

## **Incomplete** Testplan for library system

This is the test plan you must attempt for assignment 3, that is, in the context of using Selenium. (Please email me **urgently** any errors you find.)

### 1. Test **unsuccessful** paths of use cases

Modify the system so that 'error' messages are logged to a file named 'errors.txt'

If you cannot get a test to behave correctly, comment it out of the testplan and have the log file state explicitly that Txx does not work.

### **Set max loan limit to 2 per user**

#### Ti1 Add User

Create user u1

Attempt to create u1 again

#### Ti2 Add Item

Attempt to create a copy to a non-existent title

#### Ti3 Add Title

Create title t1

Attempt to create t1 again

#### Ti4 Borrow

Create users u1, u2

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u2 request copy1 of t1

#### Ti5 Borrow

Create users u1, u2

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u1 renew copy1 of t1 within deadline

Have user u2 request copy1 of t1

#### Ti6 Borrow

Create users u1, u2

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u1 return copy1 of t1 within deadline

Have user u2 borrow copy1 of t1

Have user u1 request copy1 of t1

#### Ti7 Borrow

Create user u1

Create titles t1, t2, t3

Create copy1 of t1, copy1 of t2 and copy1 of t3

Have user u1 borrow copy1 of t1

Have user u1 borrow copy1 of t2

Have user u1 request copy1 of t3

#### Ti8 Borrow

Create user u1

Create titles t1, t2, t3

Create copy1 of t1, copy1 and copy2 of t2 and copy1 of t3

Have user u1 borrow copy1 of t1

Have user u1 borrow copy1 of t2

User u1 returns copy1 of t2

Have user u1 borrow copy1 of t3

Have user u1 request copy2 of t2

#### Ti9 Remove Item

Create title t1

Create copy1 of t1

Attempt to remove a copy2 of t1

#### Ti10 Remove Item

Create user u1

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Attempt to remove copy1 of t1

#### Ti11 Remove title

Create user u1

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u1 renew copy1 of t1 within deadline (ie no fees)

Attempt to remove a copy1 of t1

#### Ti12 Remove title

Create title t1

Create copy1 of t1

Attempt to remove t1

Ti13 Remove title  
Create user u1  
Create title t1  
Create copy1 of t1  
Have user u1 borrow copy1 of t1  
Attempt to remove t1

Ti14 Remove User  
Attempt to remove u1 (ie without having created it)

Ti15 Renew Loan  
Create user u1  
Create title t1  
Create copy1 of t1  
Have user u1 borrow copy1 of t1  
Have user u1 return copy1 of t1 within deadline (ie with no fees)  
Attempt to have u1 renew copy1 of t1

## 2. Test **successful** paths of use cases

Modify the system so that transactions to the DB (ie creations, deletions, loans) are logged to a file named 'log.txt'

Tv1 Add User  
Create user u1

Tv2 Add User  
Create user u1  
Remove u1  
Create user u1 again

Tv3 Add Title  
Create title t1

Tv4 Add Title  
Create title t1  
Remove t1  
Create title t1

Tv5 Add Item  
Create title t1  
Create copy1 of t1

Tv6 Add Item  
Create title t1  
Create copies 1, 2 and 3 of t1

#### Tv7 Add Item

Create title t1

Create copies 1, 2 and 3 of t1

Remove copy2 of t1

Create copies 2 and 4 of t1

#### Tv8 Borrow

Create users u1, u2

Create titles t1, t2

Create copies 1, 2 and 3 of t1

Create copies 1, 2 and 3 of t2

Have user u1 borrow copy1 of t1, copy3 of t2

Have user u2 borrow copy2 of t1, copy2 of t2

#### Tv9 Remove Item

Create titles t1, t2

Create copies 1, 2 and 3 of t1

Create copies 1, 2 and 3 of t2

Remove copy2 of t1

Remove copies 1 and 3 of t2

#### Tv10 Remove title

Create title t1

Remove t1

#### Tv11 Remove title

Create user u1

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u1 return copy1 of t1 within the deadline

Remove t1

#### Tv12 Remove User

Create user u1

Remove u1

#### Tv13 Renew Loan

Create user u1

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u1 renew copy1 of t1 within the deadline

#### Tv14 Renew Loan

Create user u1

Create title t1

Create copy1 of t1

Have user u1 borrow copy1 of t1

Have user u1 renew copy1 of t1 within the deadline (resetting the deadline)

Renew copy1 (within the deadline) two other times

Have user u1 return copy1 of t1

#### Tv15 Borrow

Create users u1, u2

Create titles t1, t2

Create copies 1, 2 and 3 of t1

Create copies 1, 2 and 3 of t2

Have user u1 borrow copy1 of t1, copy3 of t2

Have user u2 borrow copy2 of t1, copy2 of t2

Have user u1 return copy1 of t1, copy3 of t2 (within deadline)

Have user u2 return copy2 of t1 and copy2 of t2 (within deadline)

Have user u2 borrow copy1 of t1, copy3 of t2

We are NOT exercising the collection of fines and the withdrawal of privileges.