**Project**: Book Store

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Book Store

[**Project description**](#_70poaayqiy29) **4**

[**Sitemap**](#_3znysh7) **4**

[**Header, footer**](#_h4f0ihdj5d8q) **5**

[Header](#_tyjcwt) 5

[Footer](#_3dy6vkm) 5

[**Steps**](#_1t3h5sf) **5**

[1 step](#_ylkp98ntso4i) 5

[Home](#_j1z2ux4bm5ki) 5

[Home page](#_lor23yl6nm0e) 5

[Latest books](#_br96b422tfl6) 6

[Get Started](#_mguru4xp9a9h) 6

[2 step](#_kwhyhjtvw5wi) 6

[Catalog](#_cjv0tq7gwhc3) 7

[Book page](#_17dp8vu) 7

[Read More](#_5tzhaeos2ydq) 8

[Back to results](#_sxj1chh7dnw4) 8

[3 step](#_dr6a29v5vtq2) 8

[Log in/ Sign up](#_tzw6v8y35jp7) 8

[Sign up](#_e640mnmpcrwt) 8

[Log In](#_d76y76xk9yv2) 9

[Forgot password](#_svvx8z5z3w7y) 10

[Set New Password](#_2xcytpi) 11

[4 step](#_l53c4jgkzulu) 11

[My Account/Settings/Addresses](#_1ci93xb) 11

[Billing address](#_vk1hwk4qcbog) 11

[Shipping Address](#_qytgx89qfmcq) 12

[My Account/Settings/Privacy](#_3whwml4) 12

[Email](#_f67tw0pt7bup) 12

[Password](#_wrug6ytexqvf) 12

[Remove Account](#_irfuwihucen2) 13

[5 step](#_yzlh4bf1m75c) 13

[6 step](#_kfwqmqg5kqhu) 13

[Book page](#_eide6oly2p84) 13

[Write a Review](#_oj8b4qx41x85) 14

[7 step](#_1ajknmpz83uw) 14

[8 step](#_g54swj9sym77) 14

[Book page](#_n44torm8n2u0) 14

[Add to Cart](#_oxvy9kh31ldv) 15

[Cart](#_bip6xufatl5c) 15

[Item details](#_y84ko79j79yi) 15

[Edit](#_mil075a554ef) 16

[Coupon](#_lkq2nx755t9g) 16

[Conditions:](#_prnv0rpeu8tb) 16

[9 step](#_jg7rod852g9p) 16

[Checkout Login](#_ky8hlctwleqb) 16

[10 step](#_4yox9hj400c8) 17

[Addresses](#_28d5xslp75mo) 17

[Use Billing Address](#_kyxotgd61nd3) 18

[Shipping](#_lnxbz9) 18

[Payment](#_35nkun2) 18

[Hint](#_bsbxqlpygjjn) 19

[Confirm](#_1ksv4uv) 19

[Checkout complete](#_p10nqkaudqy5) 20

[11 step](#_tws4gjgfu2gk) 20

[Bestsellers](#_btofbjqk9up1) 20

[My Account/Orders](#_2bn6wsx) 21

[Waiting for processing](#_qsh70q) 21

[In delivery](#_3as4poj) 21

[Delivered](#_1pxezwc) 21

[Canceled](#_49x2ik5) 22

[My account/Orders/View order details](#_147n2zr) 22

[Log Out](#_3o7alnk) 22

[**Validation rules**](#_23ckvvd) **23**

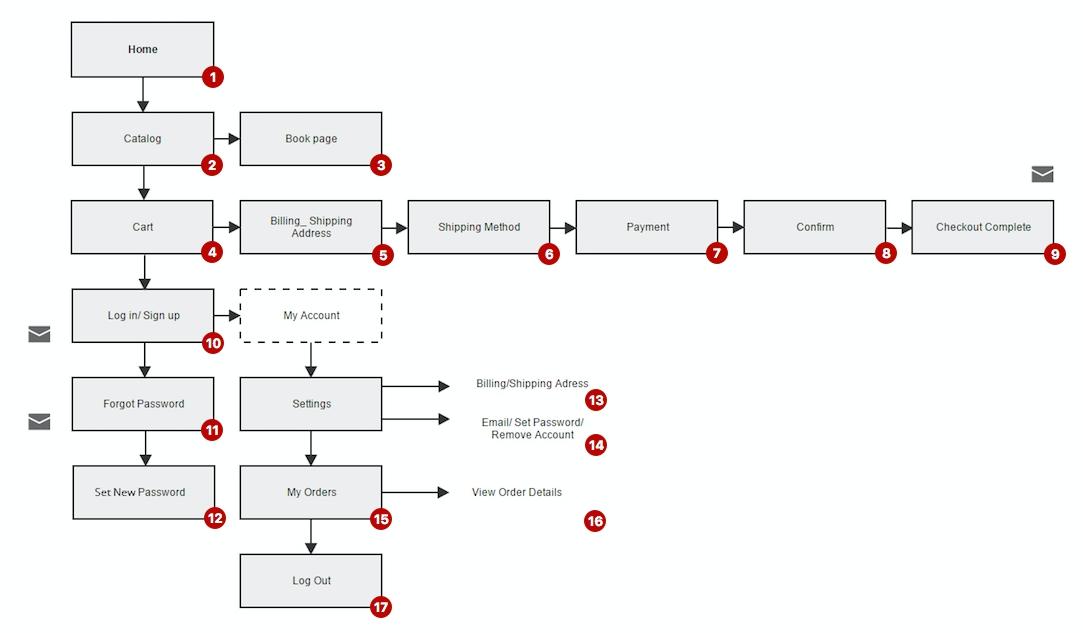
# 

# Project description

The idea of the project is an online book shop for customers who are interested in mobile development, photo, web design, web development, and other topics. The list of topics can change depending on data in Admin Panel.

The web application will let registered users or guests find and buy books using a mobile phone, tablet, laptop, or PC.

# Sitemap



# 

# Header, footer

## Header

**Contains:**

Name of the Shop,  
**Menu:**

Home, Shop, My Account (Log in, Sign up), Cart with the counter of items quantity.

## Footer

**Contains:**

**Menu:**

Home, Shop, (Orders, Settings – for logged in user).  
**Contact information:** email, phone.

**Social links:** Facebook, Twitter, Instagram.

# Steps

## 1 step

* Initialize Project (Setup Rails, setup basic gems, setup linters, setup environment and environment variables if needed);
* Setup assets and static pages markup;
* Heroku Deployment;
* CircleCI configuration;
* Setup Home page without images and bestsellers;
* Write tests (unit, feature) for your new code.

### Home

**On this page are placed:**

* Four items,
* The Preview view,
* Each item has a Photo, Name, Author(s), and Price (€ 00.00)
* with Book View and Add to Cart buttons.

### Home page

Given The user is *logged in or a guest*

And he is on the *Home page*

Then he can see *Latest books, Get Started, Best sellers* blocks*.*

List of Blocks

| **Block** | **Value** | **Description** |
| --- | --- | --- |
| *Latest books* | A slider with 3 views. Contains: a book photo, a name, a short description, the authors and a ‘Buy now’ button. | Displays latest 3 books, added onto website. |
| *Get Started* | A text block with a ‘Get Started’ button. Default: ‘Welcome to our amazing Bookstore! We pore through hundreds of new books each month and select the five best to share with our members’ | A default welcoming text. |
| *Best sellers* | A grade view of 4x1. Each item has: a Photo, Name, Author(s), and Price (€ 00.00), with Book View and Add to Cart buttons. | A grade view of 4 books, that was sold more than all others in each category: Mobile development, Photo, Web design, or Web development. |

#### Latest books

Given The user is *logged in or a guest*

And he is at the *Home* page, *Latest books*

When the user wants to flip the slide

Then he clicks on it

And the next slide is shown.

When he wants to add an item to the *Cart*

Then he clicks the *Buy Now* button and the chosen item will be added to the cart.

#### Get Started

Given The user is *logged in or a guest*

And he is at the *Home* page, *Get Started*

When he clicks the *Get Started* button

Then he will be transferred to the *Catalog page, All* filter by default.

## 2 step

* Catalog;
* Show books
* Show categories with books count
* Filter/Sort books
* Paginate books

**Except bestseller logic and images**

* Book page
* Info about book
* Price calculator
* Read more
* Back to results  
  **Without images; Without reviews; Without Add to Cart functionality**
* Write tests (unit, feature) for your new code.

### Catalog

**On this page are placed:**

Grade view 4x3 (12 results on the page), ordered by Title: A – Z,

Preview view,

Each item has a Photo, Name, Author(s), and Price (€ 00.00)

with the Book View and Add to Cart buttons.

Filters with the quantity counter of books in it:  
All, Mobile development, Photo, Web design, or Web development.

Ordered by:

Newest first, Popular first, Price: low to high, Price: high to low, Title: A - Z, Title: Z - A.

Given The user is *logged in or a guest*

When he wants to see a range of books in the shop

Then he clicks the *Shop* link in the top right corner

And he chose a *Category* in the drop-down list

And will be transferred to the *Catalog* page with category selected.

And he can change a filter by theme (only one filter can be chosen from this list),

And he can change the order of displayed items.

When there are more search results than a page can display,

Then the user can click the *View More* button at the bottom of the page,

And the system displays next results below the first ones on the page.

### Book page

**On this page are placed:**

Four book’s photos, Name, Author(s), Price (€ 00.00), Quantity, Description (6 text lines + Read More), Year of publication, Dimensions (H: 0.0” x W: 0.0” x D: 0.0”, where ” - inches), Materials,

Reviews with the quantity counter(Each Review contains a Title, the Full name of a reviewer, their avatar, date of creation, rating for a book and text of the review, order by: from newest to oldest. If a review was left by a registered user and he accomplished a purchase, “Verified Reviewer” mark must be located at the opposite of the Full name),

Add to Cart button, Write a Review button, Back to results link.

Given The user is *logged in or a guest*

When he wants to see details about a book

Then he places cursor on the photo of the book

And clicks the *View* icon,

Then he will be transferred to the *Book view*.

#### Read More

Given The user is *logged in or a guest*

And he is at the *Book view*,

When the description of a book has more than 250 chars of text

And the user wants to read a full description

Then he clicks the *Read More* link at the end of the last line,

And the entire description will be displayed.

When the description of a book has less than 250 chars of text

*Read More* link should not be displayed.

#### Back to results

Given The user is *logged in or a guest*

And he is at the *Book view*

When he wants to turn back to the previous page

And he clicks the *Back to results* link

Then he will be transferred to the page he was transferred.

## 3 step

* Log in page
* Sign up page
* Forgot password page
* Dynamic headers/footers for all pages for guest/user
* Log in logic with dynamic error setting(Simple Form)
* Sign up logic with dynamic error setting(Simple Form)
* Registration via Omniauth-Facebook
* Send notification to user about registration/forgot password
* Write tests (unit, feature) for your new code.

### Log in/ Sign up

#### Sign up

**On this page are placed:**

Facebook icon,

Email, Password and Confirm Password fields,

Sign up button, Log In link.

Given The user is a *guest*

When he wants to register a new account

And he clicks the *Sign up* link

Thenthe *Sign up* page will be opened.

**When** he already has an account

**Then** he can click the *Log In* link

**And** he will be transferred to the *Log In* page.

When the user clicks the *Facebook* icon,

And a new browser window will be opened.

When the user isn’t logged in to Facebook in his browser,

Then he enters his Facebook login and password

And clicks the *Log In* button.

Then the user will be asked to allow for access to his public profile, friend list, email address, birthday and current city,

And he clicks the *Continue as [User]* button,

Then the Facebook window will be closed

And a new account will be created, the user will be logged in.

When the user was logged in to Facebook in his browser,

Then he will be asked to allow for access right after the window will be opened,

And the user clicks the *Continue as [User]* button,

Then the Facebook window will be closed

And a new account will be created, the user will be logged in.

When the user wants to register a new account using Email

And the user enters his email address into the *Email* field,

And enters a password into the *Password* field,

And enters the same password into the *Confirmation Password* field,

Then he clicks the *Sign Up* button

And a new account will be created, the user will be logged in.

#### Log In

**On this page are placed:**

Facebook icon,

Email, Password,

Log In button, Sign up link.

Forgot password? link.

Given The user has an account

When he wants to log in

Then he clicks the *Log In* link

And the *Log In* page will be opened.

When the user has a Facebook-linked account,

And the user clicks the *Facebook* icon,

Then a new browser window will be opened.

When the user isn’t logged in to Facebook in his browser,

Then the he enters his Facebook login and password

And clicks on the *Log In* button,

Then he clicks the *Continue as [User]* button,

And a Facebook window will be closed

And the user will be logged in on the website.

When the user was logged in to Facebook in his browser,

Then he will be logged in on the website right away after the window will be opened,

And the user clicks the *Continue as [User]* button,

Then the Facebook window will be closed

And the user will be logged in on the website.

When the user has an email account,

Then he enters his email address that he registered with into the *Email* field,

And enters a password in the *Password* field,

And the user can use the *Remember me* checkbox,

Then he clicks the *Log In* button and he will be logged in.

When the user has an email account,

But he doesn’t remember his password

And he clicks the *Forgot Password?* link

Then the user will be transferred to the *Password restore* page.

### Forgot password

**On this page are placed:**

Forgot password page:

Enter your email field, Email instructions button, Cancel button.

Reset Password page:

New Password field, Confirmation Password field, Save button, Cancel button.

Given The user has an account

When he doesn’t remember the password for this account

Then he clicks the *Forgot password?* link

And is transferred to the *Restore Password* page.

Then the user needs to enter the email he used for registration into the *Enter your email* field

And click the *Email instructions* button.

### Set New Password

**On this page are placed:**

Type a New Password field, Confirm Password field, Change button.

Given The user has an account

When he receives an email with instructions

And clicks the *Reset Password* link

Then he will be transferred to the *Set New Password* page.

And he enters a new password into the *Type a New Password* field,

And enters the same password into the *Confirmation Password* field,

Then he clicks the *Change* button and the password will be changed.

## 4 step

* User profile page
* Personal information form
* Delete account form
* Addresses form
* Write tests (unit, feature) for your new code.

### My Account/Settings/Addresses

**On this page are placed:**

Billing Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone (all fields are required),

Save button.

Shipping Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone (all fields are required),

Save button.

#### Billing address

Given The user is *logged in*

When he wants to add a billing address to his account

Then he opens the *My Account* menu in top right corner

And clicks the *Settings* link.

Then the user will be transferred to the *Settings* page, the *Addresses* tab.

And the user needs to fill all required fields for the Billing Address,

And he clicks the *Save* button,

Then data will be saved.

#### Shipping Address

Given The user is *logged in*

When he wants to add a shipping address to his account

Then he opensthe *My Account* drop down menu in top right corner

And clicks the *Settings* link.

Then the user will be transferred to the *Settings* page, the *Addresses* tab.

And the user needs to fill all required fields for the Shipping Address,

And he clicks the *Save* button,

Then data will be saved.

### My Account/Settings/Privacy

**On this page are placed:**

Email block:  
Enter Email field, Save button.

Password block:

Old password field, New Password field, Confirm Password field, Save button.

Remove Account block:

Please Remove My Account button, ‘I understand that all data will be lost’ checkbox.

#### Email

Given The user is *logged in*

When he wants to change an email saved in his account

Then he opens the *My Account* drop down menu in top right corner

And clicks the *Settings* link,

And the user will be transferred to the *Settings* page, the *Addresses* tab,

And he clicks the *Privacy* tab,

Then he enters a new email address in the *Enter Email* field

And clicks the *Save* button,

Then data will be saved.

#### Password

Given The user is *logged in*

When he wants to change his password

Then he opens the *My Account* drop down menu in top right corner

And clicks the *Settings* link,

And the user will be transferred to the *Settings* page, the *Addresses* tab,

And he clicks the *Privacy* tab,

Then he enters his old password in the *Old Password* field,

And enters his new password in the *New Password* field,

And enters a confirmation password in the *Confirmation Password* field,

And click the *Save* button

Then data will be saved.

#### Remove Account

Given The user is *logged in*

When he wants to delete his account

Then he opens the *My Account* drop down menu in top right corner

And clicks the *Settings* link,

And the user will be transferred to the *Settings* page, the *Addresses* tab,

And he clicks the *Privacy* tab,

And he checks the checkbox *‘I understand that all data will be lost’*

And he clicks the *Please Remove My Accoun*t button

Then the account with all associated data will be deleted.

## 5 step

* Admin part(without Orders, Reviews, CreditCards, Coupons, Delivery Types)

**For detailed information on Admin Panel of Bookstore, please proceed to this file**

<https://docs.google.com/document/d/1U7EF6Zmeyf5Nj4RhmFg7X0abrn1pcuZQGA_DT7xNV4c/edit?usp=sharing>

* Write tests (unit, feature) for your new code.

## 6 step

* Reviews on Book page and Admin page logic

**For detailed information on Admin Panel of Bookstore, please proceed to this file**

<https://docs.google.com/document/d/1U7EF6Zmeyf5Nj4RhmFg7X0abrn1pcuZQGA_DT7xNV4c/edit?usp=sharing>

* Write tests (unit, feature) for your new code.

### Book page

**On this page are placed:**

Four book’s photos, Name, Author(s), Price (€ 00.00), Quantity, Description (6 text lines + Read More), Year of publication, Dimensions (H: 0.0” x W: 0.0” x D: 0.0”, where ” - inches), Materials,

Reviews with the quantity counter(Each Review contains a Title, the Full name of a reviewer, their avatar, date of creation, rating for a book and text of the review, order by: from newest to oldest. If a review was left by a registered user and he accomplished a purchase, “Verified Reviewer” mark must be located at the opposite of the Full name),

Add to Cart button, Write a Review button, Back to results link.

Given The user is *logged in or a guest*

When he wants to see details about a book

Then he places cursor on the photo of the book

And clicks the *View* icon,

Then he will be transferred to the *Book view*.

#### Write a Review

Given The user is *logged in*

And he is at the *Book view*

When he wants to leave a review about a book

Then he scrolls down to the end of reviews to the *Write a Review* block,

And he assigns a score,

And enters a *Title*,

And enters a text of review in the *Review* text box,

And clicks the *Post* button,

Then the user will see a message: ‘Thanks for Review. It will be published as soon as Admin will approve it.’

And his review is sent to the *Admin panel, Reviews,* the *New* tab.

## 7 step

* Images uploading/displaying for all imagable models and pages
* Storing of production images on S3
* Write tests (unit, feature) for your new code.

## 8 step

* Cart logic
* Coupon logic
* Write tests (unit, feature) for your new code.

### Book page

**On this page are placed:**

Four book’s photos, Name, Author(s), Price (€ 00.00), Quantity, Description (6 text lines + Read More), Year of publication, Dimensions (H: 0.0” x W: 0.0” x D: 0.0”, where ” - inches), Materials,

Reviews with the quantity counter(Each Review contains a Title, the Full name of a reviewer, their avatar, date of creation, rating for a book and text of the review, order by: from newest to oldest. If a review was left by a registered user and he accomplished a purchase, “Verified Reviewer” mark must be located at the opposite of the Full name),

Add to Cart button, Write a Review button, Back to results link.

Given The user is *logged in or a guest*

When he wants to see details about a book

Then he places cursor on the photo of the book

And clicks the *View* icon,

Then he will be transferred to the *Book view*.

#### Add to Cart

Given The user is *logged in or a guest*

And he is at the *Book view*,

When the user wants to add a book to his cart

Then he chooses quantity by clicking the ‘-’/‘+’ buttons (default value=1, increment=1, decrement=1)

And clicks the *Add to Cart* button,

Then the specified quantity of this book will be added to his *Cart*.

### Cart

**On this page are placed:**

List of added Products with attributes:

Photo, Name, Price (€ 00.00), Quantity, and Subtotal

With the Delete button.

The Enter Your Coupon Code field and the Update Cart button.

Order Summary with lines:

Subtotal (€ 00.00), Coupon (€ 00.00), Order Total (€ 00.00).

The Checkout button.

Given The user is *logged in or a guest*

When he wants to check his *Cart*

Then he clicks the icon in top right corner

And he will be transferred to the *Cart* page.

#### Item details

Given The user is *logged in or a guest*

And he is at the *Cart* page

When he wants to check the details of an item in the Cart,

And he clicks on its Name or Photo,

Then he will be transferred to the Book View of the item he clicked.

#### Edit

Given The user is *logged in or a guest*

And he is at the *Cart* page,

When he wants to change the quantity of products in the cart,

And he clicks the ‘-’/‘+’ buttons (default value=1, increment=1, decrement=1),

Then quantity of the product will be changed.

When he wants to delete a product from the cart,

And he clicks the *Cross* icon against the product

Then the item will be deleted from the *Cart*.

#### Coupon

Given The user is *logged in or a guest*

And he is at the *Cart* page

When he wants to use a coupon

And he enters coupon code in the *Enter Your Coupon Code* field

And clicks the *Update Cart* button

Then the amount of discount will be displayed in the *Coupon* amount in *Order Summary*

And will be deducted from the *Order Total* amount.

#### *Conditions*

* A coupon must be valid until the order is processed and the user proceeds to the *Checkout* page, *Complete* tab
* A coupon can be used only for one order.

## 9 step

* Authentication without password step (Checkout)
* Write tests (unit, feature) for your new code.

### Checkout Login

**On this page are placed:**

Returning Customer block with attributes:

Facebook icon,

Email, Password,

Log In with Password button.

New Customer block with attributes:

Facebook icon,

Email,  
Continue to Checkout button.

Given The user has an account

And he is at the *Checkout Login* page

When he wants to proceed with the order

Then he needs to enter the email address he registered with into the *Email* field,

And enters the password into the *Password* field,

And he clicks *Log In with Password*,

Then he will be logged in and transferred to the *Checkout* page, the *Addresses* tab.

Given The user is a Guest

And he is at the *Checkout Login* page

When he wants to proceed with the order

Then he needs to enter his valid email to the Enter Email field,

And clicks the Continue to Checkout button,

Then he receives a reset password email and is transferred to the *Checkout* page, the *Addresses* tab.  
(User can set his password after checkout)

## 10 step

* Checkout
* Write tests (unit, feature) for your new code.

### Addresses

**On this page are placed:**

Billing Address with attributes:

First Name, Last Name, Address, City, Zip, Country, and Phone (all fields are required)

Shipping Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone (all fields are required)

Use Billing Address checkbox, Save and Continue button.

Order Summary with lines:

Subtotal (€ 00.00), Coupon (€-00.00), Shipping (€ 00.00), Total (€ 00.00).

Given The user is *logged in*

And he is at the *Checkout* page, the *Addresses* tab

And he hasn’t filled the *Billing* and *Shipping* addresses in the account settings

Then he needs to fill all required fields,

And he clicks the *Save and Continue* button,

Then the data will be saved, and the user will be transferred to the *Shipping* step.

#### Use Billing Address

Given The user is *logged in*

And he is at the *Checkout* page, the *Addresses* tab

And he has not filled *Shipping* addresses in the account settings

But his *Billing* and *Shipping* addresses are the same

And he needs to put a tick in *Use Billing Address* checkbox

Then his *Shipping Address* will be the same as *Billing Address*,

And *Shipping Address form* be hided,

Then he clicks the *Save and Continue* button and data will be saved, and the user will be transferred to the *Shipping* step.

Given The user is *logged in*

And he is at the *Checkout* page, the *Addresses* tab

And he has filled *Billing* and *Shipping* addresses in the account settings

Then they will be displayed on the page.

When he wants to change the entered data, he should be able to do it,

Then he clicks the *Save and Continue* button and data will be saved for a current order, and the user will be transferred to the *Shipping* step.

#### Shipping

**On this page are placed:**

The list of shipping methods with attributes:

Method(Name), Days, Price (€ 00.00).

Order Summary with lines:

Subtotal (€ 00.00), Coupon (€-00.00), Shipping (€ 00.00), Total (€ 00.00).

The Save and Continue button.

Given The user is *logged in*

And he is at the *Checkout* page, the *Delivery* tab

And he clicks a chosen option (only one can be chosen from this list)

Then the *Price* of the option will be displayed in the *Shipping* amount of *Order Summary*,

And *Price* of the option will be added to the *Order Total* amount.

Then he clicks *Save and Continue* button

And data will be saved, and the user will be transferred to the *Payment* step.

#### Payment

**On this page are placed:**

Credit Card with attributes:

Credit Number, MM/YY, CVV (all fields are required)

Order Summary with lines:

Subtotal (€ 00.00), Coupon (€-00.00), Shipping (€ 00.00), Total (€ 00.00).

Hint, Save and Continue button.

Given The user is *logged in*

And he is at the *Checkout* page, the *Payment* tab,

Then he needs to fill in all required fields,

And he clicks the *Save and Continue* button

Then data will be saved, the user will be transferred to the *Confirm* step.

#### Hint

Given The user is *logged in*

And he is at the *Checkout* page, the *Payment* tab,

And he places the cursor on the *Information* icon,

Then a message shows up: ‘3-digit security code, usually found on the back of your card. American Express cards has 4-digit code, located on the front’.

#### Confirm

**On this page are placed:**

Shipping Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone.

Edit link.

Billing Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone.

Edit link.

Shipments with attributes:

Shipment method, Price (€ 00.00).

Edit link.

Payment Information with attributes:

Card Number (\*\*\*\* \*\*\*\* \*\*\*\* 0000), MM/YY.

Edit link.

List of added Products with attributes:

Photo, Name, Description (first sentence), Price (€ 00.00), Quantity, Total

Order Summary with lines:

Subtotal (€ 00.00), Coupon (€-00.00), Shipping (€ 00.00), Total (€ 00.00).

Place Order button.

Given The user is *logged in*

And he is at the *Checkout* page, the *Confirm* tab

When the user needs to change the data

And he clicks the *Edit* link against the block of data to change

Then the user will be transferred to the step related to this block

And all saved data must be in the fields for example if user clicks the edit address link he will be transferred on checkout address page and all data he filled on this step must be in fields and if he checks use billing address checkbox, shipping address form must be hidden as well.

When all data is correct,

And the user clicks the *Place Order* button

Then all data will be saved, the user will be transferred *Checkout complete* page.

### Checkout complete

**On this page are placed:**

‘Thank You for your Order!’ message:

‘An order confirmation email has been sent to [user email].’

Shipping Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone.

Order Number (R00000000), Date of order creation ( Month d, yyyy).

List of added Products with attributes:

Photo, Name, Description (first sentence), Price (€ 00.00), Quantity, Total.

Order Summary with lines:

Subtotal (€ 00.00), Coupon (€-00.00), Shipping (€ 00.00), Total (€ 00.00).

Back to Store button.

Given The user *is logged in*

And he is at the *Checkout* page, the *Complete* tab

And the user can check all displayed information,

Then the user can click the *Back to Store* button,

And he will be transferred to the *Catalog* page.

## 11 step

* Bestsellers query
* My orders page
* Write tests (unit, feature) for your new code.

#### Bestsellers

Given The user is *logged in or a guest*

And he is at the *Home* page, *Best Sellers*

When the user wants to see the details of the item,

Then he places the cursor on a photo of the item

And clicks the *View* icon,

Then he will be transferred to the *Book view*.

When the user wants to add an item to the *Cart*,

he places the cursor on the photo of the item

And clicks the *Cart* icon,

Then the item will be added into his *Cart*.

### My Account/Orders

**On this page are placed:**

List of orders with attributes:

Number (R00000000), Completed at (yyyy-mm-dd), Status, Total (€ 00.00).

Filter with attributes:

Waiting for processing, In delivery, Delivered, Canceled.

Given The user is *logged in*

When he wants to see all his orders

Then he opens the *My Account* drop down menu in top right corner

And clicks the *Orders* link,

And the user will be transferred to the *Orders* page.

Then the user will see the list of his orders (sorted by date by default),

And he can sort this list by using a filter.

#### Waiting for processing

Given The user is *logged in*

And he is at *Orders* page,  
When he click on *Waiting for processing* filter,

Then the system displays payed orders that are waiting to be sent.

#### In delivery

Given The user is *logged in*

And he is at *Orders* page,  
When he click on *In delivery* filter,

Then the system displays payed orders that was sent and are delivering.

#### Delivered

Given The user is *logged in*

And he is at *Orders* page,  
When he click on *Delivered* filter,

Then the system displays payed orders that was successfully delivered.

#### Canceled

Given The user is *logged in*

And he is at *Orders* page,  
When he click on *Canceled* filter,

Then the system displays payed orders that was canceled.

### My account/Orders/View order details

**On this page are placed:**

Order Number (R00000000),

Shipping Address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone.

Billing address with attributes:

First Name, Last Name, Address, City, Zip, Country, Phone.

Shipments with attributes:

Shipment method, Price (€ 00.00).

Payment Information with attributes:

Card Number (\*\*\*\* \*\*\*\* \*\*\*\* 0000), MM/YY.

List of added Products with attributes:

Photo, Name, Description (first sentence), Price (€ 00.00), Quantity, Total

Order Summary with lines:

Subtotal (€ 00.00), Shipping (€ 00.00), Order Total (€ 00.00).

Place Order button.

Given The user is *logged in*

When he wants to see all his orders

Then he opens the *My Account* drop down menu in top right corner

And clicks the *Orders* link,

And the user will be transferred to the *Orders* page.

When he wants to see details of a particular order,

Then he clicks the order in the list,

And is transferred to the *View order details* page.

### Log Out

Given The user is *logged in*

When he wants to log out

Then he clicks the *My account* drop down list at top right corner of the page

And clicks the *Log Out* link in the end of the list,

Then the user will be logged out.

# Validation rules

Email

New Password

Confirmation password

Old Password

Review’s Title

Review’s Text

First Name

Last Name

Address

City

Zip

Phone

Card Number

Name on Card

MM/YY

CVV

**Email field:**

Should not be not empty,

Has a localpart on the left of an @, the domain on the right. Neither the localpart nor the domain can be empty.

The localpart can consist of labels separated by dots but it cannot have two successive dots, nor can it start or end with a dot.

Labels consist of a-z, A-Z, 0-9, or one of !#$%&'\*+-/=?^\_`{|}~.

Labels must be less than 63 characters.

Labels must not start with a hyphen, end with a hyphen, or contain two successive hyphens.

The right-most label must be all alphabetic.

**Password field**:

Should be masked.

Minimum 8 letters, at least 1 uppercase, at least 1 lowercase, at least 1 number.

Mustn’t contain spaces inside,

Spaces at the beginning and at the end should be cut off.

**Confirmation password:**

Should be masked.

Should be exactly the same as the previously entered password.

**Review’s Title field:**

Should not be not empty,

Consist of a-z, A-Z, 0-9, or one of !#$%&'\*+-/=?^\_`{|}~.

Must be less than 80 characters.

**Review’s Text box:**

Cannot be not empty,

Consist of a-z, A-Z, 0-9, or one of !#$%&'\*+-/=?^\_`{|}~.

Must be less than 500 characters.

**First Name:**

Cannot be not empty,

Must consist of only a-z and A-Z characters without special symbols,

Must be less than 50 characters.

**Last Name:**

Should not be not empty,

Consist of a-z, A-Z only, no special symbols,

Must be less than 50 characters.

**Address:**

Should not be not empty,

Consist of a-z, A-Z, 0-9,’,’, ‘-’, ‘ ’ only, no special symbols,

Must be less than 50 characters.

**Country:**

Should not be not empty,

Consist of a-z, A-Z only, no special symbols,

Must be less than 50 characters.

**City:**

Should not be not empty,

Consist of a-z, A-Z only, no special symbols,

Must be less than 50 characters.

**Zip:**

Should not be empty,

Consist of 0-9 only,’-’ no special symbols.

Max Length should be 10 characters.

**Phone:**

Should not be empty,

Plus (+) at the beginning,

After should contain country code of chosen country in Country drop down list

Consist of 0-9 only no special symbols.

Must be 15 characters or less.

**Old Password:**

Should match the current password of user.

Should be masked.

**Card Number:**

Should not be empty,

Can start with

Consist of 0-9 only,

**Name on Card:**

Should not be not empty,

Consist of a-z, A-Z, no special symbols,

Can contain spaces,

Must be less than 50 characters.

**MM/YY:**

Should not be empty,

Has a month on the left of a slash /, the year on the right.

Month value can be from 01 to 12.

**CVV:**

Should not be empty,

Should be masked.

Min Length is 3 digits, or

Min Length is 4 digits.