# Iteration 2

Test Design

**Test cases**

* Add book
* Edit book
* Search book

**Requirements**

Language – JavaScript

Modules

* + Chai
  + Supertest

**Scenarios**  
Add book:

Client fill every information and press book, book can be added. (200 status)

Client fill every information but title and press add book. Book should not be added! (406 status)

Client fill only title and author and press add book, book can be added. (200 status)

Client just press add book with no information filled. Book should not be added! (406 status)

Client fill information about a book that already exist. Book should not be added. (500 status)

Edit book

Client change every information and press update book thus book will be updated with new information. (200 status)

Client change title and author to an already existing title with same author, error no book with same author can have the same name – book not updated! (500 status)

Client change nothing and press update – skips request thus not updating book. (404 status)

Client only change one or two fields therefor only changed fields should be updated in book. (200 status)

Search

Client search for existing book thus output should be matched book. (200 status)

Client search for false (non-existing) book -> no output. (200 status)

Client search for nothing (just press enter) thus display all books (200 status)

**Late introduction**

Scenarios set up some behaviours that is expected from the system, behaviours that should be tested. The actual test can be on how the database (booklist) is changed or a specific book or a status response.

**Setup**

In order to test the scenarios for add book there will be a need for checking book list before and after, as for edit checking affected book before and after. For search there isn’t very much to test but performance such as time. But since the system (database) is fairly small this won’t be a major problem.

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| --- | --- | --- | --- | --- | --- |
| Use Case | Scenario | Scene | Expected result | Actual result | Eventual fix |
| Add book | 1 | All info is filled | Book added, with all info added | As expected | None |
| 2 | All info but title is filled | Not added | Still added | Simple AND OR statement error fix |
| 3 | Only title and author is set | Book added | As expected | None |
| 4 | No info is set | Not added | As expected | None |
| 5 | Info with already existing book is filled | Not added | As expected | None |
| Edit book | 1 | All fields are set | Update | As expected | None |
| 2 | No fields are set | Don’t update | As expected | None |
| 3 | At least one field is set | Update | As expected | None |
| 4 | Author and title is changed to an already existing book | Don’t update | updates | Need to implement search for existing book if title or author been modified |
| Search book | 1 | Search for existing book | Get matched book/books (title or author match search key) | As expected | None |
| 2 | Search for non-existing book | No matched | As expected | None |
| 3 | Blank search | Get entire booklist | As expected | none |