Test Plan

CS 4321 - Software Engineering 1

Group 2

Group Member Names

Date

[You will use the category partition method to generate test specs for as many features as you can. Use the format below. This document will be stored in GitHub in a folder named *testing* stored just off the root]

1. **Feature:** PlaceHolds

PlaceHolds (Book, Member)

1. Book
2. Status
3. Available
4. On Hold [error][property onHold]
5. checkedOut [property checkedOut]
6. Invalid [error]
7. Member
8. Status
9. Good Standing
10. Suspended general [single]
11. Invalid [error]
    1. **Input File for TSL Program**

# Book

Book Status:

Available.

On Hold. [error][property onHold]

Checked Out. [property checkedOut]

Invalid. [error]

# Member

Member Status:

Good Standing.

Suspended General. [single]

Invalid [error]

* 1. **Test Specifications from TSL Program**

Test Case 1 <error>

Book Status : On Hold

Test Case 2 <error>

Book Status : Invalid

Test Case 3 <single>

Member Status : Suspended General

Test Case 4 (Key = 1.1.)

Book Status : Available

Member Status : Good Standing

Test Case 5 (Key = 3.1.)

Book Status : Checked Out

Member Status : Good Standing

1. **Feature: Search For Books**

Search(Search Terms, BookDetails)

1. Search Terms

a. Length

i. 0

ii. More than 0

b. Content

i. Only Alphanumeric

ii. Special and Alphanumeric

iii. Only Special

c. Search type

i. Title

ii. Author

iii. Year

2. BookDetail

a. Matches

i. Has Matching Books

ii. No Matching Books

* 1. **Input File for TSL Program**

# Search Terms

Length:

0. [property empty]

More than 0.

Content:

Only Alphanumeric. [if !empty]

Alphanumeric and Special. [if !empty]

Only Special [if !empty]

Search Type:

Title.

Author.

Year.

# BookDetail

Matches:

Has Matching Books.

No Matching Books. [if !empty]

* 1. **Test Specifications from TSL Program**

Test Case 1 (Key = 1.0.1.1.)

Length : 0

Content : <n/a>

Search Type : Title

Matches : Has Matching Books

Test Case 2 (Key = 1.0.2.1.)

Length : 0

Content : <n/a>

Search Type : Author

Matches : Has Matching Books

Test Case 3 (Key = 1.0.3.1.)

Length : 0

Content : <n/a>

Search Type : Year

Matches : Has Matching Books

Test Case 4 (Key = 2.1.1.1.)

Length : More than 0

Content : Only Alphanumeric

Search Type : Title

Matches : Has Matching Books

Test Case 5 (Key = 2.1.1.2.)

Length : More than 0

Content : Only Alphanumeric

Search Type : Title

Matches : No Matching Books

Test Case 6 (Key = 2.1.2.1.)

Length : More than 0

Content : Only Alphanumeric

Search Type : Author

Matches : Has Matching Books

Test Case 7 (Key = 2.1.2.2.)

Length : More than 0

Content : Only Alphanumeric

Search Type : Author

Matches : No Matching Books

Test Case 8 (Key = 2.1.3.1.)

Length : More than 0

Content : Only Alphanumeric

Search Type : Year

Matches : Has Matching Books

Test Case 9 (Key = 2.1.3.2.)

Length : More than 0

Content : Only Alphanumeric

Search Type : Year

Matches : No Matching Books

Test Case 10 (Key = 2.2.1.1.)

Length : More than 0

Content : Alphanumeric and Special

Search Type : Title

Matches : Has Matching Books

Test Case 11 (Key = 2.2.1.2.)

Length : More than 0

Content : Alphanumeric and Special

Search Type : Title

Matches : No Matching Books

Test Case 12 (Key = 2.2.2.1.)

Length : More than 0

Content : Alphanumeric and Special

Search Type : Author

Matches : Has Matching Books

Test Case 13 (Key = 2.2.2.2.)

Length : More than 0

Content : Alphanumeric and Special

Search Type : Author

Matches : No Matching Books

Test Case 14 (Key = 2.2.3.1.)

Length : More than 0

Content : Alphanumeric and Special

Search Type : Year

Matches : Has Matching Books

Test Case 15 (Key = 2.2.3.2.)

Length : More than 0

Content : Alphanumeric and Special

Search Type : Year

Matches : No Matching Books

1. **Feature:** RenewBook

RenewBook(Book, Member)

1. Book

a. Status

i. Available

ii. On Hold

iii. Invalid [error]

b. Times Renewed

i. Less Than 3

ii. Two Or more [error]

2. Member

a. Status

i. Good Standing

ii. Suspended [single]

iii. Invalid [error]

b. Book Possession

i. Has Book Checked Out

ii. Does Not Have Book [Error]

* 1. **Input File for TSL Program**

# Book

Book Status:

Available.

On Hold.

Invalid. [error]

Times Renewed:

Less Than 2.

2 Or More. [error]

# Member

Member Status:

Good Standing.

Suspended. [single]

Invalid. [error]

Book Posession:

Has Book.

Does Not Have Book. [error]

* 1. **Test Specifications from TSL Program**

Test Case 1 <error>

Book Status : Invalid

Test Case 2 <error>

Times Renewed : 2 Or More

Test Case 3 <single>

Member Status : Suspended

Test Case 4 <error>

Member Status : Invalid

Test Case 5 <error>

Book Posession : Does Not Have Book

Test Case 6 (Key = 1.1.1.1.)

Book Status : Available

Times Renewed : Less Than 2

Member Status : Good Standing

Book Posession : Has Book

Test Case 7 (Key = 2.1.1.1.)

Book Status : On Hold

Times Renewed : Less Than 2

Member Status : Good Standing

Book Posession : Has Book