

ASSESSMENT REPORT

LIBRARY MANAGEMENT SYSTEM

TESTCASES:

1. Test case for adding book

After refactoring code:

```
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_add_book
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.16s =====
PS E:\akan_practices\Incubyte_task\Library_Management_System>
```

2. Test case for already added books:

After refactoring:

```
added\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_already_
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.04s =====
```

3. Test case for adding book with missing values:

After refactoring:

```
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_add_book
_missing_info
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.05s =====
```

4. Test case for adding multiple books:

After refactoring:

```
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_add_mult
iple_books
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====
```

5. Test case for adding multiple unique books:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_add_mult
iple_unique_books
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 3 items

test_library.py ... [100%]

===== 3 passed in 0.04s =====

```

6. Test case for borrowing books:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_borrow_b
ook
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

7. Test case for borrowing book which is not available:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_borrow_b
ook_not_available
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

8. Testcase for borrowing book which is not exist:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_borrow_n
onexistent_book
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

9. Testcase for borrowing book with invalid ISBN:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_borrow_i
nvalid_isbn
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.06s =====

```

10. Test case for borrowing multiple books:

After refactoring:

```

===== 1 passed in 0.00s =====
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_borrow_b
ook_multiple_times
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.04s =====

```

11. Test case for returning a book

After refactoring:

```

===== 1 passed in 0.04s =====
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_return_b
ook
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

12. Testcase for returning a book which is not borrowed:

After refactoring:

```

===== 1 passed in 0.00s =====
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_return_b
ook_not_borrowed
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

13. Test case for returning a non existing book:

After refactoring:

```

===== 1 passed in 0.00s =====
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_return_n
onexistent_book
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

14. Testcase for returning book with invalid ISBN:

After refactoring:

```

===== 1 passed in 0.00s =====
PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_return_i
nvalid_isbn
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

15. Testcase to see book availability is empty:

After refactoring:


```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_availabl
● e_books_empty
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.04s =====

```

16. Testcase to see all available books:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_all_ava
● lable_books
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

17. Testcase to see available book after borrowing:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_view_ava
● ilable_books borrowed
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.02s =====

```

18. Testcase to view available books output:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_view_ava
● ilable_books_output
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```

19. Testcase to borrow and return multiple books:

After refactoring:

```

PS E:\akan_practices\Incubyte_task\Library_Management_System> python -m pytest test_library.py::test_borrow_a
● nd_return_multiple_books
===== test session starts =====
platform win32 -- Python 3.11.5, pytest-8.3.2, pluggy-1.5.0
rootdir: E:\akan_practices\Incubyte_task\Library_Management_System
plugins: anyio-4.0.0
collected 1 item

test_library.py . [100%]

===== 1 passed in 0.03s =====

```