BOOTSTRAP 4

RESPONSIVE WEB DIZAJN

- Automatsko prilagođavanje sajtova da izgledaju dobro na svim uređajima
- Bootstrap
  - Font end frejmwork za brži i lakši razvoj veb sajtova
  - Koristi HTML, CSS i JavaScript
  - Mobile first strategy
  - Najnovija verzija: Bootstrap 4

PODEŠAVANJE OKRUŽENJA

- CDN
  - Bez instalacije već preko Content Delivery Network-a (mreže za ditribuciju sadržaja)
  - <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0/css/bootstrap.min.css">
- Instaliranje
  - https://getbootstrap.com/
  - Prekompajlirana i minimizovana verzija
  - <link rel = "stylesheet" href = "css/bootstrap.min.css" >

GRID SISTEM

- Kreiranje stranica pomoću redova i kolona
- Maksimum 12 kolona

span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1	span 1
span 4			span 4			span 4					
span 4			span 8								
span 6						span 6					
span 12											

- Grid sistem je responsive i kolone se automatski prilagođavaju veličini ekrana

KAKO RADI GRID SISTEM

- Koristiti redove za horizontalno grupisanje kolona
- Redovi moraju biti unutar container klase da bi se postiglo odgovarajuće poravnanje
- Sadržaj treba da bude unutar kolona, a samo kolone smeju biti direktna deca redova
- Kolone se kreiraju navođenjem koliko od 12 mogućih kolona želimo da zauzmemo

GRID KLASE

- Grid sistem ima 5 klasa:
  - .col- (extra small devices – širina ekrana manja od 576px)
  - .col-sm- (small devices – širina ekrana veća ili jednaka od 576px)
  - .col-md- (medium devices - – širina ekrana veća ili jednaka od 768px)
  - .col-lg- (large devices - – širina ekrana veća ili jednaka od 992px)
  - .col-xl- (xlarge devices - – širina ekrana veća ili jednaka od 1200px)
- Ako želimo da specificiramo istu širinu za male i srednje u ređaje dovoljno je da deifinišemo samo sm

OSNOVNA GRID STRUKTURA

```
<div class = "container">
        <div class = "row">
                <div class = "col-*-*"></div>
                <div class = "col-*-*"></div>
        </div>
        <div class = "row">...</div>
</div>
<div class = "container">
 ....
</div>
```

JEDNAKE KOLONE

```
<div class="row">
  <div class="col">.col</div>
  <div class="col">.col</div>
  <div class="col">.col</div>
</div>
```

CLEARFIX

- Problem ako kolone nisu istih visina

```
<div class = "container">
    <div class = "row" >
      <div class = "col-xs-6 col-sm-3" style = "border:1px solid black;">
         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
            eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut
            enim ad minim veniam, quis nostrud exercitation ullamco laboris
            nisi ut aliquip ex ea commodo consequat.</p>
      </div>
      <div class = "col-xs-6 col-sm-3" style = "border:1px solid black;">
         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
            eiusmod tempor incididunt ut.</p>
      </div>
      <div class="clearfix"></div>
      <div class = "col-xs-6 col-sm-3" style = "border:1px solid black;">
         <p>Ut enim ad minim veniam, quis nostrud exercitation ullamco
            laboris nisi ut aliquip ex ea commodo consequat.</p>
      </div>
      <div class = "col-xs-6 col-sm-3" style = "border:1px solid black;">
         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do
            eiusmod tempor incididunt ut labore et dolore magna aliqua.</p>
      </div>
   </div>
</div>
```

OFFSET KOLONE

- Za pomeranje kolone

```
<div class = "container">
   <h1>Hello, world!</h1>

   <div class = "row" >
      <div class = "col-md-offset-3 col-xs-6 " style = "border:1px solid black;">
         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit.</p>
      </div>
   </div>
</div>
```

- offset-md-3 (v4)

UGNJEŽDAVANJE KOLONA

```
<div class = "container">
   <div class = "row">
      <div class = "col-md-3" style = "border:1px solid black; background-color:red;">
         <h4>First Column</h4>
         <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit.</p>
      </div>
      <div class = "col-md-9" style = "border:1px solid black;background-color:yellow;">
         <h4>Second Column- Split into 4 boxes</h4>
         <div class = "row">
            <div class = "col-md-6" style = "border:1px solid black; background-color:blue;">
               <p>Consectetur art party Tonx culpa semiotics. Pinterest assumenda minim organic quis.</p>
            </div>
            <div class = "col-md-6" style = "border:1px solid black;background-color:blue;">
               <p>sed do eiusmod tempor incididunt ut labore et dolore magnaaliqua. </p>
            </div>
         </div>
         <div class = "row">
            <div class = "col-md-6" style = "border:1px solid black;background-color:green;">
               <p>quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.</p>
            </div>
            <div class = "col-md-6" style = "border:1px solid black;background-color:green;">
               <p>Lorem ipsum dolor sit amet, consectetur adipisicing elit, ut enim ad minim.</p>
            </div>
         </div>
      </div>
   </div>
</div>
```

REĐANJE KOLONA

```
<div class="container">
  <div class="row">
    <div class="col">
    First, but unordered
    </div>
    <div class="col order-12">
     Second, but last
    </div>
    <div class="col order-1">
     Third, but first
    </div>
  </div>
</div>
```

TIPOGRAFIJA (1)

- Bootstrap default:
  - font-size: 16px
  - line-height: 1.5
  - font-family: Helvetica Neue, Helvetica, Arial
- Naslovi
  - <h1>-<h6> - veći font i bolder
- Display naslovi
  - .display-1, .display-2, .display-3, .display-4 – veći font i manji bold
- <small> - sekundarni tekst u naslovu
- <mark> - žuta pozadina i padding

TIPOGRAFIJA (2)

- <abbr> - akronim
- <dl> - deskripciona lista
- <code> - prikaz programskog koda
- <kbd> - prikaz elemenata sa tastature
- <pre> - preformatiran tekst
- Dodatne klase:
  - .font-italic
  - .lead
  - .text-justify
  - .text-capitalize
  - .list-inline

BOJE

- “meaning through colors”
- .text-muted, .text-primary, .text-success, .text-info, .text-warning, .text-danger, .text-secondary, .text-white, .text-dark and .text-light
- Može i nad linkovima -> tamniji hover
- Pozadinske boje:
  - .bg-primary, .bg-success, .bg-info, .bg-warning, .bg-danger, .bg-secondary, .bg-dark and .bg-light.

TABELE (1)

- .table
- .table-striped
- .table-bordered
- .table-hover
- .table-dark
- .table-dark .table-striped

- .thead-dark
- .thead-light
- .table-sm
- .table-responsive

TABELE (2)

- Kontekstualne klase:
  - .table-primary
  - .table-success
  - .table-danger
  - .table-info
  - .table-warning
  - .table-active
  - .table-secondary
  - .table-light
  - .table-dark

SLIKE

- Oblici:
  - .rounded
  - .rounded-circle
  - .img-thumbnail
- Poravnanje
  - .float-right
  - .float-left
- Responsive
  - .img-fluid

JUMBOTRON

- .jumbotron

Jumbotron :)

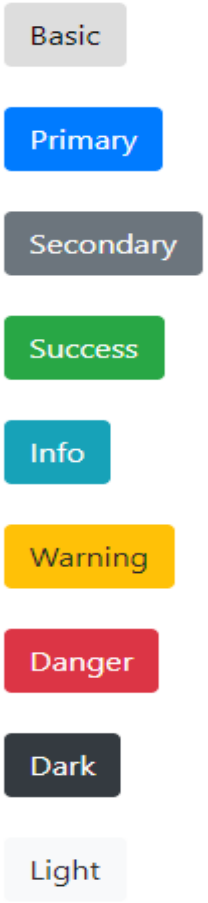
- ```

      <Jumbotron full-width</h1>

  ```
- .page-header
  ```

DUGMAD (1)

- btn
- btn btn-primary
- btn btn-secondary
- btn btn-success
- btn btn-info
- btn btn-warning
- btn btn-danger
- btn btn-dark
- btn btn-light



DUGMAD (2)

- btn btn-outline-primary
- btn btn-outline-secondary
- btn btn-outline-success
- btn btn-outline-info
- btn btn-outline-warning
- btn btn-outline-danger
- btn btn-outline-dark
- btn btn-outline-light

DUGMAD (3)

- Veličine dugmica
  - btn-lg
  - btn-sm
  - btn-block
- active/disabled
- btn-group
- btn-group-vertical

ALERTS (1)

Alerts

Alerts are created with the .alert class, followed by a contextual color classes:

Success! This alert box could indicate a successful or positive action.

Info! This alert box could indicate a neutral informative change or action.

Warning! This alert box could indicate a warning that might need attention.

Danger! This alert box could indicate a dangerous or potentially negative action.

Primary! Indicates an important action.

Secondary! Indicates a slightly less important action.

Dark! Dark grey alert.

Light! Light grey alert.

ALERTS (2)

- Otvaranje: $('.alert').alert()
- Zatvaranje:
  - $().alert('close')
  - ```

      <button type="button" class="close" data-dismiss="alert">×</button>
      Success! Indicates a successful or positive action.

    ```
- Animacija
  - fade
  - show
    ```

GLYPHICONS (V3)

- Sintaksa `<span class="glyphicon glyphicon-name"></span>`
- Envelope icon:

```
<span class="glyphicon glyphicon-envelope"></span>
```

- Search icon:

```
<span class="glyphicon glyphicon-search"></span>
```

- Print icon:

```
<span class="glyphicon glyphicon-print"></span>
```

BEDŽEVI

- Dodatne informacije bilo kom sadržaju
- Prilagođavaju se veličini roditelja
- badge badge-primary
- badge badge-secondary
- badge badge-success
- badge badge-danger
- badge badge-info
- badge badge-light
- badge badge-dark

Primary
Secondary
Success
Danger
Warning
Info
Light
Dark

PROGRESS BAR

- Prikaz koliko je korisnik napredovao u procesu
-
```
<div class="progress">
    <div class="progress-bar" style="width:70%">
     70%
    </div>
  </div>
```
-
```
<div class="progress">
    <div class="progress-bar bg-success progress-bar-striped" style="width:40%;height:20%"></div>
  </div>
```
-
```
<div class="progress-bar progress-bar-striped progress-bar-animated" style="width: 40%"></div>
```

PAGINACIJA

```
<ul class="pagination">
  <li class="page-item"><a class="page-
link" href="#">Previous</a></li>
  <li class="page-item"><a class="page-
link" href="#">1</a></li>
  <li class="page-item active"><a class="page-
link" href="#">2</a></li>
  <li class="page-item"><a class="page-
link" href="#">3</a></li>
  <li class="page-item"><a class="page-
link" href="#">Next</a></li>
</ul>
```

PAGER (V3)

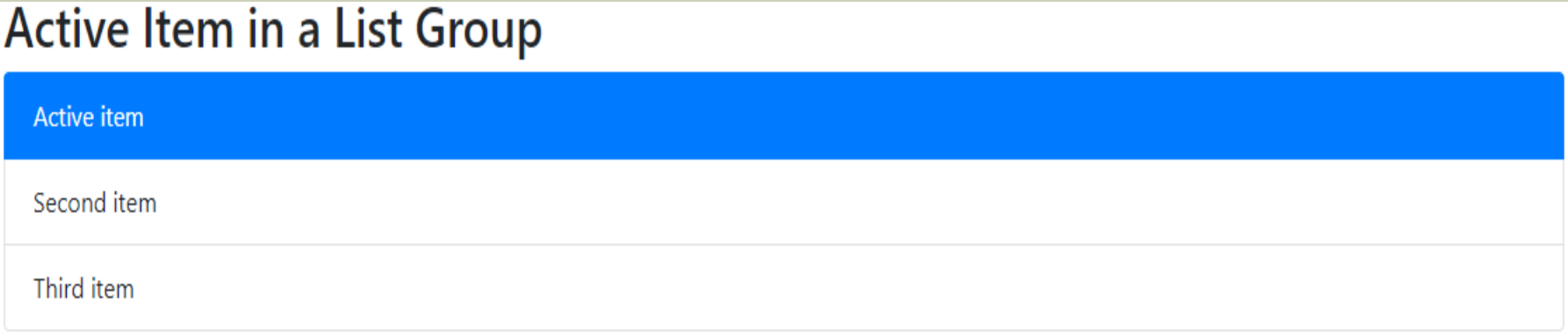
```
<ul class="pager">
  <li><a href="#">Previous</a></li>
  <li><a href="#">Next</a></li>
</ul>
```

BREADCRUMBS

```
<ul class="breadcrumb">
  <li class="breadcrumb-
item"><a href="#">Photos</a></li>
  <li class="breadcrumb-item"><a href="#">Summer
2017</a></li>
  <li class="breadcrumb-
item"><a href="#">Italy</a></li>
  <li class="breadcrumb-item active">Rome</li>
</ul>
```

LINK GRUPE (1)

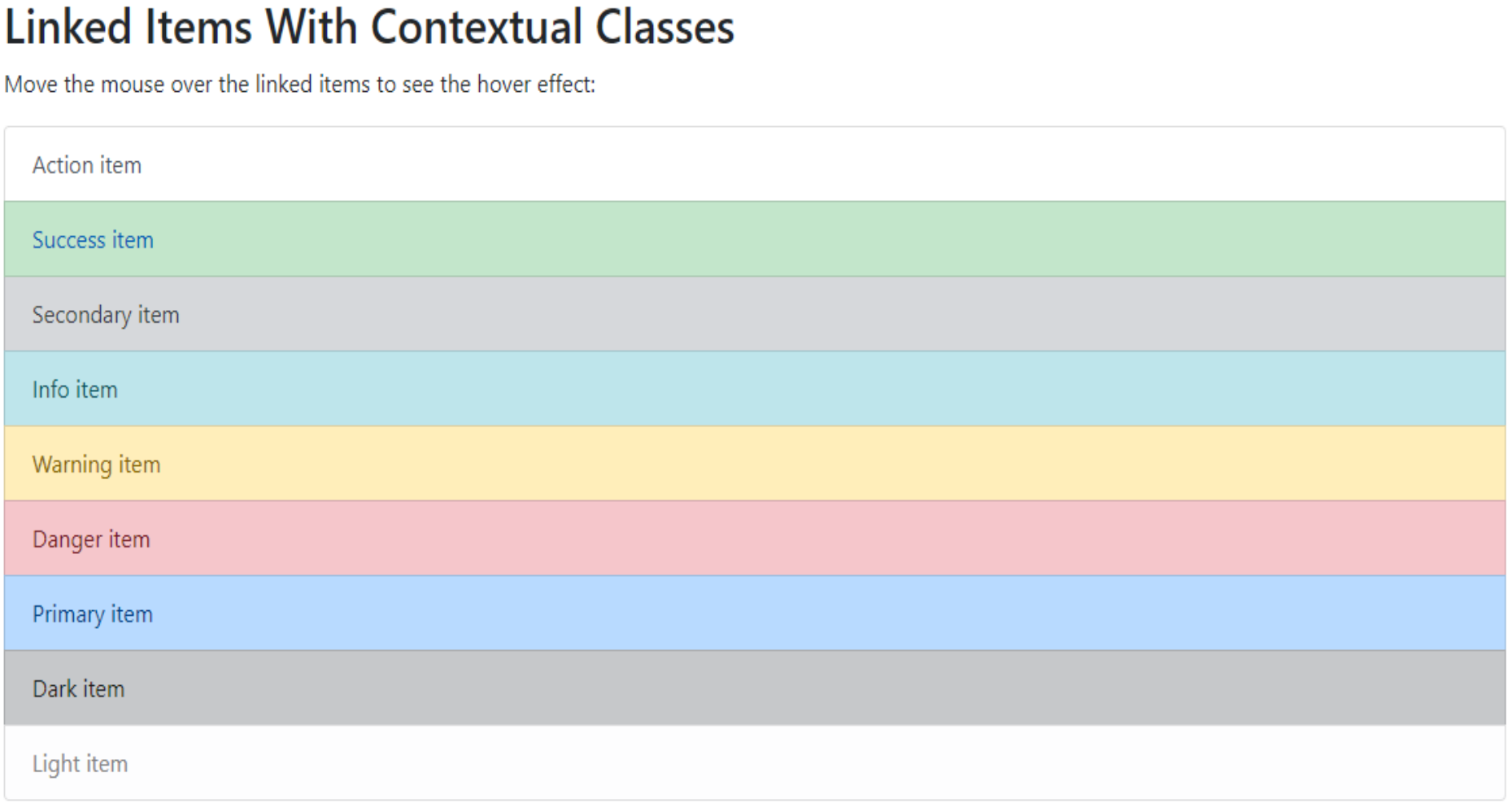
```
<ul class="list-group">
  <li class="list-group-item active">Active item</li>
  <li class="list-group-item">Second item</li>
  <li class="list-group-item">Third item</li>
</ul>
```



LINK GRUPE (2)

```
<div class="list-group">
  <a href="#" class="list-group-item list-group-item-
action">Action item</a>
  <a href="#" class="list-group-item list-group-item-
success">Success item</a>
  <a href="#" class="list-group-item list-group-item-
secondary">Secondary item</a>
  <a href="#" class="list-group-item list-group-item-
info">Info item</a>
  <a href="#" class="list-group-item list-group-item-
warning">Warning item</a>
  <a href="#" class="list-group-item list-group-item-
danger">Danger item</a>
  <a href="#" class="list-group-item list-group-item-
primary">Primary item</a>
  <a href="#" class="list-group-item list-group-item-
dark">Dark item</a>
  <a href="#" class="list-group-item list-group-item-
light">Light item</a>
</div>
```

LINK GRUPE (3)

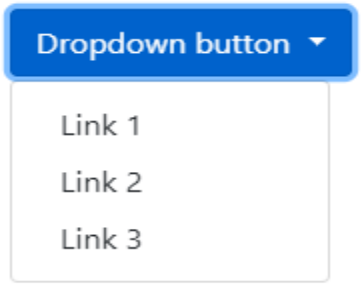

Linked Items With Contextual Classes
Move the mouse over the linked items to see the hover effect:
Action item
Success item
Secondary item
Info item
Warning item
Danger item
Primary item
Dark item
Light item

KARTICE (PANEL V3)

```
<div class="card" style="wid
th:400px">
  <img class="card-img-
top" src="img_avatar1.png" a
lt="Card image">
  <div class="card-body">
    <h4 class="card-
title">John Doe</h4>
    <p class="card-
text">Some example text.</p>
    <a href="#" class="btn
btn-primary">See Profile</a>
  </div>
</div>
```

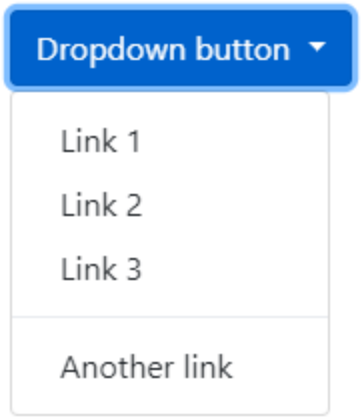
DROPDOWNS (1)

```
<div class="dropdown">
  <button type="button" class="btn btn-primary
dropdown-toggle" data-toggle="dropdown">
    Dropdown button
  </button>
  <div class="dropdown-menu">
    <a class="dropdown-item" href="#">Link 1</a>
    <a class="dropdown-item" href="#">Link 2</a>
    <a class="dropdown-item" href="#">Link 3</a>
  </div>
</div>
```

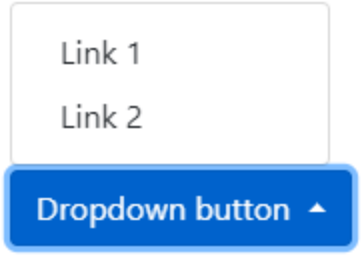


DROPDOWNS (2)

- dropdown-divider



- dropdown-header
- dropup

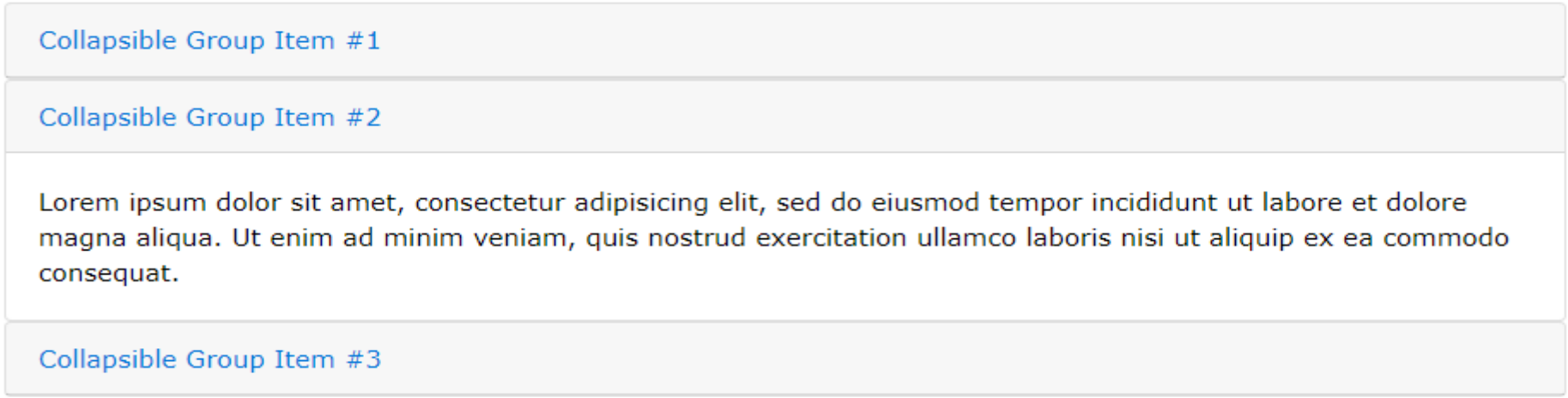


COLLAPSE (1)

- ```
  <button data-toggle="collapse" data-
  target="#demo">Collapsible</button>

  Lorem ipsum dolor text....

  ```
- accordion


  ```

COLLAPSE (2)

```
<div id="accordion">

  <div class="card">
    <div class="card-header">
      <a class="card-link" data-
toggle="collapse" data-
parent="#accordion" href="#collapseOne">
        Collapsible Group Item #1
      </a>
    </div>
    <div id="collapseOne" class="collapse show">
      <div class="card-body">
        Lorem ipsum..
      </div>
    </div>
  </div>
```

COLLAPSE (3)

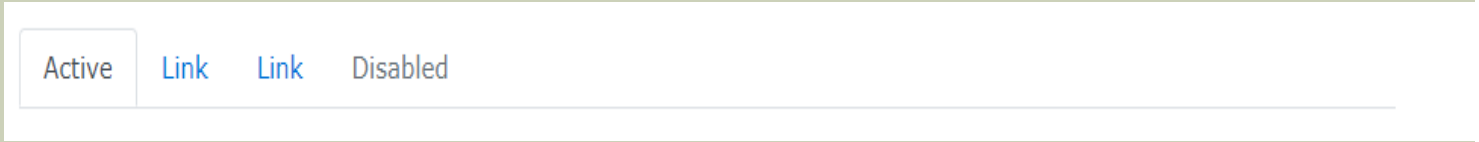
```
    <div class="card">
      <div class="card-header">
        <a class="collapsed card-link" data-
toggle="collapse" data-
parent="#accordion"href="#collapseTwo">
          Collapsible Group Item #2
        </a>
      </div>
      <div id="collapseTwo" class="collapse">
        <div class="card-body">
          Lorem ipsum..
       </div>
      </div>
  </div>
</div>
```

NAVS

- Horizontalni meni
-
```
<ul class="nav justify-content-center">
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link
disabled" href="#">Disabled</a>
  </li>
</ul>
```

TABOVI (1)

```
<ul class="nav nav-tabs">
  <li class="nav-item">
    <a class="nav-link active" href="#">Active</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" href="#">Link</a>
  </li>
  <li class="nav-item">
    <a class="nav-link
disabled" href="#">Disabled</a>
  </li>
</ul>
```

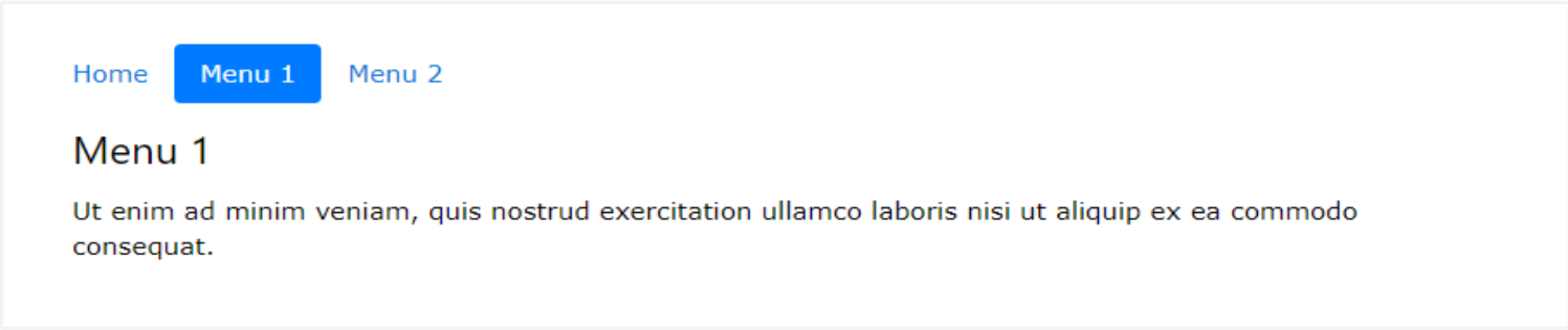


TABOVI (2)

```
<ul class="nav nav-pills">
  <li class="nav-item">
    <a class="nav-link active" data-
toggle="pill" href="#home">Home</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" data-
toggle="pill" href="#menu1">Menu 1</a>
  </li>
  <li class="nav-item">
    <a class="nav-link" data-
toggle="pill" href="#menu2">Menu 2</a>
  </li>
</ul>
```

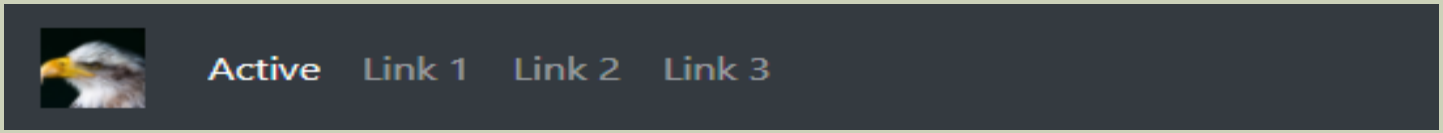
TABOVI (3)

```
<!-- Tab panes -->
<div class="tab-content">
  <div class="tab-pane active container" id="home">...</div>
  <div class="tab-pane container" id="menu1">...</div>
  <div class="tab-pane container" id="menu2">...</div>
</div>
```

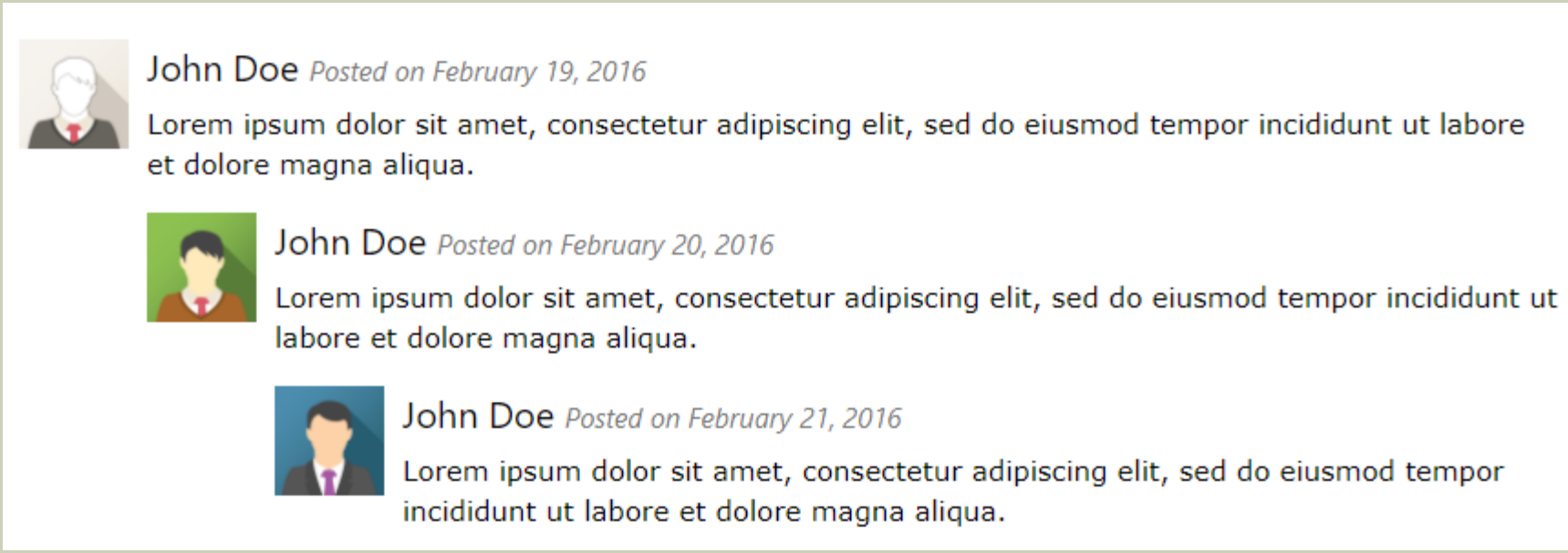


NAVBAR

```
<nav class="navbar navbar-expand-sm bg-dark navbar-dark">
  <a class="navbar-brand" href="#">
    <img src="bird.jpg" alt="Logo" style="width:40px;">
  </a>
  <ul class="navbar-nav">
    <li class="nav-item active">
      <a class="nav-link" href="#">Active</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" href="#">Link</a>
    </li>
    <li class="nav-item">
      <a class="nav-link disabled" href="#">Disabled</a>
    </li>
  </ul>
</nav>
```



MEDIA OBJEKTI



- media
- media-left
- media-body
- Media-heading

SLIDESHOW (1)

```
<div id="demo" class="carousel slide" data-ride="carousel">

  <!-- Indicators -->
  <ul class="carousel-indicators">
    <li data-target="#demo" data-slide-to="0" class="active"></li>
    <li data-target="#demo" data-slide-to="1"></li>
    <li data-target="#demo" data-slide-to="2"></li>
  </ul>

  <!-- The slideshow -->
  <div class="carousel-inner">
    <div class="carousel-item active">
      <img src="la.jpg" alt="Los Angeles">
    </div>
    <div class="carousel-item">
      <img src="chicago.jpg" alt="Chicago">
    </div>
    <div class="carousel-item">
      <img src="ny.jpg" alt="New York">
    </div>
  </div>
```

SLIDESHOW (2)

```
  <!-- Left and right controls -->
  <a class="carousel-control-
prev" href="#demo" data-slide="prev">
    <span class="carousel-control-prev-
icon"></span>
  </a>
  <a class="carousel-control-
next" href="#demo" data-slide="next">
    <span class="carousel-control-next-
icon"></span>
  </a>

</div>
```

MODALI

```
<!-- Button to Open the Modal -->
<button type="button" class="btn btn-primary" data-toggle="modal" data-target="#myModal">
  Open modal
</button>

<!-- The Modal -->
<div class="modal fade" id="myModal">
  <div class="modal-dialog">
    <div class="modal-content">

      <!-- Modal Header -->
      <div class="modal-header">
        <h4 class="modal-title">Modal Heading</h4>
        <button type="button" class="close" data-dismiss="modal">&times;</button>
      </div>

      <!-- Modal body -->
      <div class="modal-body">
        Modal body..
      </div>

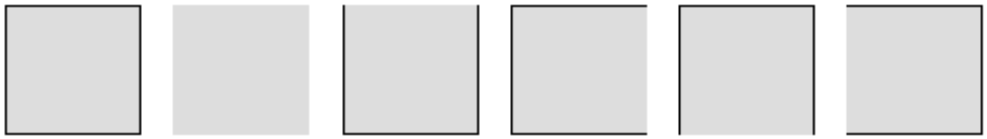
      <!-- Modal footer -->
      <div class="modal-footer">
        <button type="button" class="btn btn-danger" data-dismiss="modal">Close</button>
      </div>

    </div>
  </div>
</div>
```

POMOĆNE KLASE (1)

- Border

Example



Example

```
<span class="border"></span>
<span class="border border-0"></span>
<span class="border border-top-0"></span>
<span class="border border-right-0"></span>
<span class="border border-bottom-0"></span>
<span class="border border-left-0"></span>
```

POMOĆNE KLASE (2)

- Border color

Example

Example

```
<span class="border border-primary"></span>
<span class="border border-secondary"></span>
<span class="border border-success"></span>
<span class="border border-danger"></span>
<span class="border border-warning"></span>
<span class="border border-info"></span>
<span class="border border-light"></span>
<span class="border border-dark"></span>
<span class="border border-white"></span>
```

POMOĆNE KLASE (3)

- Border radius

Example

Example

```
<span class="rounded"></span>
<span class="rounded-top"></span>
<span class="rounded-right"></span>
<span class="rounded-bottom"></span>
<span class="rounded-left"></span>
<span class="rounded-circle"></span>
<span class="rounded-0"></span>
```

Try it Yourself »

POMOĆNE KLASE (4)

- Width

Example

Width 25%

Width 50%

Width 75%

Width 100%

Max Width 100%

Example

```
<div class="w-25 bg-warning">Width 25%</div>
<div class="w-50 bg-warning">Width 50%</div>
<div class="w-75 bg-warning">Width 75%</div>
<div class="w-100 bg-warning">Width 100%</div>
<div class="mw-100 bg-warning">Max Width 100%</div>
```

POMOĆNE KLASE (5)

- Height

Example

Example

```
<div style="height:200px;background-color:#ddd">
  <div class="h-25 bg-warning">Height 25%</div>
  <div class="h-50 bg-warning">Height 50%</div>
  <div class="h-75 bg-warning">Height 75%</div>
  <div class="h-100 bg-warning">Height 100%</div>
  <div class="mh-100 bg-warning" style="height:500px">Max Height 100%</div>
</div>
```

VEŽBANJE (1)

My site

This is my first site and I will use Bootstrap 4!

Firstname	Jelica
Lastname	Cincovic
Date of birth	04.12.1994.
Mail	jelica@etf.rs

Obrazovanje
Cras justo odio
Dapibus ac facilisis in
Vestibulum at eros

Iskustvo
Cras justo odio
Dapibus ac facilisis in
Vestibulum at eros

Vestine
Cras justo odio
Dapibus ac facilisis in
Vestibulum at eros

Osobine
Cras justo odio
Dapibus ac facilisis in
Vestibulum at eros

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VEŽBANJE (2)

MySite Home About Contact

News

World Science Health

The incident took place yesterday in the evening, near one of the nightclubs in sight of many witnesses. The police spokesperson did not want to give us any information. We got the story was from the participants of a party currently present in front of the club. The man reportedly refused to present his id and then attacked the policeman who grabbed him by the hand. 'A fight ensued after which the policeman dropped to the ground' says a woman, one of the witnesses of the incident. 'His partner tried to help him but she turned out to be helpless too'. The incident took place yesterday in the evening, near one of the nightclubs in sight of many witnesses. The police spokesperson did not want to give us any information. We got the story was from the participants of a party currently present in front of the club. The man reportedly refused to present his id and then attacked the policeman who grabbed him by the hand. 'A fight ensued after which the policeman dropped to the ground' says a woman, one of the witnesses of the incident. 'His partner tried to help him but she turned out to be helpless too'.

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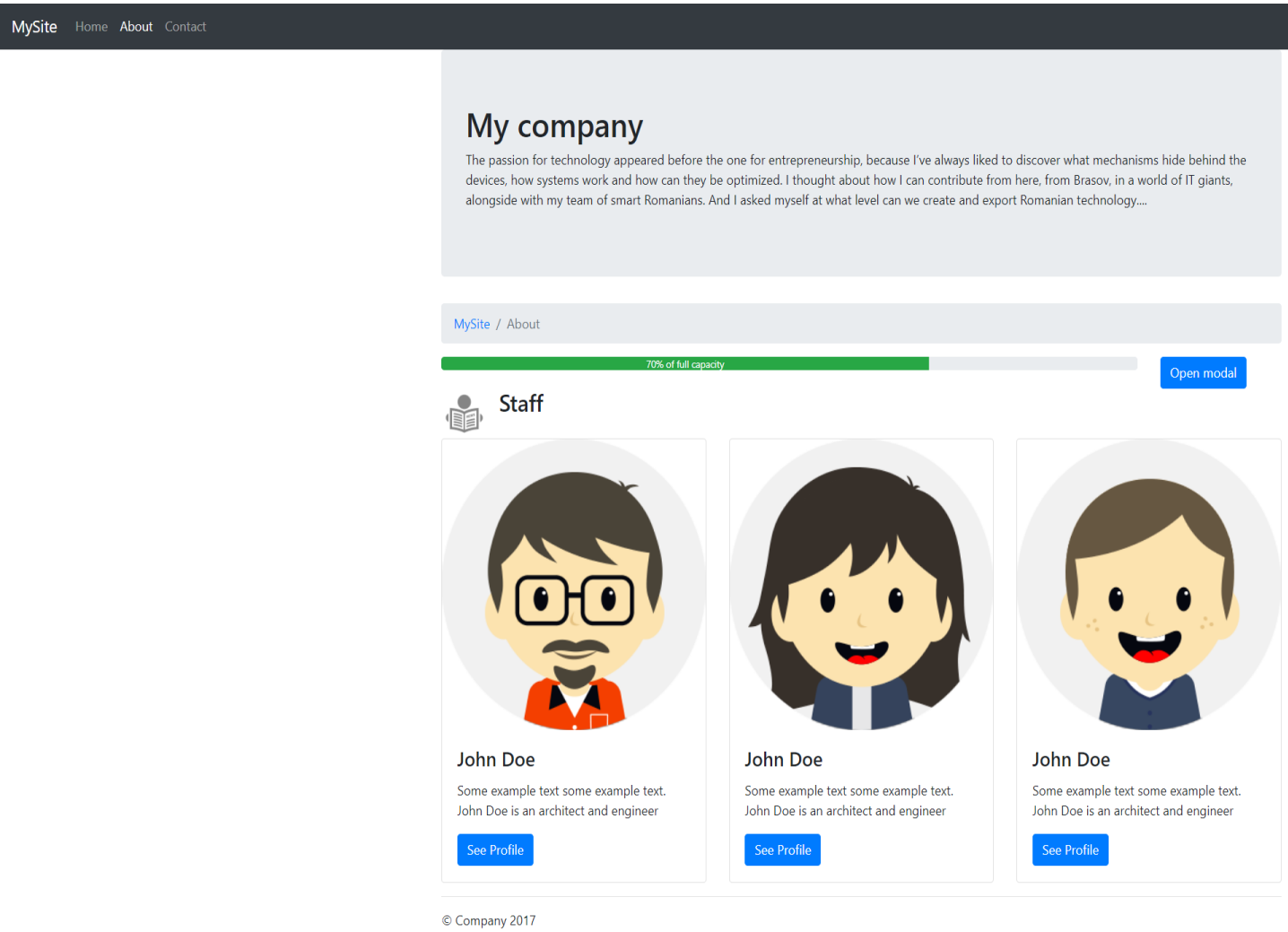
VEŽBANJE (2)


MySite
Home
About
Contact
My company
The passion for technology appeared before the one for entrepreneurship, because I've always liked to discover what mechanisms hide behind the devices, how systems work and how can they be optimized. I thought about how I can contribute from here, from Brasov, in a world of IT giants, alongside with my team of smart Romanians. And I asked myself at what level can we create and export Romanian technology....
MySite / About
70% of full capacity
Open modal
Staff
John Doe
Some example text some example text. John Doe is an architect and engineer
See Profile
John Doe
Some example text some example text. John Doe is an architect and engineer
See Profile
John Doe
Some example text some example text. John Doe is an architect and engineer
See Profile
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VEŽBANJE (2)

MySite Home About Contact

Contact information

Unfortunately we do not have phone number yet

Firstname	Lastname	Email
John	Doe	john@example.com
Mary	Moe	mary@example.com
July	Dooley	july@example.com

Map

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