (Pass/Fail/Not Executed)** | | Pass | |
|  |  |  |  |  |  |  |  |  |  |  |
| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Return book to user in library | | |  | 1 | Book Title = “Test” | | | | |
| 2 |  | | |  | 2 | Book Authour = “Test” | | | | |
| 3 |  | | |  | 3 | Book Publisher = “Test” | | | | |
| 4 |  | | |  | 3 | Book Genre = “Test” | | | | |
|  |  |  |  |  | 5 | Book Price = "$1" | | | | |
|  |  |  |  |  | 6 | User Name = “Test” | | | | |
|  |  |  |  |  | 7 | User Email = “Test” | | | | |
|  |  |  |  |  | 8 | Number of books to return = “1” | | | | |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Test Scenario** | Verify issuing book on entering valid information for the user and book | | | | | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| **Step #** | **Step Details** |  | **Expected Results** |  | **Actual Results** |  |  | **Pass / Fail / Not executed / Suspended** |  |  |
| 1 | Navigate to Return Books |  | Application should direct user without issues |  | As Expected |  |  | Pass |  |  |
| 2 | Enter book and user details |  | Information for user and book entered in text field |  | As Expected |  |  | Pass |  |  |
| 3 | buy/rent |  | Information for buy or rent clicked |  | As Expected |  |  | Pass |  |  |
| 4 | Click Submit |  | book returned to books table and taken specified amount away from issued books table |  | As Expected |  |  | Pass |  |  |