Test Plan

CS 4321 - Software Engineering 1  
Group 1



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[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: Login**
   1. **Input File for TSL Program**

# User

Role:

Member.

Associate.

Manager.

# Username

Username Validity:

Valid.

Invalid. [error]

# Passcode

Passcode Validity:

Valid.

Invalid. [error]

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

Test Case 1 <error>

Username Validity : Invalid

Test Case 2 <error>

Passcode Validity : Invalid

Test Case 3 (Key = 1.1.1.)

Role : Member

Username Validity : Valid

Passcode Validity : Valid

Test Case 4 (Key = 2.1.1.)

Role : Associate

Username Validity : Valid

Passcode Validity : Valid

Test Case 5 (Key = 3.1.1.)

Role : Manager

Username Validity : Valid

Passcode Validity : Valid

* 1. **Feature: SuspendMember**

# Member

Status:

Good Standing.

Suspended. [single]

# Username

Validity:

Valid.

Invalid. [error]

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

Test Case 1 <single>

Status : Suspended

Test Case 2 <error>

Validity : Invalid

Test Case 3 (Key = 1.1.)

Status : Good Standing

Validity : Valid

* 1. **Feature: PayFines**

# Fines

Fine Amount:

0. [single]

=<25.

>25. [property suspended]

# Payment

Payment Amount:

0. [error]

<5.

>=5. [if suspended]

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

Test Case 1 <single>

Fine Amount : 0

Test Case 2 <error>

Payment Amount : 0

Test Case 3 (Key = 2.2.)

Fine Amount : =<25

Payment Amount : <5

Test Case 4 (Key = 3.2.)

Fine Amount : >25

Payment Amount : <5

Test Case 5 (Key = 3.3.)

Fine Amount : >25

Payment Amount : >=5

* 1. **Feature: SearchBook**

# Book

Search Criteria:

By Author.

By Title.

By Keywords.

By ISBN.

By Date.

Search String:

Empty. [single]

Entire.

Partial.

Match:

No Match. [single]

Match.

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

Test Case 1 <single>

Search String : Empty

Test Case 2 <single>

Match : No Match

Test Case 3 (Key = 1.2.2.)

Search Criteria : By Author

Search String : Entire

Match : Match

Test Case 4 (Key = 1.3.2.)

Search Criteria : By Author

Search String : Partial

Match : Match

Test Case 5 (Key = 2.2.2.)

Search Criteria : By Title

Search String : Entire

Match : Match

Test Case 6 (Key = 2.3.2.)

Search Criteria : By Title

Search String : Partial

Match : Match

Test Case 7 (Key = 3.2.2.)

Search Criteria : By Keywords

Search String : Entire

Match : Match

Test Case 8 (Key = 3.3.2.)

Search Criteria : By Keywords

Search String : Partial

Match : Match

Test Case 9 (Key = 4.2.2.)

Search Criteria : By ISBN

Search String : Entire

Match : Match

Test Case 10 (Key = 4.3.2.)

Search Criteria : By ISBN

Search String : Partial

Match : Match

Test Case 11 (Key = 5.2.2.)

Search Criteria : By Date

Search String : Entire

Match : Match

Test Case 12 (Key = 5.3.2.)

Search Criteria : By Date

Search String : Partial

Match : Match

* 1. **Feature: Hold Book**

# Member

Member Status:

Good Standing.

Suspended. [single]

# Book

Validity:

Valid.

Invalid. [error]

Hold Status:

Held. [single]

Not Held.

Checked Out Status:

Checked Out.

Not Checked Out. [single]

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

Test Case 1 <error>

Validity : Invalid

Test Case 2 <single>

Hold Status : Held

Test Case 3 (Key = 1.1.2.1.1.)

Member Status : Good Standing

Validity : Valid

Hold Status : Not Held

Checked Out Status : Checked Out

ReleaseDate : This year or past year

Test Case 4 (Key = 1.1.2.1.2.)

Member Status : Good Standing

Validity : Valid

Hold Status : Not Held

Checked Out Status : Checked Out

ReleaseDate : Before past year

Test Case 5 (Key = 1.1.2.2.1.)

Member Status : Good Standing

Validity : Valid

Hold Status : Not Held

Checked Out Status : Not Checked Out

ReleaseDate : This year or past year

Test Case 6 (Key = 1.1.2.2.2.)

Member Status : Good Standing

Validity : Valid

Hold Status : Not Held

Checked Out Status : Not Checked Out

ReleaseDate : Before past year

Test Case 7 (Key = 2.1.2.1.1.)

Member Status : Suspended

Validity : Valid

Hold Status : Not Held

Checked Out Status : Checked Out

ReleaseDate : This year or past year

Test Case 8 (Key = 2.1.2.1.2.)

Member Status : Suspended

Validity : Valid

Hold Status : Not Held

Checked Out Status : Checked Out

ReleaseDate : Before past year

Test Case 9 (Key = 2.1.2.2.1.)

Member Status : Suspended

Validity : Valid

Hold Status : Not Held

Checked Out Status : Not Checked Out

ReleaseDate : This year or past year

Test Case 10 (Key = 2.1.2.2.2.)

Member Status : Suspended

Validity : Valid

Hold Status : Not Held

Checked Out Status : Not Checked Out

ReleaseDate : Before past year

* 1. **Feature: Renew Book**

# Member

Member Status:

Good Standing.

Suspended. [single]

# Book

Validity:

Valid.

Invalid. [error]

Hold Status:

Held. [single]

Not Held.

Release Date:

This year or past year.

Before past year.

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

Test Case 1 <single>

Member Status : Suspended

Test Case 2 <error>

Validity : Invalid

Test Case 3 <single>

Hold Status : Held

Test Case 4 <single>

Number of times renewed by same person : 2

Test Case 5 (Key = 1.1.2.1.1.)

Member Status : Good Standing

Validity : Valid

Hold Status : Not Held

Release Date : This year or past year

Number of times renewed by same person : <= 1

Test Case 6 (Key = 1.1.2.2.1.)

Member Status : Good Standing

Validity : Valid

Hold Status : Not Held

Release Date : Before past year

Number of times renewed by same person : <= 1