# TEST RESULTS

for

# **Book Shop Automation Software**

Version 1.0 approved

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# 1 White Box Testing

#### 1.1 Unit test results

### 1.1.1 BookDao class - getBookByISBN())

- Input: 2000
- Condition: The returned book's ISBN is actually 2000
- Expected Output: null(No such book in database
- RESULT: PASS

### 1.1.2 BookDao class - addBook())

- $\bullet$  Input: A new book with ISBN 123456
- Condition: Check if the book exists now in the table
- Expected result: YES
- RESULT:PASS

### 1.1.3 BookDao class - getInventoryLevel()

- Input: ISBN=10192
- Expected output: 0
- Output: 0
- RESULT:PASS

### 1.1.4 TransactionDao class - getStatistics()

- Input: Start date is more than end date
- Expected output: No results except default result header
- Output: Only result headers received
- RESULT: PASS

### 1.1.5 NotInCollectionDao class - addRequest()

- Input: A new request for a book: ISBN-12213 ,Book Title -"Agatha",Author name ="ABC",PublisherName="Marvel"
- Expected output: Inserts correctly into database. No exceptions unhandled
- Output: Inserts correctly
- RESULT:PASS

### 1.1.6 VendorDao class - searchVendorByld()

- Input: ISBN=1000
- Expected output: True
- Output: True
- RESULT:PASS

### 1.1.7 NotInCollectionDao class - viewRequests()

- Input: Query for getting requests
- Condition: Is ISBN 123 present?(data validated by database)
- Expected output: Yes
- Output: Yes
- RESULT: PASS

# 2 Black Box testing

## 2.1 Generate receipt feature

#### 2.1.1 Case when no such book exists

Expected output: Error Dialog appears

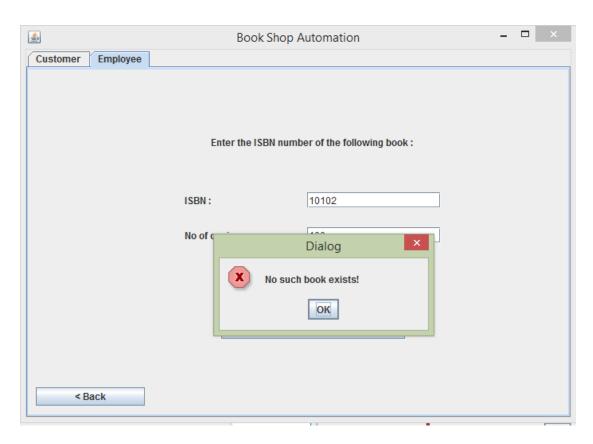


Figure 2.1: Error dialog shown.

### 2.1.2 Case when book does not have enough copies

Expected output: Error Dialog appears

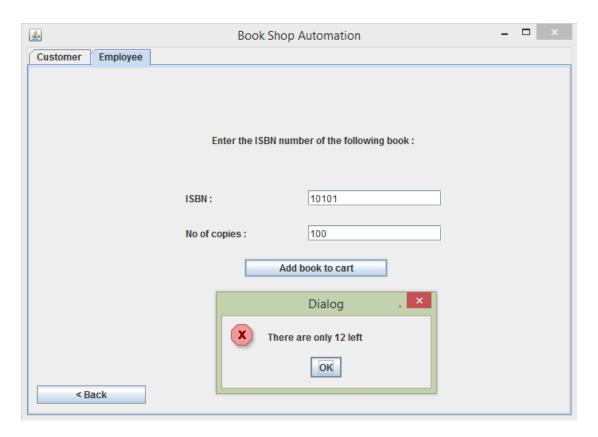


Figure 2.2: Error dialog shown.

### 2.1.3 Case when successful

Expected output:PDF Viewer appears

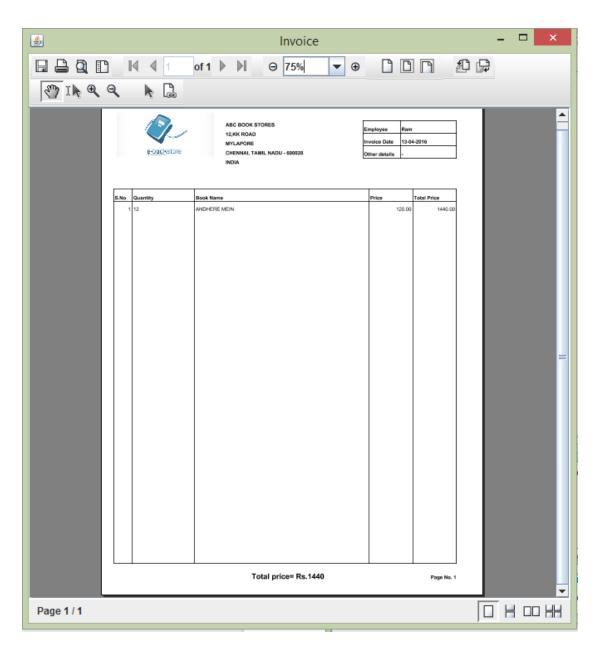


Figure 2.3: Pdf viewer appears.

### 2.2 View statistics

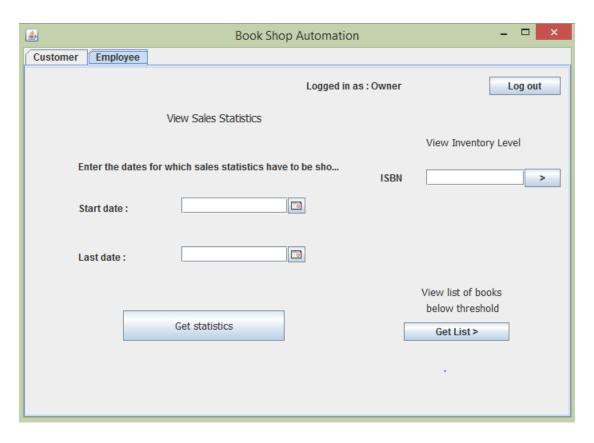


Figure 2.4: Owner panel.

### 2.2.1 Case when incorrect date is entered manually

### Expected output: Error dialog appears

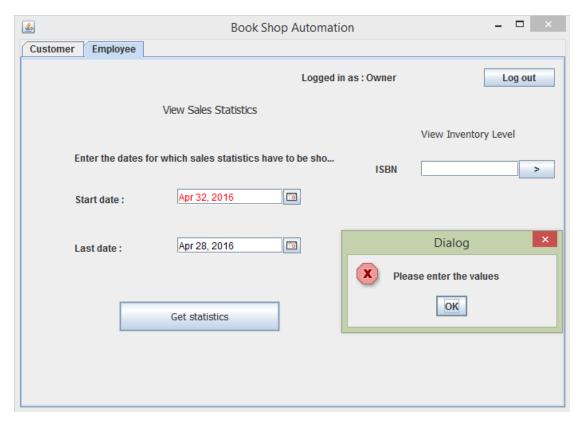


Figure 2.5: Error shown.

### 2.2.2 Case when the query is successful

Expected output: Statistics shown

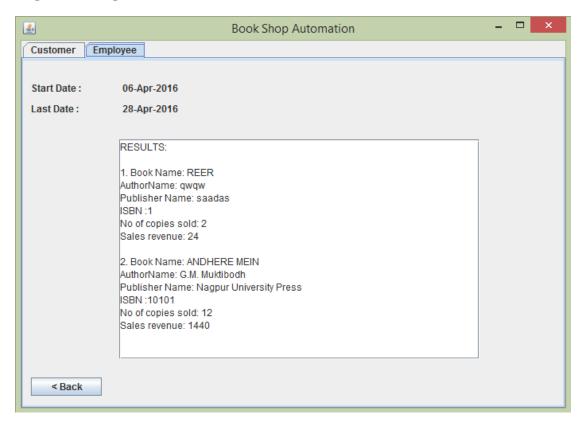


Figure 2.6: Statistics shown.

# 2.3 Update database

### 2.3.1 Case when the book does not exist

Expected output: Error Dialog

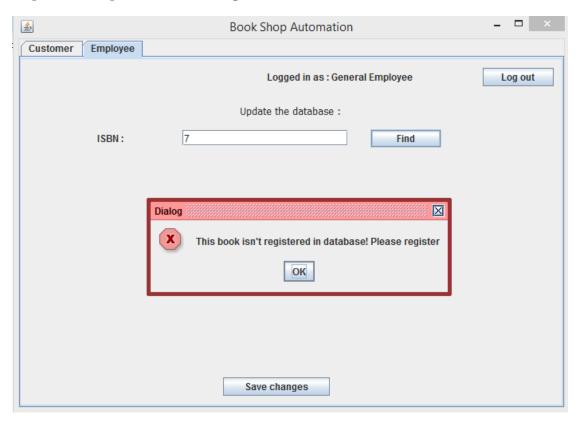


Figure 2.7: Error Dialog Shown.

#### 2.3.2 Case when incorrect details are entered

Case when fields have wrong values.

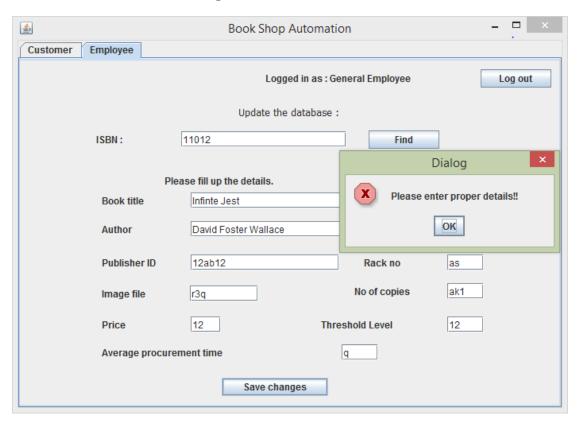


Figure 2.8: Error Dialog Shown.

### 2.3.3 Case when publisher is not registered

Expected output: Publisher not registered dialog pops up

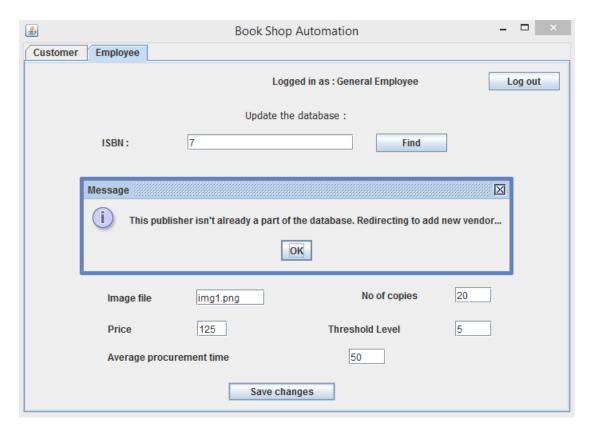


Figure 2.9: Publisher not registered dialog pops up

### 2.3.4 Case when vendor is not registered

Expected output: Vendor not registered dialog pops up

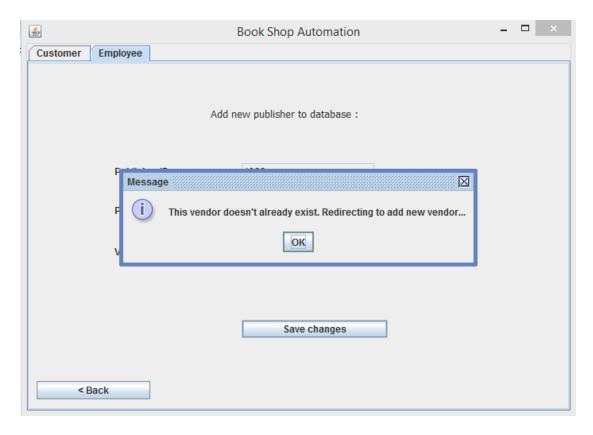


Figure 2.10: Vendor not registered dialog pops up

### 2.3.5 Case when full details aren't entered in the book entry form

Expected output: Error dialog pops up

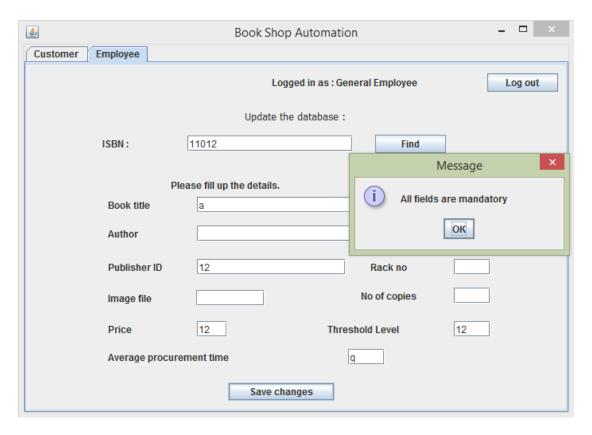


Figure 2.11: Error dialog pops up

### 2.3.6 Case when all form entries are entered successfully

Expected output: Return back to the update database panel

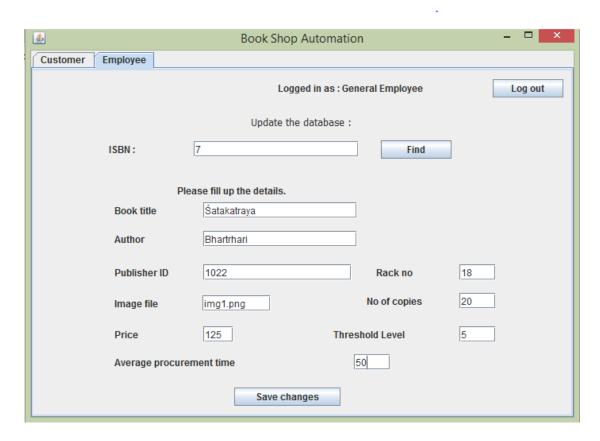


Figure 2.12: Save changes

### 2.3.7 Case when book already exists

Expected output: Show dialog and show no of copies panel

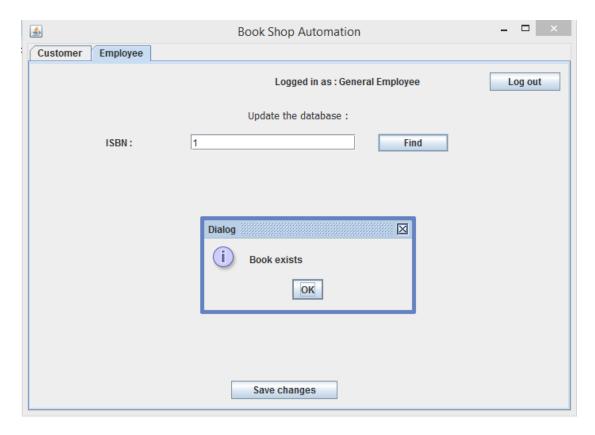


Figure 2.13: Dialog shown

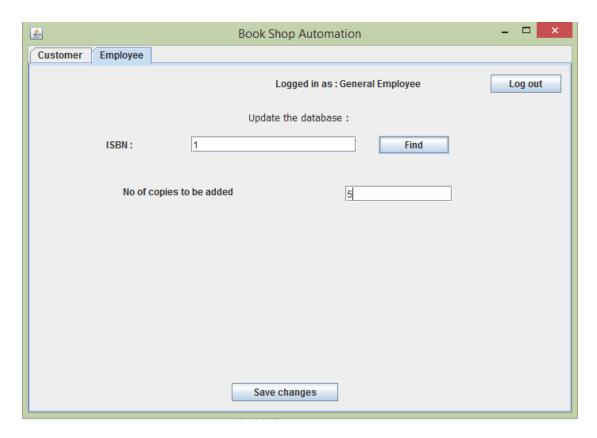


Figure 2.14: No of copies panel shown

## 2.4 View Inventory level

### 2.4.1 Case when successful

Expected output: Show level

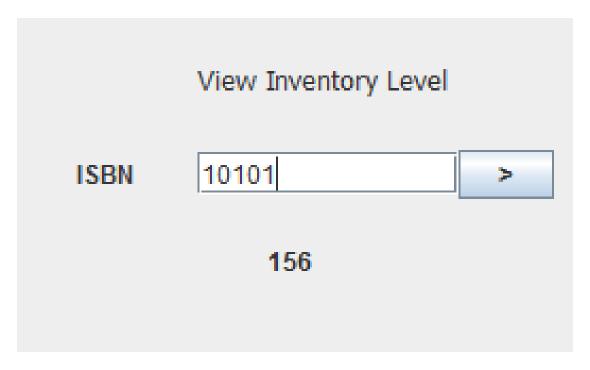


Figure 2.15: Answer shown

## 2.5 Query for book

### 2.5.1 Case when book exists

Expected output: Show the entries

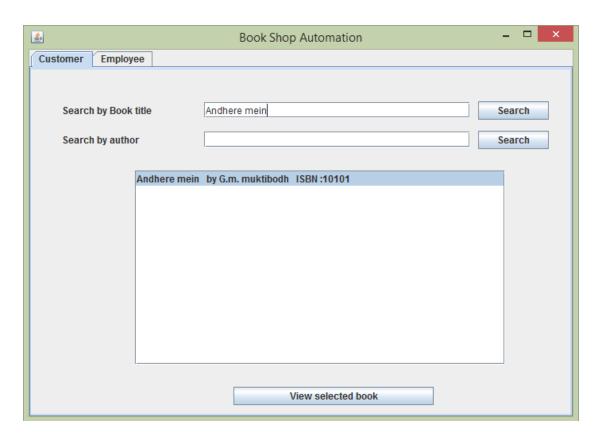


Figure 2.16: Entries populated

#### 2.5.2 Case when book is not in the database

Expected output: Show the procurement form

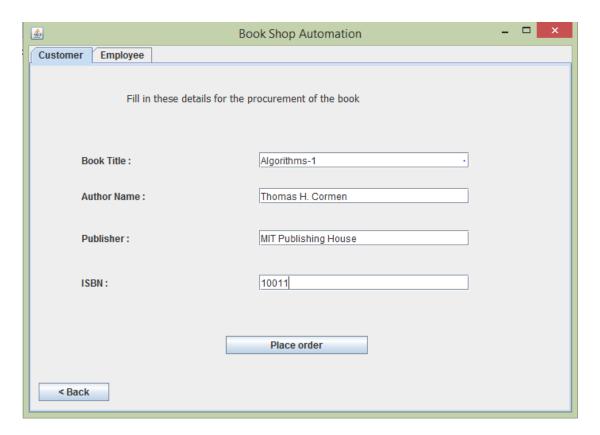


Figure 2.17: Procurement form shown

#### 2.5.3 Case when book is not in stock

Expected output: Show dialog on viewing

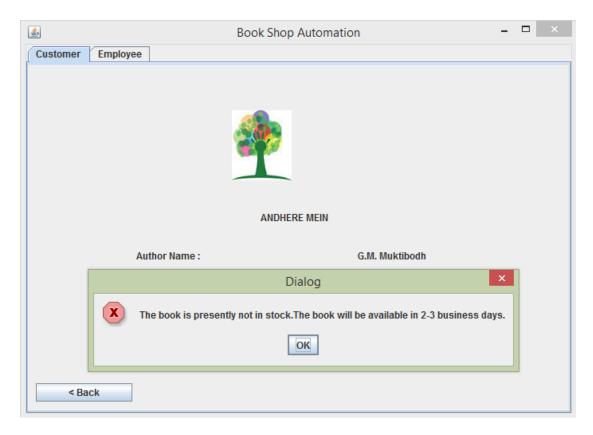


Figure 2.18: Not in stock dialog shown

## 2.6 View Not In Collection requests

Expected output: Show requests

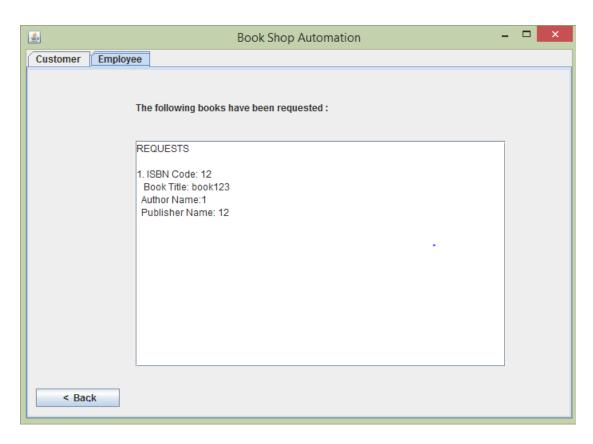


Figure 2.19: Requests shown

# 3 System testing

#### 3.1 Performance Criteria

- Due to the initial loading of the configurations by the Hibernate framework, the system lags a bit but gives competently fast results subsequently.
- Also, the PDF viewer takes up some time to load in certain cases. However, as it is an external PDF viewer, the setting up is expected to take time.

#### 3.2 Function validation

- All major use cases mentioned in the SRS are compared with the functionalities in the software
- Generate Receipt:

Pdf is generated. WORKS AS EXPECTED

• Query for book

Results are shown. WORKS AS EXPECTED

• View Requests

Results are shown. WORKS AS EXPECTED

• View statistics

Results are shown. WORKS AS EXPECTED

• View inventory level

Level is displayed. WORKS AS EXPECTED

• Request for book

Request successfully sent. WORKS AS EXPECTED

• Update database

Both deletion and addition of books(already/not already) present possible.

WORKS AS EXPECTED

• Number of requests updated when not in stock

Requests are appropriately incremented when the customer views the book.

WORKS AS EXPECTED