***Test details & explanation***

1.**test\_get\_books**

Test the book number is correct-positive functionality

2.**test\_book\_details**

Test all book details-positive functionality

3.**test\_add\_book**

Test that adding a book is a success

Test it’s title & author-positive functionality

4.**test\_update\_book**

Test updating a book succeeds-positive functionality

Test that the title is updated successfully

5.**test\_update\_non\_exist\_book**

Negative test to see we get 404(resource not found) when book not found

6.**test\_delete\_book**

Test that a book is deleted succesfult-positive functionality

**7.test\_borrow\_book**

Test that borrowing book is a success and we get correct borrowing book

Confirmation.

positive functionality

8.test\_borow\_not-exist\_book

Test we get 404 when trying to borrow book with non exist id number

Negative functionality.

9.**test\_return\_book**

Test that returning a book is a success & return confirmation message is

Valid-positive functionality.

10.**test\_return\_non\_exist\_book**

Test that trying to return a non exist book will return 404

Negative functionality.

11.**test\_add\_and\_update\_book**

Integration of 2 operations verify that after adding a book it

Can be updated successfully.

positive functionality

12.**test\_and\_\_delete\_new\_book**

Another integration of two operations

positive functionality

13.**test\_and\_delete\_not\_existant\_book**

Negative integration of two operations functionality

14 .test\_add\_and\_double\_delete\_book

Test adding one time a book and trying to delete it twice fails

With 404 .

Negative integration of two operations functionality

**15.test\_get\_user\_number**

Test the number of users

Positive functionality.

**16.test\_users\_details**

Test for each user its details:

1.Id

2. name

Positive functionality

17.test\_get\_user\_with\_wrong\_url\_suffix

Test that when we provide wrong url we get 404(resource not

Found)

Negative testing.

**Positive tests** are important to test system happy flows

These are the sanity tests.

**Negative testing** is also important so that the system behave as expected

When it fails.

**Integration testing** is important because we must verify that few operations

Work as expected together