

Test Plan Report

(Name of the Product)

Books management System

Prepared by:

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1.0 INTRODUCTION

The Books Management System is a system to record the information of books in a store. The books' information is in the form of following attributes : title, author, year of publication and the ISBN number of the book. Book stores require this kind of systems to keep track of books present in the store and retrieve book information easily. User can insert new books, update existing ones, search for them and delete them as well.

2.0 OBJECTIVES AND TASKS

2.1 Objectives of Test Plan

Objective of the test plan is to describe scenarios to be tested and covering corner cases of the application as well.

2.2 Tasks of Test Plan

Sr. No .	#Business Requirements (BR)	#Functional Requirements (FR)	#Test Scenarios (TS)	#Testing Approaches /Strategies (TA)
01	Operations on existing book records	Updation, Searching, Deletion	Update book, Search a book, Delete a book, validation on all fields	Functional Testing (Standard Testing) - Unit Testing - Integration Testing
02	Operations to create new book records	Insertion, View All	Insert a book, View all books, validation on all fields	

3.0 SCOPE

General

Scope of the Test Plan will be testing all the fundamental validation units and modules , and further test the integration of all the CRUD operations on the application.

4.0 TESTING STRATEGY

1. **Functional testing**
2. **Unit testing**
3. **Integration Testing**

Approach	Type of Testing	Manual Testing		Automated Testing on Device	Tools/APIs/Libraries
		Using Device	Using Emulator		
Standard Testing (Functional Testing)	Unit Testing	Yes	No	No	1. Unittest (python unit testing framework)
	Integration Testing	Yes	No	No	

4.1 Unit Testing

MODULE/FUNCTIONALITY NAME:	Insert
UNIT/CLASS:	Database
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRECONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
1	Non numeric year as input	-	insert(title="book",author="author",year="abcd",isbn="isbn0001")	Input should be rejected	Insert return false	Input is rejected	Pass
2	Empty fields in input	-	insert(title="",author="",year="1990",isbn="")	Input should be rejected	Insert returns false	Input is rejected	Pass
3	Floating point value in year field as input	-	insert(title="book",author="author",year="1922.6",isbn="isbn0001")	Input should be rejected	Insert returns false	Input is rejected	Pass
4	Too short title as input	-	insert(title="b",author="author",year="1989",isbn="isbn0001")	Input should be rejected	Insert returns false	Insert return true	Fail
5	Too short author as input	-	insert(title="book",author="a",year="1999",isbn="isbn0001")	Input should be rejected	Insert returns false	Insert returns true	Fail

MODULE/FUNCTIONALITY NAME:	View
UNIT/CLASS:	Database
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRECONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
6	View all the records	Atleast one record present in DB	view()	All records should be extracted	Pre condition should hold true	Records are extracted	Pass

MODULE/FUNCTIONALITY NAME:	Search
UNIT/CLASS:	Database
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRECONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
7	No parameter passed to search	-	Search(“”, “”, “”, “”)	Query should be rejected	Search returns false	Query is rejected and returns false	Pass

4.2 Integration Testing

PROJECT NAME:	Book Management System
MODULE/FUNCTIONALITY:	INSERT
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRE-CONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
8	INSERT a valid book record	-	Title="test", Author="test", year="1990", isbn="ISBN000"	Record is inserted	The record inserted is found using search	Record is inserted	Pass

PROJECT NAME:	Book Management System
MODULE/FUNCTIONALITY:	UPDATE
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRE-CONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
9	UPDATE an existing book record	A valid entry is present in DB	Title="test", Author="test", year="1990", isbn="ISBN000", updatedisbn = "isbn001"	Record is updated	The existing record is updated	Record is updated	Pass

PROJECT NAME:	Book Management System
MODULE/FUNCTIONALITY:	DELETE
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRE-CONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
10	DELETE an existing book record	A valid entry is present in DB	Title="test", Author="test", year="1990", isbn="ISBN000"	Record is deleted	The existing record is deleted	Record is deleted	Pass

PROJECT NAME:	Book Management System
MODULE/FUNCTIONALITY:	SEARCH
CREATED BY:	-
DATE OF CREATION:	-
DATE OF REVIEW:	-

TEST CASE ID	TEST CASE	PRE-CONDITION	TEST DATA	EXPECTED RESULT	POST CONDITION	ACTUAL RESULT	STATUS (PASS/FAIL)
11	SEARCH an existing book record	A valid entry is present in DB	Title="test", Author="test", year="1990", isbn="ISBN000"	Record is extracted	-	Record is extracted	Pass

5.0 HARDWARE REQUIREMENTS

1. 4GB RAM
2. 100MB HDD
3. i5- 8th gen processor

6.0 SOFTWARE REQUIREMENTS

1. Ubuntu 20.04 (focal fossa)
2. Python 3
3. Python tkinter
4. Sqlite DB
5. Python unittest

7.0 FEATURES TO BE TESTED

1. Insertion of records
2. Updation of records
3. Retrieval of records
4. Deletion of records
5. Validation of input

8.0 FEATURES NOT TO BE TESTED

1. GUI of the applications - (GUI testing is not under the scope of this test plan)

9.0 DELIVERABLES

Deliverable	Date / Milestone
Test Plan	-
Test Result Report	-

10.0 TOOLS

1. Python modules - (unittest)

11.0 APPROVALS

Name (In Capital Letters)	Signature	Date
1.		