Test Cases

**Group:26**

# Black-Box Test Cases

These test cases are defined based on the available documentation and execution of the program. The code was not inspected.

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| # | **Test case  (very brief description)** | **Preconditions (any required setup)** | **Test steps (steps executed during testing)** | **Expectation** | **Observation**  **(“pass” or failure description) (Group 20)** | **Fix bugs and polish the software**  **(Group 26)** |
| 1 | Clicking on student and then trying to create student | Having a user to login with a validated session | Click on login with credentials Go to Student menu from the home menu  Try filling all the fields from the student form and submit | The user or the student data should be saved | The expected function doesn’t work, instead it would only empty the text fields on button click | Text fields are no longer empty |
| 2 | Clicking on newbook and trying to create newbook | Having a user to login with a validated session | Click on login with credentials Go to new book menu from the home menu  Try filling all the fields from the new book form and submit | The user or the new book data should be saved | The expected function doesn’t work, the price field is not handling alphanumeric characters and not saving the details of newbook | New Book being created |
| 3 | Clicking on Statistics and trying to create Statistics | Having a user to login with a validated session | Click on login with credentials Go to statistics menu from the home menu  Try viewing the statistic details of book | The book details or statistics should be viewed and uneditable | The expected function doesn’t work, while viewing the statistic book details it allows the user to edit the fields. | User can no longer edit the fields |
| 4 | Clicking on Issue book and then trying to issue book with and due date | Having a user to login with a validated session | Click on login with credentials Go to issue book menu from the home menu  Try filling all the fields from the issue book form and submit | The user or the due date and issue date data should be displayed | The expected function doesn’t work, instead it would only empty the text fields on button click | No longer empty.  Issue date& time generated with due date 15 days from time of issue |
| 5 | Clicking on return book and trying to return the book | Having a user to login with a validated session | Click on login with credentials Go to return book menu from the home menu | The user or the book is allowed to return | The expected function doesn’t work, instead it would only empty the text fields on button click | Field no longer empty |
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# White-Box Test Cases

These additional test cases were defined during inspection of the code.

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| # | **Test case  (very brief description)** | **Preconditions (any required setup)** | **Test steps (steps executed during testing)** | **Expectation** | **Observation**  **(“pass” or failure description) (Group 20)** | **Fix bugs and polish the software**  **(Group 26)** |
| 1 | Checking if login works as per the credentials and disallows other credentials | The application should run and allows user to input credentials | Running the application  Entering the credentials  User should be able to login | The user should be able to login and invalid credentials should be avoided | Passed with validated credentials, and doesn’t work for invalid credentials | Pass. No changes required |
| 2 | Checking if student menu works fine | Having a user to login with a validated session | Running the application  Entering the credentials  User should be able to login  Clicking on the form of student and filling the values | User should be saved | Failed and the text field gets empty from the function instead of submission. | Modified to fulfil requirements. Works fine now |
| 3 | Checking if book menu works fine | Having a user to login with a validated session | Running the application  Entering the credentials  User should be able to login  Clicking on the form of book menu and filling the values | Book should be saved | Failed and the text field gets empty from the function instead of submission. | Modified to fulfil requirements. Works fine now |
| 4 | Checking if the data is retrieved from the csv | Having a user to login with a validated session | Running the application  Entering the credentials  User should be able to login  Clicking on the form of statistics menu | Data should be retrieved | Passed with getting values from the csv | \*\*ToDo |
| 5 | Checking if the user is able to logout | Having a user to login with a validated session | Running the application  Entering the credentials  User should be able to login  Clicking on the logout button | User should be able to logout | Passed with user being able to logout | Pass. No changes required |
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