

Exercises: Bootstrap and State Management

Problems for exercises and homework for the [“C# Web Basics” course @ SoftUni](#).

1. Fruits and Salads: Initial Page Design

You are given a file **fruits.html**. Make it look like the picture below using Bootstrap.

Favorites

- [Banana](#)
- [Watermelon](#)
- [Apple](#)

Fresh Fruits & Salads

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2. Fruits and Salads: Improved Page Design

Improve the design of the page by **adding a salad section** and **search box** in side bar, **quote**, **table** and **3 image thumbnails**. (use any 3 pictures you want). At the end of this exercise the page should look like the picture below.

Favorites

- [Banana](#)
- [Watermelon](#)
- [Apple](#)
- [Salads](#)

Search Fruits

Fresh Fruits & Salads

The best fruits and salads cane be found here.

G. Ramsey

Nutrition Info

Fruit	Vitamins
Banana	A, C, B6
Watermelon	A, C
Apple	A, C

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3. Fruits and Salads: Final Page Design

Now let's make final touches in our page. **Add alert** at the top of the page that can be **dismissed** and **turn the side bar into nav element**, displayed as **stacked pills**. Also, transform the image thumbnails at the bottom of the page to **cards with card block under them**, containing short information about them. The final result should look like the picture below.

Favorites

Banana

Watermelon

Apple

Salads

Search Fruits

Uh oh! Have you eaten a fruit today?



Fresh Fruits & Salads

The best fruits and salads cane be found here.

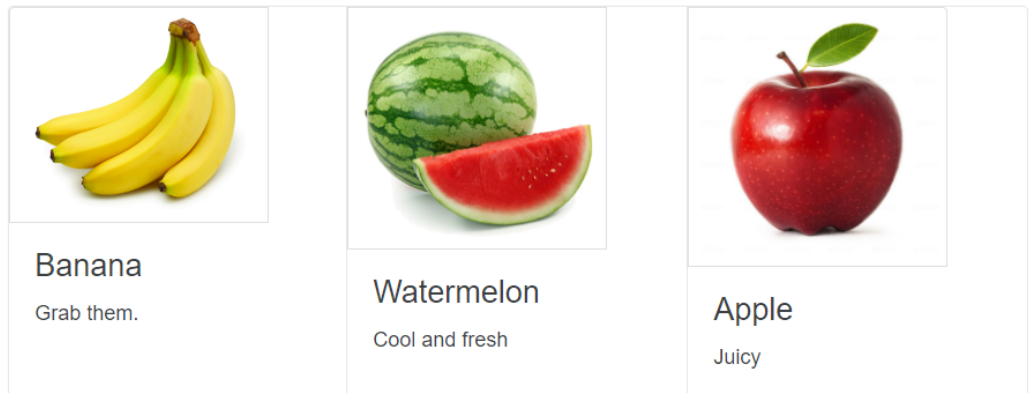
G. Ramsey

Nutrition Info

Fruit	Vitamins
Banana	A, C, B6
Watermelon	A, C
Apple	A, C

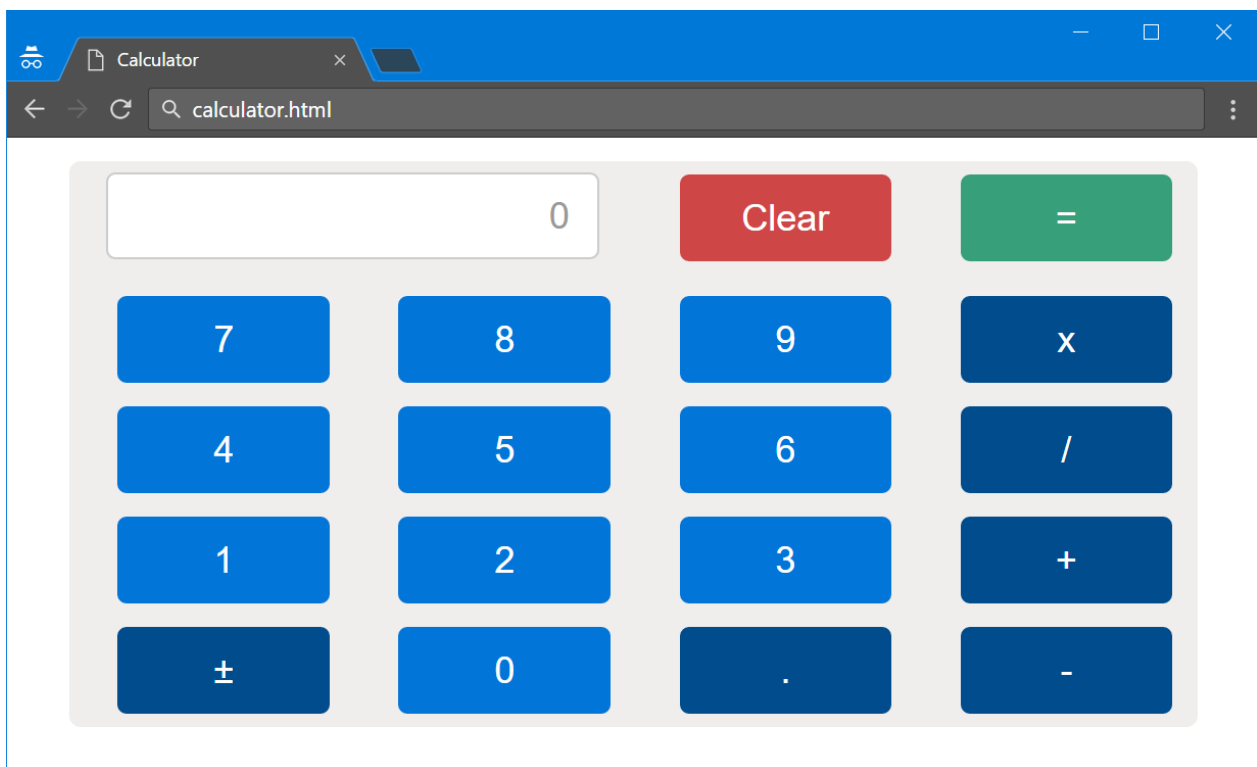
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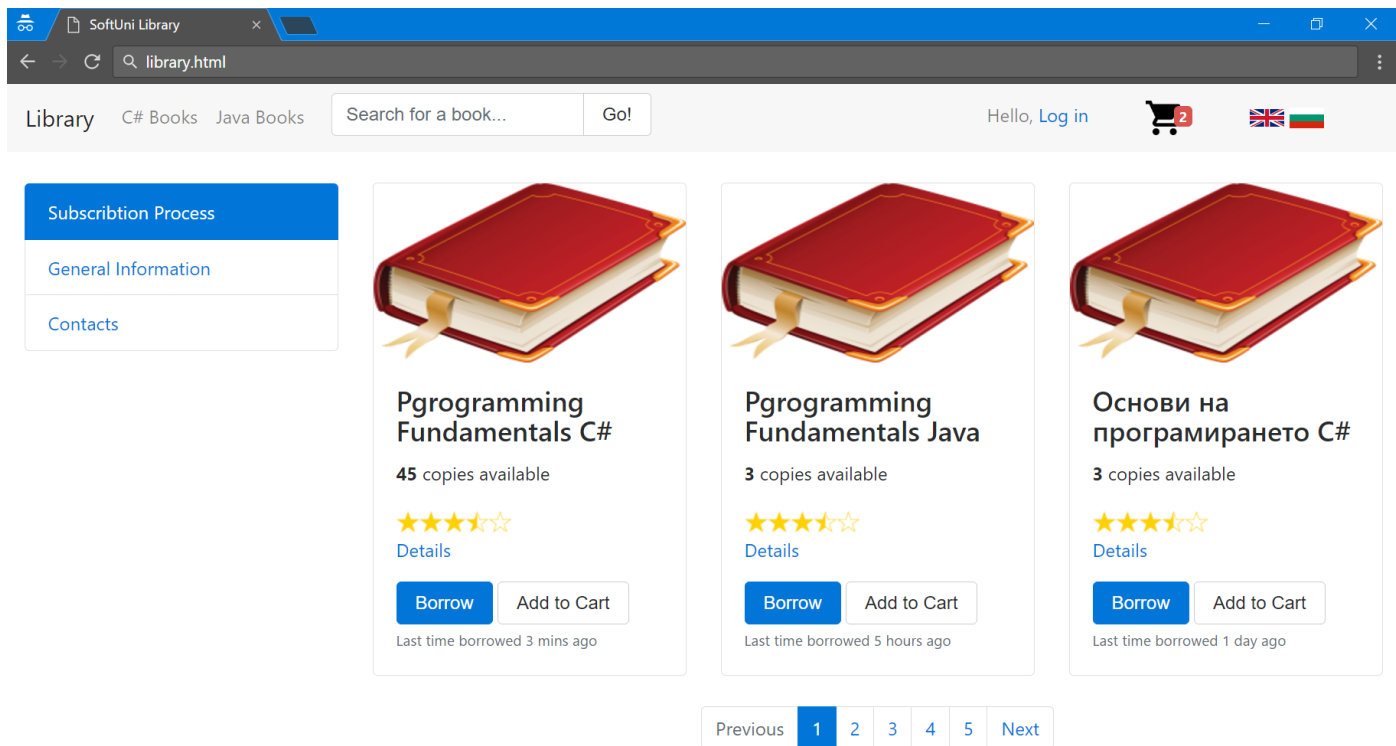
4. Calculator

Using **HTML** and **Bootstrap** and **CSS** create a **calculator** that looks like the one in the picture below.



5. Online Library

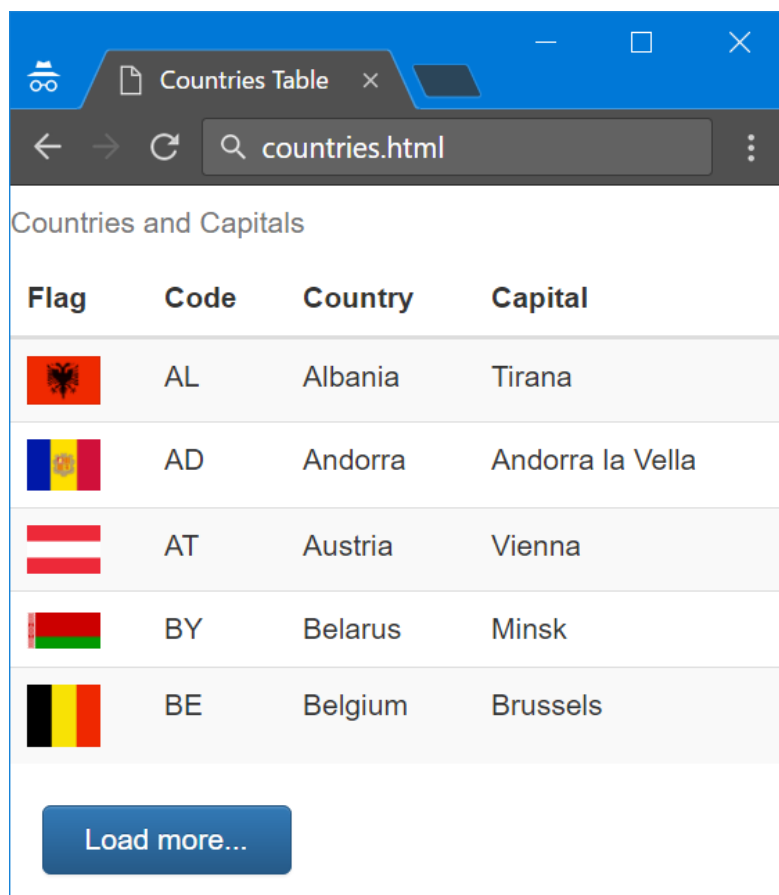
Using HTML and Bootstrap **create a main page for an online library** like the image provided below. Use the provided resources to help you.



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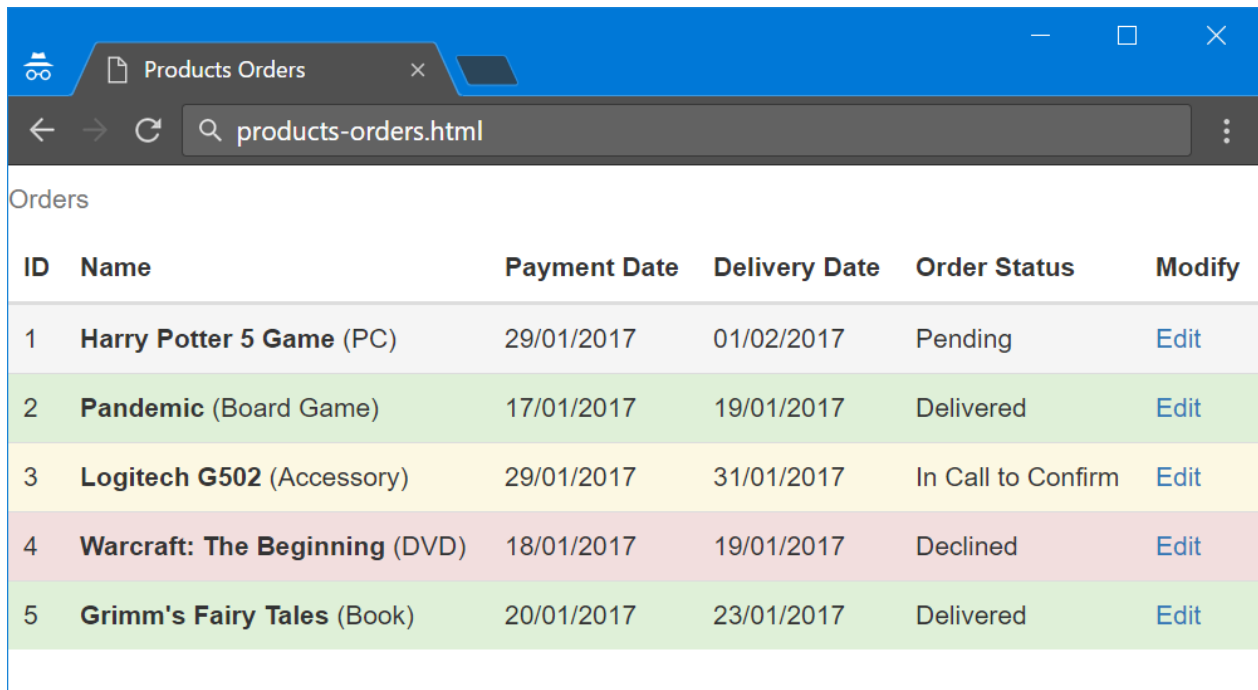
6. Table of Countries

Using HTML and Bootstrap create a table containing several countries and a button to underneath the table. The final result should look like the picture below.



7. Products Delivery Info

Using HTML and Bootstrap create a table containing information about some product orders. Take a look at the picture below for better understanding.



The screenshot shows a web browser window with the title 'Products Orders'. The address bar shows 'products-orders.html'. The page content is titled 'Orders' and displays a table with the following data:

ID	Name	Payment Date	Delivery Date	Order Status	Modify
1	Harry Potter 5 Game (PC)	29/01/2017	01/02/2017	Pending	Edit
2	Pandemic (Board Game)	17/01/2017	19/01/2017	Delivered	Edit
3	Logitech G502 (Accessory)	29/01/2017	31/01/2017	In Call to Confirm	Edit
4	Warcraft: The Beginning (DVD)	18/01/2017	19/01/2017	Declined	Edit
5	Grimm's Fairy Tales (Book)	20/01/2017	23/01/2017	Delivered	Edit

8. *Products Delivery Application

Use the previous task as a starting point but add some functionality to it. Keep information about all orders in a database with 2 tables

- **Orders** - Id, Name, ProductType, PaymentDate, DeliveryDate, Status.
- **Status** - Id, Name. With values **Pending**, **Delivered**, **Declined**, **In Call to Confirm**

Create a C# application that prints the table within the following format:

ID	Name	Payment Date	Delivery Date	Order Status	Modify
Id	Name (Product Type)	PaymentDate	DeliveryDate	Status	Edit

In the table of all orders the row's background should be according to their Order Status:

- **Pending** - gray (active)
- **Delivered** - green (success)
- **Declined** - red (danger)
- **In Call to Confirm** - yellow (warning)

When the Edit link on some row is selected. A Form should appear containing all information for the order of but allowing user to **modify only its status**. The other fields should be read only.

localhost:8080/cgi-bin/p

localhost:8080/cgi-bin/products/EditOrder.exe?id=1

[Back to Orders](#)

Edit Order

Id:

Name:

Type:

Payment Date:

Delivery Date:

Status:

localhost:8080/cgi-bin/p

localhost:8080/cgi-bin/products/EditOrder.exe?id=1

Succesfully edited status of order with ID 1!

[Back to Orders](#)

*Bonus Tasks

- Make also **delivery date to be editable**
- Make the editing **form look prettier** with Bootstrap

9. Contacts Page

Using HTML and Bootstrap create a contact form like the one in the picture below.

Contacts

contacts.html

Contact Us

* Required field

Full Name *

Email *

Confirm Email *

Enter your message for us here... *

Send

10. Register Page

Using html and bootstrap create a calculator that looks like the one in the picture below.

Register

* Required field

First Name *

Last Name *

Email *

Confirm Email *

Password *

Confirm Password *

Clear Register

11. *Register Page Validations

Now let's **validate the form and print informative messages** if any field is not filled or it is filled with wrong data. For example:

- **First/Last name is too long** – if the first/last name is **over 30 symbols** long
- **First/Last name is too short** – if the first/last name is **under 2 symbols** long
- **Invalid email** – if the email is not in format **<user>@<host>.<domain>** (where **user**, **host** and **domain** can only be **alphanumeric characters**)
- **Emails does not match**
- **Invalid password** – if the password is below 4 symbols long and must contain at least 1 letter and 1 number
- **Passwords does not match**
- **Not all required fields are filled** – if some of required fields is not filled

Check the images below to get better understanding how the form should look like if the form is not valid after submission.

Examples

Register

* Required field

* First Name is too long
* Last Name is too short
* Invalid email
* Passwords does not match

firstnameistoolongtobeaccepteditismorethan30symbolsforsure *

m *

invalidEmailsHere *

valid@email.com *

***** *

***** *

Clear Send

Register

* Required field

* Not all required fields are filled
* Passwords does not match

John *

Last Name *

john@email.com *

john@email.com *

***** *

*** *

Clear Send