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**ITC515: Professional Programming Practice**

**Term 2, 2020**

**Assessment 4 – Debugging: Replication (Bug2)**

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## Scenario Description

* System check already Borrow Book not Borrow again with valid unrestricted Borrower
* Display the Proper calculation fines
* Fines Per day is $1.00 if user delay two days returning the book display Fines $2.00

## Version Control

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date | Author | Description |
| 0.1 | 16/10/2020 | Sonal | Initial Draft |
| 1.0 | 23/10/2020 | Sonal | Initial Version |

## Test Scripts

The following scripts will cover this scenario:

* calculate fines with overdue loan - success

## Test Components/Requirements

This test scenario covers the following high-level test requirements (see scripts below for specific requirements covered by each test script):

* Patron Can Borrow book without help of librarian
* Available Book can Borrow the book

## Script #1.1 calculate fines with overdue loan – success

### Script Description

* Swipe card of an unrestricted borrower, and attempt to borrow an available book
* Swipe card again to confirm the loan appears
* Find the bug of calculation of fine

### Testing Requirements

This test script covers the following specific testing requirements:

* Already added Book data and Patron data and Available Book Can be Scanned
* In Calendar add two day for due date testing

### Setup

* Patron have Valid Card
* This book Have not borrowed book with another member.
* After Add three more day in calendar
* Return the book properly

### Teardown

* Book is added to Patron Borrow Book List
* Book status is Changed
* Display fines in Patron List

### Script Steps

| **Step #** | **Test Action** | **Expected Results** | **Test Data** | **Pass/ Fail** |
| --- | --- | --- | --- | --- |
| 1 | Run the Program | See The list Already Book and Patron data List |  | P |
| 2 | Enter Choice for Borrow Book | Ask for Patron Swipe Card | L | P |
| 3 | Enter Patron Id | Ask for Scan Book | 1 | P |
| 4 | Scan Book (Enter Book Id) | See the Book Detail |  | P |
| 5 | Enter Enter key | See Final Borrow Book List | enter | P |
| 6 | Enter confirmation of Borrow Book | Display Borrow Book slip | Y | P |
| 7 | Enter for Exit | Display Main Menu | E | P |
| 9 | Enter choice for Loan List | Added this Book of Patron:1 Loan List | LL | P |
| 10 | Enter choice for increment day and enter days | Display current date as after three date | T,4 | P |
| 11 | Enter choice for list patrons | See the Patron one has no fines | LM | P |
| 11 | Enter Choice for returning book | Ask for scan book | R | P |
| 12 | Enter Book Id | Retuning complete and display $2.00 fine | 1 | F |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
| 15/10/2020 7:36PM | Sonal | 1 | System Cycle 1 | Failed |

### Test Execution

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date/Time | Tester | Test ID | Test Phase | Status |
| 215/10/2020 7:36PM | Sonal | 1 | System Cycle 1 | Failed |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Data Table** | | | | | |
|  | **1** | **2** | **3** | **4** | **5** |
| Book | 1 |  |  |  |  |
| Patron | 1 |  |  |  |  |

# Screenshot

: for Finding Bug of Incorrect calculation of incorrect bug:

**First Step: run the Programme**

Graphical user interface, text, application

Description automatically generated

**Step 2: Add Patron and Book data**

**A picture containing text

Description automatically generated**

**Step4: Borrow Book:**

Graphical user interface, application

Description automatically generated

**Step5: take out loan of Book1: patron1**

Graphical user interface, text, application

Description automatically generated

**Step 6: Set current as after four day**

Graphical user interface, application

Description automatically generated

**Step 8: Return the book and display the fine but display half fine value finds out bug**

A picture containing graphical user interface

Description automatically generated