

Test Plan

CS 4321 - Software Engineering 1



Group Name 3

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11/8/17

[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: Search for Book

choice()

1. UserInput
 - a. Status
 - i. Valid
 - ii. Invalid [error]

ISBNInput()

1. String Content
 - a. Choices
 - i. Letters [error]
 - ii. Spaces [error]
 - iii. Special Characters [error]
 - iv. Numbers
 - v. Negative Numbers [error]
 - vi. Blanks [error]

KeywordInput()

1. String Content
 - a. Choices
 - i. Letters
 - ii. Letters w/ Spaces

- iii. Special Characters [error]
- iv. Numbers
- v. Negative Numbers [error]
- vi. Blanks [error]

1.1 Input File for TSL Program

#choice

UserInput Status:

Valid.

Invalid. [error]

ISBNInput

String Content:

Choices:

Letters. [error]

Spaces. [error]

Special Characters. [error]

Numbers.

Negative Numbers. [error]

Blanks. [error]

KeywordInput

String Content:

Choices:

Letters.

Letters w/ Spaces.

Special Characters. [error]

Numbers.

Negative Numbers. [error]

Blanks. [error]

1.2 Test Specifications from TSL Program

Test Case 1 <error>

UserInput Status : Invalid

Test Case 2 (Key = 1.)

UserInput Status : Valid

Test Case 1 <error>

Choices : Letters

Test Case 2 <error>
Choices : Spaces

Test Case 3 <error>
Choices : Special Characters

Test Case 4 <error>
Choices : Negative Numbers

Test Case 5 <error>
Choices : Blanks

Test Case 6 (Key = 4.)
Choices : Numbers

Test Case 1 <error>
Choices : Special Characters

Test Case 2 <error>
Choices : Negative Numbers

Test Case 3 <error>
Choices : Blanks

Test Case 4 (Key = 1.)
Choices : Letters

Test Case 5 (Key = 2.)
Choices : Letters w/ Spaces

Test Case 6 (Key = 4.)
Choices : Numbers

2. Feature: getCheckbookAvailable

getCheckbookAvailable()

1. ISBN
 - a. isbn Status:
 - i. Available.
2. TableName
 - a. TableName Status:
 - i. Valid.
 - ii. Invalid. [error]
3. TableId
 - a. TableId Status:
 - i. Valid. [property bt.checkBookExists]
 - ii. Invalid. [error]
 - b. Inventory Exists:
 - i. Available. [if bt.checkBookExists]
 - ii. Not Available. [if !bt.checkBookExists]
4. TableISBN
 - a. TableISBN Status:
 - i. Valid.
 - ii. Invalid. [error]
5. TablePin
 - a. TablePin Status:
 - i. Valid. [property NULL]
 - ii. Invalid. [error]
 - b. Availability:
 - i. Available. [if NULL]
 - ii. Not Available. [if !NULL]

2.1 Input File for TSL Program

```
# isbn
  isbn Status:
  Available.
# tablenm
  tablenm Status:
  Valid.
  Invalid.      [error]
# tableid
  tableid Status:
  Valid.        [property bt.checkBookExists]
  Invalid.      [error]
  Inventory Exists:
  Available.     [if bt.checkBookExists]
  Not Available. [if !bt.checkBookExists]
# tableisbn
  tableisbn Status:
  Valid.
```

Invalid.	[error]
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tablepin

tablepin Status:	
Valid.	[property NULL]
Invalid.	[error]

Availability:

Available.	[if NULL]
Not Available.	[if !NULL]

2.2 Test Specifications from TSL Program

Test Case 1 <error>
tablenm Status : Invalid

Test Case 2 <error>
tableid Status : Invalid

Test Case 3 <error>
tableisbn Status : Invalid

Test Case 4 <error>
tablepin Status : Invalid

Test Case 5 (Key = 1.1.1.1.1.1.1.)
isbn Status : Available
tablenm Status : Valid
tableid Status : Valid
Inventory Exists : Available
tableisbn Status : Valid
tablepin Status : Valid
Availability : Available

3. Feature: CheckOutBook

1. checkbookid
 - a. checkbookid Status:
 - i. Available.
 - ii. On Hold. [property onHold]
 - iii. Invalid. [error]
2. pinnum
 - a. pinnum Status:
 - i. Valid.

- ii. Invalid. [error]
 - b. pinnum Num Books:
 - i. 0-9.
 - ii. 10. [if !onHold]

3.1 Input File for TSL Program

```
# checkbookid
checkbookid Status:
  Available.
  On Hold. [property onHold]
  Invalid. [error]
# pinnum
pinnum Status:
  Valid.
  Invalid. [error]
pinnum Num Books:
  0-9.
  10. [if !onHold]
```

3.2 Test Specifications from TSL Program

Test Case 1 <error>
checkbookid Status : Invalid

Test Case 2 <error>
pinnum Status : Invalid

Test Case 3 (Key = 1.1.1.)
checkbookid Status : Available
pinnum Status : Valid
pinnum Num Books : 0-9

Test Case 4 (Key = 1.1.2.)
checkbookid Status : Available
pinnum Status : Valid
pinnum Num Books : 10

Test Case 5 (Key = 2.1.1.)
checkbookid Status : On Hold
pinnum Status : Valid
pinnum Num Books : 0-9

4. Feature: CheckUserPassword

checkUserPassword(user, pass)

1. user
 - a. user Status:
 - i. Valid.
 - ii. Invalid. [error]
2. pass
 - a. pass Status
 - i. Valid.
 - ii. Invalid. [error]
 - b. Num Characters:
 - i. 0. [error]
 - ii. 1-6. [error]
 - iii. 7.
 - iv. >7. [error]
 - c. Character Values:
 - i. special characters. [error]
 - ii. all capitals.
 - iii. all lowercase.
 - iv. all numbers.
 - v. capitals, lowercase, numbers.
 - vi. spaces. [error]

4.1 Input File for TSL Program

```
# user
user Status:
    Valid.
    Invalid. [error]
# pass
pass Status:
    Valid.
    Invalid. [error]
Num Characters:
    0. [error]
    1-6. [error]
    7.
    >7. [error]
Character Values:
    special characters. [error]
    all capitals.
    all lowercase.
    all numbers.
    capitals, lowercase, numbers.
    spaces. [error]
```

4.2 Test Specifications from TSL Program

Test Case 1 <error>
 user Status : Invalid

Test Case 2 <error>
 pass Status : Invalid

Test Case 3 <error>
 Num Characters : 0

Test Case 4 <error>
 Num Characters : 1-6

Test Case 5 <error>
 Num Characters : >7

Test Case 6 <error>
 Character Values : special characters

Test Case 7 <error>
 Character Values : spaces

Test Case 8 (Key = 1.1.3.2.)
 user Status : Valid
 pass Status : Valid
 Num Characters : 7
 Character Values : all capitals

Test Case 9 (Key = 1.1.3.3.)
 user Status : Valid
 pass Status : Valid
 Num Characters : 7
 Character Values : all lowercase

Test Case 10 (Key = 1.1.3.4.)
 user Status : Valid
 pass Status : Valid
 Num Characters : 7
 Character Values : all numbers

Test Case 11 (Key = 1.1.3.5.)
 user Status : Valid
 pass Status : Valid
 Num Characters : 7
 Character Values : capitals, lowercase, numbers