

Dokumentacija sajta iz predmeta Praktikum iz Web Programiranja

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Tema i opis projekta

Sajt predstavlja online knjižaru gde korisnici mogu da dobiju informacije o knjigama, da iste komentarisu ili kupe.

Svi podaci se izvlače iz JSON fajlova.

Na početnoj strani vide se najprodavanije knjige, njihove slike i kratak opis. Na strani books vide se sve knjige sa slikom, naslovom i cenom te knjige, klikom na neku od knjiga otvara se ta knjiga sa njenim opisom i formom gde korisnici mogu da napišu svoj komentar za tu konkretnu knjigu.

Na strani za kontakt se nalazi forma preko koje korisnici mogu da kontaktiraju administratora.

Pri unosu podataka u bilo koju od formi podaci se validiraju uz pomoc validatora, a podatke nije moguće poslati ako nisu ispunjeni svi uslovi.

Na strani autor vide se osnovni podaci o autoru koji su skladišteni u json objektu i na toj strani podaci su formatirani korišćenjem pipe-ova.

Podaci se do stranica dopremaju korišćenjem servisa.

Koristi se rutiranje i svaka od komponenti se nalazi na posebnoj ruti.

Korišćen je html template.

Index.html

```
<!doctype html>
<html>
<head>
<meta charset="utf-8">
<title>Betelgeuse Bookstore</title>
<base href="/">

<meta name="viewport" content="width=device-width, initial-scale=1">
<link href="//code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css"
rel="stylesheet" type="text/css">
<link href="//fonts.googleapis.com/css?family=Titillium+Web:700|
Source+Serif+Pro:400,700|Merriweather+Sans:400,700|
Source+Sans+Pro:400,300,600,700,300italic,400italic,600italic,700italic"
rel="stylesheet" type="text/css">
<link rel="stylesheet" href="assets/css/main.css">
<link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
crossorigin="anonymous">

</head>
<body class="is-preload">
  <div id="page-wrapper">

    <!-- MAIN SECTION -->
    <app-root></app-root>
    <!-- END OF MAIN -->

  </div>
  <div id="footer">
    <div class="container">
      <!-- Icons -->
      <ul class="icons">
        <li><a href="https://twitter.com/BogdanovicAdam" class="icon brands fa-twitter"><span
class="label">Twitter</span></a></li>
        <li><a href="https://www.facebook.com/bogdanovicadam" class="icon brands fa-facebook-
f"><span class="label">Facebook</span></a></li>
        <li><a href="#" class="icon brands fa-github"><span
class="label">GitHub</span></a></li>
      </ul>
    </div>
  </div>
</body>
</html>
```

```
<li><a href="https://www.linkedin.com/in/adam-bogdanovic-965569123" class="icon brands fa-linkedin-in"><span class="label">LinkedIn</span></a></li>
<li><a href="https://plus.google.com/105465187661642368702" class="icon brands fa-google-plus-g"><span class="label">Google+</span></a></li>
</ul>
```

```
<!-- Copyright -->
<div class="copyright">
<ul class="menu">
<li>&copy; Betelgeuse Bookstore. All rights reserved</li><li>Design: Adam B.</li>
</ul>
</div>
```

```
</div>
```

```
</div>
```

```
<!-- Scripts -->
<script src="assets/js/jquery.min.js"></script>
<!--<script src="assets/js/jquery.dropotron.min.js"></script>-->
<script src="assets/js/browser.min.js"></script>
<script src="assets/js/breakpoints.min.js"></script>
<script src="assets/js/util.js"></script>
<script src="assets/js/main.js"></script>
```

```
</body>
</html>
```

Komponente

App Komponenta:

HTML

```
<!-- Header -->
<div id="header">

<!-- Logo -->
<h1><a routerLink="" routerLinkActive="active" id="logo">Betelgeuse Bookstore</a></h1>

<!-- Nav -->
<nav id="nav">
<ul>
<li id="home_link" class="links current"><a routerLink=""
routerLinkActive="active">Home</a></li>
<li id="books_link" class="links"><a routerLink="/books"
routerLinkActive="active">Books</a></li>
<li id="contact_link" class="links"><a routerLink="/contact"
routerLinkActive="active">Contact</a></li>
<li id="author_link" class="links"><a routerLink="/author"
routerLinkActive="active">Author</a></li>
<!--<li><a href="no-sidebar.html">No Sidebar</a></li>-->
</ul>
</nav>

<!-- Banner -->
<section id="banner">
<header>
<h2><a>Finding good homes for books since 1972.</a></h2>
<a routerLink="/contact" routerLinkActive="active" class="button">Learn More</a>
</header>
</section>

<section class="wrapper style1">
<div class="container">
<router-outlet></router-outlet>
</div>
</section>

</div>
```

app-component.ts

```
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent implements OnInit {
  title:string = 'bookstore-project';

  ngOnInit(){
  }
}
```

app-module.ts

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { FormsModule, ReactiveFormsModule } from '@angular/forms';

import { AppComponent } from './app.component';
import { BooksComponent } from './books/books.component';
import { BestsellingComponent } from './bestselling/bestselling.component';
import { BookComponent } from './books/book/book.component';
import { BestsellingBookComponent } from './bestselling/bestselling-book/bestselling-book.component';
import { ContactComponent } from './contact/contact.component';
import { AuthorComponent } from './author/author.component';

const appRoutes: Routes = [
  { path: 'bestselling', component: BestsellingComponent },
  { path: 'books', component: BooksComponent },
  { path: 'book/:id', component: BookComponent },
  { path: '',
    redirectTo: '/bestselling',
    pathMatch: 'full'
  },
  { path: 'contact', component: ContactComponent },
  { path: 'author', component: AuthorComponent },
];
```

```
@NgModule({
  declarations: [
    AppComponent,
    BooksComponent,
    BestsellingComponent,
    BookComponent,
    BestsellingBookComponent,
    ContactComponent,
    AuthorComponent,
  ],
  imports: [
    BrowserModule,
    RouterModule.forRoot(
      appRoutes,
      { enableTracing: true }
    ),
    FormsModule,
    ReactiveFormsModule,
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

Bestselling Komponenta:

HTML

```
<div id="bestselling_books">
<h2>Bestsellers</h2>
<br/><br/>
<div class="bestselling_book" *ngFor="let bestselling_book of bestselling_books">
<div class="bestselling_book_left col text-center justify-content-center align-self-center">
<img src='.././../assets/{{ bestselling_book.img }}' alt='{{ bestselling_book.name }}'/>
</div>
<div class="bestselling_book_right">
<h3>{{ bestselling_book.name }}</h3>
<h6>By {{bestselling_book.author }}</h6>
<br/>
<p>{{ bestselling_book.description }}</p>
</div>
</div>
</div>
```

CSS

```
#bestselling_books h2 {
color: #87e8a7;
}
```

```
.bestselling_book {
min-height: 250px;
border: 1px solid gray;
overflow: overlay;
}
```

```
.bestselling_book_left, .bestselling_book_right {
display: inline-block;
}
```

```
.bestselling_book_left {
float: left;
width: 34%;
vertical-align: middle;
}
```

```
.bestselling_book_right {
```



```
float: right;
width: 65%;
}
```

```
.bestselling_book_left img {
height: 240px;
width: 200px;
vertical-align: middle;
}
```

bestseling.component.ts

```
import { Component, OnInit } from '@angular/core';
import { BestsellersService } from '../services/bestsellers.service';
```

```
@Component({
selector: 'app-bestselling',
templateUrl: './bestselling.component.html',
styleUrls: ['./bestselling.component.css']
})
export class BestsellingComponent implements OnInit {
bestselling_books;
constructor(
private bestsellersService : BestsellersService,
) { }
```

```
ngOnInit() {
this.bestselling_books = this.bestsellersService.get_bestselling();
}

}
```

Books Komponenta:

HTML

```
<div id="books">
<h2>Books</h2>
<br/><br/>
<div class="book" *ngFor="let book of books">
<a routerLink="/book/{{ book.id }}" routerLinkActive="active">
<h3>{{ book.name }}</h3>
<img src='.././../assets/{{ book.img }}' alt='book.name' />
</a>
<h6>by {{ book.author }}</h6>
<span>Price {{ book.price }} $</span><br/>
<button type="button" class=".add">Add to basket</button>
</div>
</div>
```

CSS

```
#books h2 {
color: #87e8a7;
}
```

```
.book {
width: 25%;
display: inline-block;
margin-bottom: 2%;
}
```

```
.book h3 {
color: #10bbd5;
}
```

```
.book img {
height: 240px;
}
```

```
.book span {
color: #10bbd5;
}
```

```
.add {
height: 40px;
```

```

width: 150px;
border: 0;
margin: 0;
background-color: #4c394e !important;
color: #fff;
text-decoration: none;
text-align: center;
border-radius: .6rem;
box-shadow: none;
cursor: pointer;
font-weight: bold;
box-shadow: none;
}

```

books.component.ts

```

import { Component, OnInit } from '@angular/core';
import { BooksService } from '../services/books.service';

@Component({
  selector: 'app-books',
  templateUrl: './books.component.html',
  styleUrls: ['./books.component.css']
})
export class BooksComponent implements OnInit {

  books;

  constructor(
    private booksService : BooksService
  ) { }

  ngOnInit() {
    this.books = this.booksService.get_books();
  }

}

```

Book Komponenta:

HTML

```
<div id="indiv_book">
<div class="indiv_book_left">
<img src='../.../assets/{{ book.img }}' alt='{{ book.name }}'/>
</div>
<div class="indiv_book_right">
<h3>{{ book.name }}</h3>
<h6>by {{ book.author }}</h6>
<p>{{ book.description }}</p>
</div>
</div>
<br/>
<div id="book_coment_section">
<h4>Comment Section:</h4>
<div class="book_comment" *ngFor="let comment of book.comments">
<h5>User: {{ comment.username }}</h5>
<span>Comment: {{ comment.comment }}</span>
</div>
</div>
<br/>
<div id="book_form">
<h5>Leave a comment about this book</h5>
<form [formGroup]="commentForm">
<label>Username: </label>
<input type="text" id="username" class="form-control" formControlName="username">
<span *ngIf="!commentForm.get('username').valid &&
commentForm.get('username').touched" class="help-block">Please enter a username</span>
<br/>
<label>Email: </label>
<input type="text" id="email" class="form-control" formControlName="email">
<span *ngIf="!commentForm.get('email').valid && commentForm.get('email').touched"
class="help-block">Please enter a email</span>
<br/>
<label>Message: </label>
<textarea id="message" class="form-control" formControlName="message"></textarea>
<span *ngIf="!commentForm.get('message').valid && commentForm.get('message').touched"
class="help-block">Please enter a message</span><br/>
<input type="hidden" id="id" class="form-control" formControlName="id"
value="{{ book.id }}">
<button (click)="addComment()" [disabled]="!commentForm.valid" class="btn btn-
primary">Submit</button>
</form>
</div>
```

CSS

```
#indiv_book {  
  min-height: 250px;  
  overflow: overlay;  
}
```

```
.indiv_book_left, .indiv_book_right {  
  display: inline-block;  
}
```

```
.indiv_book_left {  
  float: left;  
  width: 34%;  
}
```

```
.indiv_book_right {  
  float: right;  
  width: 65%;  
}
```

```
.indiv_book_left img {  
  height: 240px;  
  width: 200px;  
}
```

```
.indiv_book_right h3 {  
  color: #10bbd5;  
}
```

```
#book_form {  
  display: block;  
  text-align: center;  
}
```

book.component.ts

```
import { Component, OnInit } from '@angular/core';  
import { Router, ActivatedRoute, ParamMap } from '@angular/router';  
import { switchMap } from 'rxjs/operators';  
import { BooksService } from '../services/books.service';  
import { FormGroup, FormControl, Validators } from '@angular/forms';
```

```
@Component({  
  selector: 'app-book',
```

```

templateUrl: './book.component.html',
styleUrls: ['./book.component.css']
})
export class BookComponent implements OnInit {

  id;
  book;
  books;
  commentForm: FormGroup;

  addComment()
  {
    var book_id = this.commentForm.get('id').value;
    var username = this.commentForm.get('username').value;
    var email = this.commentForm.get('email').value;
    var comment = this.commentForm.get('message').value;
    this.books[this.id-1].comments.push({"username" : username, "email" : email, "comment"
: comment});
    console.log(this.books[this.id-1].comments);
  }

  constructor(
    private route: ActivatedRoute,
    private router: Router,
    private booksService : BooksService,
  ) { }

  ngOnInit() {
    this.id = this.route.snapshot.paramMap.get('id');
    this.book = this.booksService.get_book_by_id(this.id);
    this.books = this.booksService.get_books();
    this.commentForm = new FormGroup({
      'id' : new FormControl(null),
      'username' : new FormControl(null, Validators.required),
      'email' : new FormControl(null, [Validators.required, Validators.email]),
      'message': new FormControl(null, Validators.required)
    });
  }

}

```

Contact Komponenta:

HTML

```
<div id="contact">
<h2>If you have any comment, suggestion or critique leave us a message</h2>
<br/><br/>
<span id="feedback" #feedback></span>
<br/>
<form [formGroup]="contactForm">
<label>Username: </label>
<input type="text" id="username" class="form-control" formControlName="username">
<span *ngIf="!contactForm.get('username').valid &&
contactForm.get('username').touched" class="help-block">Please enter a username</span>
<br/>
<label>Email: </label>
<input type="text" id="email" class="form-control" formControlName="email">
<span *ngIf="!contactForm.get('email').valid && contactForm.get('email').touched"
class="help-block">Please enter a email</span>
<br/>
<label>Message: </label>
<textarea id="message" class="form-control" formControlName="message"></textarea>
<span *ngIf="!contactForm.get('message').valid && contactForm.get('message').touched"
class="help-block">Please enter a message</span>
<br/>
<button (click)="saveMessage()" [disabled]="!contactForm.valid" class="btn btn-
primary">Submit</button>
</form>
</div>
```

CSS

```
#contact h2 {
color: #10bbd5;
}

#feedback {
color: #87e8a7;
}
```

contact.component.css

```
import { Component, OnInit } from '@angular/core';
import { FormGroup, FormControl, Validators } from '@angular/forms';

@Component({
  selector: 'app-contact',
  templateUrl: './contact.component.html',
  styleUrls: ['./contact.component.css']
})
export class ContactComponent implements OnInit {

  contactForm: FormGroup;

  saveMessage()
  {
    var username = this.contactForm.get('username').value;
    var email = this.contactForm.get('email').value;
    var message = this.contactForm.get('message').value;
    var feedback = document.getElementById("feedback");
    feedback.innerHTML = "Message successfully sent by " + username;
  }

  constructor() { }

  ngOnInit() {
    this.contactForm = new FormGroup({
      'id' : new FormControl(null),
      'username' : new FormControl(null, Validators.required),
      'email' : new FormControl(null, [Validators.required, Validators.email]),
      'message': new FormControl(null, Validators.required)
    });
  }
}
```


Author Komponenta:

HTML

```
<div id="author">
<h3>Author</h3>
<br/><br/>
<div id="author_left">

</div>
<div id="author_right">
<p><strong>Fullname:</strong><em> {{ author.first_name + " " +
author.last_name }}</em></p>
<p><strong>Place of birth:</strong><em> {{ author.birth_place }}</em></p>
<p><strong>Age:</strong><em> {{ author.age }}</em></p>
<p><strong>Occupation:</strong><em> {{ author.occupation }}</em></p>
<p><strong>Student at:</strong><em> {{ author.college | uppercase }}</em></p>
<p><strong>Started studies:</strong><em> {{ author.started_studies | date }}</em></p>
</div>
</div>
```

CSS

```
#author {
min-height: 250px;
overflow: overlay;
width: 80%;
}
```

```
#author h3 {
color: #10bbd5;
}
```

```
#author_left, #author_right {
display: inline-block;
}
```

```
#author_left {
float: left;
width: 34%;
}
```

```
#author_right {
width: 65%;
```

```
}
```

```
#author_left img {  
height: 240px;  
width: 200px;  
}
```

author.component.ts

```
import { Component, OnInit } from '@angular/core';
```

```
@Component({  
  selector: 'app-author',  
  templateUrl: './author.component.html',  
  styleUrls: ['./author.component.css']  
})
```

```
export class AuthorComponent implements OnInit {
```

```
  author = {"first_name" : "Adam", "last_name" : "Bogdanovic", "birth_place": "Bajina  
Basta", "age": 22, "image": "images/author.jpg", "occupation": "Student", "college":  
"ICT College of Vocational Studies", "started_studies": "10.1.2016"};
```

```
  constructor() { }
```

```
  ngOnInit() {  
  }
```

```
}
```

Servisi

books.service.ts

```
import { Injectable } from '@angular/core';
import books from '../books.json';

@Injectable({
  providedIn: 'root'
})
export class BooksService {

  constructor() { }
  books = books;
  get_books()
  {
    return this.books;
  }

  get_book_by_id(id:number)
  {
    return books[id-1]
  }
}
```

bestsellers.service.ts

```
import { Injectable } from '@angular/core';
import bestselling from '../bestselling.json';

@Injectable({
  providedIn: 'root'
})
export class BestsellersService {

  constructor() { }

  bestselling = bestselling;

  get_bestselling()
  {
    return this.bestselling;
  }
}
```

JSON

bestselling.json

```
[
{
  "id": 1,
  "name": "Hitchhiker's Guide to the Galaxy",
  "img": "images/TheHitchhikersGuide.jpg",
  "author": "Douglas Adams",
  "description": "The Hitchhiker's Guide to the galaxy (sometimes reffered to as HG2G, HHGTTG or H2G2) is a comedy science fiction series created by Douglas Adams. Originally a radio comedy broadcast on BBC Radio 4 in 1978, it was later adapted to other formats, including stage shows, novels, comic books, a 1981 TV series, a 1984 video game, and 2005 feature film. A prominent series in British popular culture, The Hitchhiker's Guide to the Galaxy has become an international multi-media phenomenon; the novels are the most widely distributed, having been translated into more than 30 languages by 2005."
},
{
  "id": 2,
  "name": "Master and Margarite",
  "img": "images/MasterAndMargarite.jpg",
  "author": "Mikhail Bulgakov",
  "description": "The novel alternates between two settings. The first is 1930s Moscow, where Satan appears at the Patriarch Ponds in the guise of 'Professor' Woland, a mysterious gentleman 'magician' of uncertain origin. He arrives with a retinue that includes the grotesquely dressed valet Koroviev; the mischievous, gun-happy, fast-talking black cat Behemoth; the fanged hitman Azazello and the witch Hella. They wreak havoc targeting the literary elite and its trade union MASSOLIT. Its privileged HQ is Griboyedov's house. The association is made up of corrupt social climbers and their women (wives and mistresses alike), bureaucrats, profiteers, and, more generally, skeptics of the human spirit. The second setting is the Jerusalem of Pontius Pilate, described by Woland in his conversations with Berlioz and later reflected in the Master's novel. This part of the novel concerns Pontius Pilate's trial of Yeshua Hantsri, his recognition of an affinity with, and spiritual need for, Yeshua, and his reluctant but resigned submission to Yeshua's execution."
},
{
  "id": 3,
  "name": "Fight Club",
  "img": "images/FightClub.jpg",
  "author": "Chuck Palahniuk",
  "description": "Fight Club is a 1996 novel by Chuck Palahniuk. It follows the experiences of an unnamed protagonist struggling with insomnia. Inspired by his
```

doctor's exasperated remark that insomnia is not suffering, the protagonist finds relief by impersonating a seriously ill person in several support groups. Then he meets a mysterious man named Tyler Durden and establishes an underground fighting club as radical psychotherapy. In 1999, director David Fincher adapted the novel into a film of the same name, starring Brad Pitt and Edward Norton. The film acquired a cult following despite lower than expected box-office results. The film's prominence heightened the profile of the novel and that of Palahniuk. The sequel Fight Club 2 was released in comic book form in May 2015."

},

{

"id": 5,

"name": "The Catcher in the Rye",

"img": "images/Catcher.jpg",

"author": "J. D. Salinger",

"description": "The Catcher in the Rye is a 1951 novel by J. D. Salinger. A classic novel originally published for adults, it has since become popular with adolescent readers for its themes of teenage angst and alienation. It has been translated into almost all of the world's major languages. Around 1 million copies are sold each year with total sales of more than 65 million books. The novel's protagonist Holden Caulfield has become an icon for teenage rebellion. The novel also deals with complex issues of innocence, identity, belonging, loss, and connection"

},

{

"id": 5,

"name": "Necronomicon",

"img": "images/Necronomicon.jpg",

"author": "H. P. Lovecraft",

"description": "The Necronomicon is a fictional grimoire (textbook of magic) appearing in the stories by horror writer H. P. Lovecraft and his followers. It was first mentioned in Lovecraft's 1924 short story 'The Hound', written in 1922, though its purported author, the 'Mad Arab' Abdul Alhazred, had been quoted a year earlier in Lovecraft's 'The Nameless City'. Among other things, the work contains an account of the Old Ones, their history, and the means for summoning them."

},

{

"id": 6,

"name": "The Last Wish",

"img": "images/TheLastWish.jpg",

"author": "Andrzej Sapkowski",

"description": "The Last Wish (Polish: Ostatnie życzenie) is the first (in its fictional chronology; published second in original Polish) of the two collections of short stories (the other being The Sword of Destiny) preceding the main Witcher Saga, written by Polish fantasy writer Andrzej Sapkowski. The first Polish edition was published in 1993, the first English edition in 2007. The book has also been translated into several other languages."

},

{

```
"id": 7,  
"name": "Cat's Cradle",  
"img": "images/CatsCradle.jpg",  
"author": "Kurt Vonnegut",  
"description": "Cat's Cradle is the fourth novel by American writer Kurt Vonnegut, first published in 1963. It explores issues of science, technology, and religion, satirizing the arms race and many other targets along the way. After turning down his original thesis in 1947, the University of Chicago awarded Vonnegut his master's degree in anthropology in 1971 for Cat's Cradle. The title of the book derives from the string game 'cat's cradle'. Early in the book, the character Felix Hoenikker (a fictional co-inventor of the atom bomb) was playing cat's cradle when the bomb was dropped, and the game is later referred to by his son, Newton Hoenikker."  
},  
{  
"id": 8,  
"name": "The Gunslinger",  
"img": "images/TheGunslinger.jpg",  
"author": "Stephen King",  
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domiciled in North Africa, a man of the Mediterranean, an homme du midi yet one who  
hardly partakes of the traditional Mediterranean culture'. He attends his mother's  
funeral. A few days later, he kills an Arab man in French Algiers, who was involved in  
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dramatist George Peele. The novel, set against the backdrop of World War I, describes a love affair between the expatriate Henry and an English nurse, Catherine Barkley. Its publication ensured Hemingway's place as a modern American writer of considerable stature.[2] The book became his first best-seller, and has been called 'the premier American war novel from that debacle World War I.'",

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Midland resident, Pontiac dealer and affluent figure in the city and Kilgore Trout, a widely published but mostly unknown science fiction author. Breakfast of Champions has themes of free will, suicide, and race relations among others.",

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