

# Test planning

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*This version overrides all previous versions.*

# 1. User tests

Below is a list of user tests. A P in the test ID means that it is a positive test and a N is connected to a negative test. Test ID are connected to Requirements ID.

Description:  
Precondition:  
Test steps:  
  
Postcondition:  
Related requirements:

## Test ID 1.1-P **Book registration**

Description: A seller can register a book for sale  
Precondition: The seller have a book to sell, have the application and have filled in user details.  
Test steps:  
The tester is uploading a new book with the following information:  
(Robinson Crusoe, Daniel Defoe, 2nd edition, literature, excellent quality, 300 SEK, telephone: 1234567, password: muffins.  
  
Postcondition: A book is uploaded to the market. The tester then tries to update/change the price to 100 SEK by pressing the edit-button and use his password.  
Related requirements: 1.1

## Test ID 1.1-N **Book registration**

Description: A seller can register a book for sale  
Precondition: The tester have a book to sell, have the application, and have filled in user details.  
Test steps:  
The tester is uploading a new book with the following information:  
(Daniel Defoe, 2nd edition, literature, excellent quality, telephone: 1234567, password: muffins.  
  
Postcondition: The tester gets a error message saying "missing title and price".  
Related requirements: 1.1

## Test ID 1.1.1-P **Pricing a book**

Description: The seller can set a price for the book  
Precondition: The tester have a book to sell, have the application, and have filled in user details.  
Test steps: The tester uploads books with following testnumbers:  
99 SEK, 300 SEK, 1000 SEK, 0 SEK.  
  
Postcondition: A book is uploaded to the market with the correct price.  
Related requirements: 1.1.1

Test ID 1.1.1-N **Pricing a book**

Description: The seller can set a price for the book

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester uploads books with following test numbers:

1. hundra kronor, 2. 133700 SEK and 3. no input.

Postcondition: The tester should get a error message stating: "Invalid price, please write a number between 0-10000 SEK.

Related requirements: 1.1.1

Test ID 1.1.2-P **Picture uploading**

Description: The seller can upload a picture of the book for sale

Precondition: The tester have a book to sell, have the application, and have filled in user details, and wants to show a picture of the book.

Test steps: The tester takes a photo of a book and upload it from the camera photos together with the book.

Postcondition: A book in the market has a picture connected to it.

Related requirements: 1.1.2

Test ID 1.1.3-P **Title is required**

Description: The seller has to set a title for the book

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester should write "Robinson Crusoe" as title and add a book to the market.

Postcondition: Every added book have a title.

Related requirements: 1.1.3

Test ID 1.1.3-N **Title is required**

Description: The seller has to set a title for the book

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester should write the title "xxyy".

Postcondition: A book cannot be added without a title and the tester gets a exception message "Title must be greater than 10 characters".

Related requirements: 1.1.3

Test ID 1.1.4-P **ISBN number**

Description: The seller can set an ISBN for the book for sale

Precondition: The tester have a book to sell, have the application, and

have filled in user details.

Test steps: The tester should fill in "9789144060743" as ISBN (Java direkt med Swing).

Postcondition: A added book have a ISBN number

Related requirements: 1.1.4

Test ID 1.1.4-N **ISBN number**

Description: The seller can set an ISBN for the book for sale

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester should fill in 123456 as a ISBN-number.

Postcondition: The tester gets a exception message: "The ISBN-number must be 10 or 13 digits long."

Related requirements: 1.1.4

Test ID 1.1.5-P **Publishing year**

Description: The seller can set a publishing year for the book for sale.

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester fill in 1999 as publishing year.

Postcondition: A added book have a publishing year

Related requirements: 1.1.5

Test ID 1.1.5-N **Publishing year**

Description: The seller can set a publishing year for the book for sale.

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester fill in 2015 as a publishing year.

Postcondition: The tester gets a exception message: "this is not a valid publishing year".

Related requirements: 1.1.5

Test ID 1.1.6-P **Book connected to a course**

Description: The seller can set a course for which he/she used the book.

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester fill in:

1. "Databases" as Course and 2. "TDA357" as a course.

Postcondition: A book is added with a course connected to it.

Related requirements: 1.1.6

Test ID 1.1.7-P **Comments**

Description: The seller can add a comment about the book.

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester should fill in "excellent quality" as a comment.

Postcondition: A book is added with a comment connected to it.  
Related requirements: 1.1.7

Test ID 1.2-P **Taking a book off market or update information**

Description: The seller can update information about a book or take a book off the market.

Precondition: The tester have a book advertisement

Test steps: The tester is uploading a new book with the following information: (Robinson Crusoe, Daniel Defoe, 2nd edition, literature, excellent quality, 300 SEK, telephone: 1234567, password: muffins. The book should then be uploaded to the market. The tester then tries to delete the ad by pressing the edit-button and use the password. The book should be deleted from the market.

Postcondition: The book should be deleted from the market.  
Related requirements: 1.2

Test ID 1.2-N **Taking a book off market or update information**

Description: The seller can update information about a book or take a book off the market.

Precondition: The tester have a book advertisement

Test steps: The tester is uploading a new book with the following information: (Robinson Crusoe, Daniel Defoe, 2nd edition, literature, excellent quality, 300 SEK, telephone: 1234567, password: muffins. The book should then be uploaded to the market. The tester then tries to delete the ad by pressing the edit-button and puts in a wrong password.

Postcondition: The book is not editable and should be deleted from the market within two months.  
Related requirements: 1.2

Test ID 2.1.1-P **Search by title**

Description: In a search, a buyer can specify a book's title.

Precondition: The tester are looking for a specific book at the market

Test steps: The tester is searching for the title "Robinson Crusoe"

Postcondition: The tester should get a match and find the book.  
Related requirements: 2.1.1

Test ID 2.1.1-N **Search by title**

Description: In a search, a buyer can specify a book's title.

Precondition: The tester are looking for a specific book at the market  
Test steps: The tester should fill in "Petter och hans fyra getter" as a title.

Postcondition: The tester will not get a match in the market with the following message: "your search didn't match any books at the market".  
Related requirements: 2.1.1

Test ID 2.1.2-P **Search by author**

Description: In a search, a buyer can specify a book's author.

Precondition: The tester are looking for a specific book at the market. The Book "Robinson Crusoe" with the author "Daniel Defoe" is in the market.

Test steps: The tester is searching for the author "Daniel Defoe".

Postcondition: The tester gets a match and finds the book "Robinson Crusoe"

Related requirements: 2.1.2

Test ID 2.1.2-N **Search by author**

Description: In a search, a buyer can specify a book's author.

Precondition: The tester are looking for a specific book at the market

Test steps: The tester should fill in "Emil Nyström" as a author.

Postcondition: The tester will not get a match in the market, and get the following exception message: "your search didn't match any books at the market".

Related requirements: 2.1.2

Test ID 2.1.3-P **Search by course**

Description: In a search, a buyer can specify which course the book should be used in

Precondition: The tester are looking for a specific book at the market.

The book "Java direkt med Swing" for the course "objektorienterad programmering" is in the market. The book "Linear algebra and its applications" for the course TMV215 is in the market.

Test steps: The tester is searching for:

1. the course "objektorienterad programmering"
2. "TMV215"

then get a match on the book "Java direkt med Swing". The tester searches for the course "TMV215" (linear algebra) and get a match on the book "Linear algebra and its applications".

Postcondition: The tester will get a match on the first search:

"Java direkt med Swing".

The tester will get a match on the second search:

"Linear algebra and its applications".

Related requirements: 2.1.3

Test ID 2.1.3-N **Search by course**

Description: In a search, a buyer can specify which course the book should be used in

Precondition: The tester are looking for a specific book at the market.

The book "Java direkt med Swing" for the course "objektorienterad programmering" is in the market. The book "Linear algebra and its applications" for the course TMV215 is in the market.

Test steps: The tester should fill in "Harry Potter Knowledge" as a course.

Postcondition: The tester will not get a match in the market with the following message: "your search didn't match any books at the market".

Related requirements: 2.1.3

Test ID 2.1.4-P **Search sorting**

Description: A search can be sorted on any of the available attributes that a book can have. Originally it is sorted by price.

Precondition: The tester are looking for a specific book at the market. Three ads of the book "Robinson Crusoe" is in the market with the prices: 300, 100, 500.

Test steps: The tester is searching for the title "Robinson Crusoe" and then get three books with the cheapest first (100, 300, 500).

Postcondition: The tester gets three books as result with the cheapest first (100, 300, 500).

Related requirements: 2.1.4

Test ID 3.1-P **Book added by ISBN-number**

Description: A book can be uploaded by ISBN-number.

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester should fill in 9789144060743 as ISBN (Java direkt med Swing).

Postcondition: The tester gets the title: "Java direkt med Swing", the author "Jan Skansholm", and the edition "6".

Related requirements: 3.1

Test ID 3.1-N **Book added by ISBN-number**

Description: A book can be uploaded by ISBN-number.

Precondition: The tester have a book to sell, have the application, and have filled in user details.

Test steps: The tester should fill in "1234567" as ISBN.

Postcondition: The tester gets a error message saying: "Not a valid ISBN-number".

Related requirements: 3.1

Test ID NF1 **Usability**

*Positive test:* The tester should ask someone who hasn't used the application before and ask them to add a book. and take time of the process and ask questions afterwards, in order to understand if the application is considered

easy to understand. Read more under headline 7 regarding black box testing.

Test ID NF2 **Reliability**

*Positive test:* The tester will add books at the same time as three other testers. This small test will indicate if the server can handle four uploading books at the same time.

Test ID NF3 **Performance**

*Positive test:* The tester should view information about a book and then turn of the internet connection the the phone. The tester should then open the application and still see the information on the book viewed last time.

Test ID NF5 **Implementation**

*Positive test:* After every release, the tester should control that the client-side application cannot exceed 10 MB.

## 2. Unit tests

## 4. Other related documents

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| test_report.pdf                       | Test report for the latest release    |
| developer_and_new_user_guidelines.pdf | Information for new users and testers |
| requirements.pdf                      | Information regarding requirements    |