

Akademija tehničko-umetničkih strukovnih Studija

Odsek Visoka ICT škola

# Collēctiō

<https://nikola-project-418a3.web.app/>

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# Uvod

## Korišćene tehnologije

- HTML
- CSS
- TypeScript
- Angular
- Bootstrap

## Okruženja

Za izradu projekta korišten je Visual Studio Code.

## Opis projekta

Projekat predstavlja online enciklopediju ili raznovrsne online kolekcije koje korisnici mogu da posjećuju i o kojim mogu da čitaju i nauče nešto novo.

# Organizacija

## Struktura JSON fajla

```
"categories": [
  {
    "id": 1,
    "name": "Botanic"
  },
  {
    "id": 2,
    "name": "Animals"
  },
  {
    "id": 3,
    "name": "Insects"
  },
  {
    "id": 4,
    "name": "History"
  }
],

"collectionItems": [
  {
    "id": 1,
    "image": "fungi1.jpg",
    "infos": [
      1,
      2
    ],
    "model": "AmanitaMuscaria",
    "title": "Amanita Muscaria"
  },
  {
    "id": 2,
    "image": "fungi2.jpg",
    "infos": [
      4,
      5
    ],
    "model": "AmanitaRubescens",
    "title": "Amanita Rubescens"
  }
],

"collections": [
  {
    "backgroundImage": "banner1.jpg",
    "categoryId": 1,
    "id": 1,
    "image": "fungi1.jpg",
    "items": [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12],
    "title": "Mushrooms",
    "userId": 1
  },
  {
    "backgroundImage": "banner2.jpg",
    "categoryId": 3,
    "id": 2,
    "image": "insect7.jpg",
    "items": [...],
    "title": "Butterflies",
    "userId": 2
  }
]
```

```

"itemInfos": [
  {
    "content": "A saprobic species, Lycoperdon grow in fairy rings. Typical habitats in Tamil Nadu, India. The puffball some",
    "id": 1,
    "title": "First Info"
  },
  {
    "content": "Aglia tau, the tau emperor Pacific coast. The species was first d",
    "id": 2,
    "title": ""
  },
]

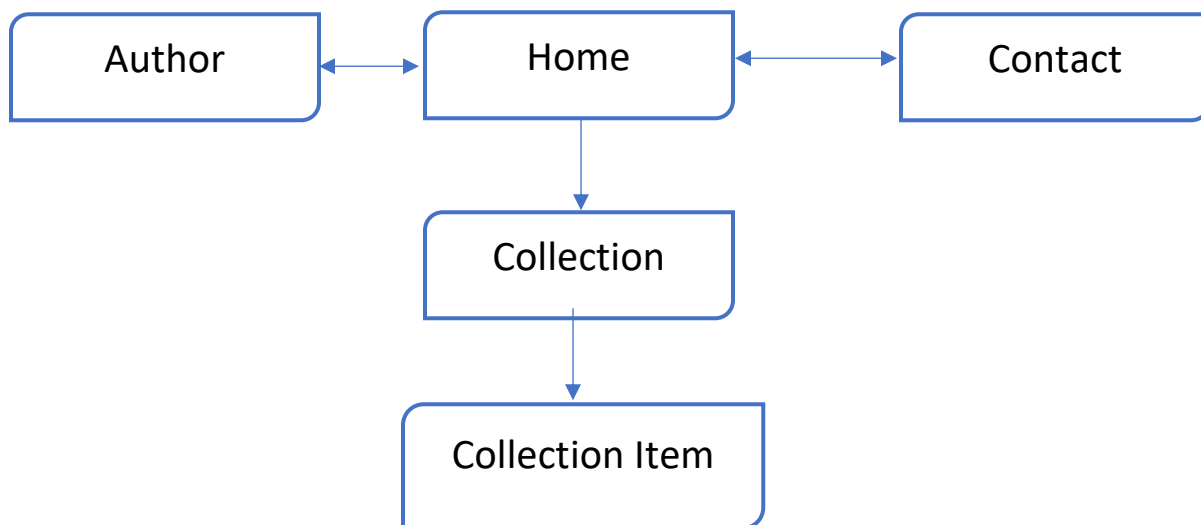
```

```

"users": [
  {
    "email": "nikola@gmail.com",
    "firstName": "Nikola",
    "id": 1,
    "lastName": "Gutic"
  },
  {
    "email": "ana@gmail.com",
    "firstName": "Ana",
    "id": 2,
    "lastName": "Ana"
  }
]

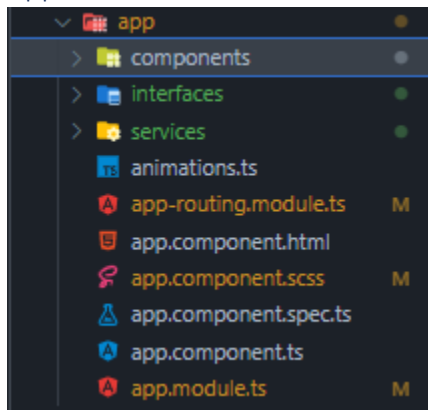
```

Organizaciona šema

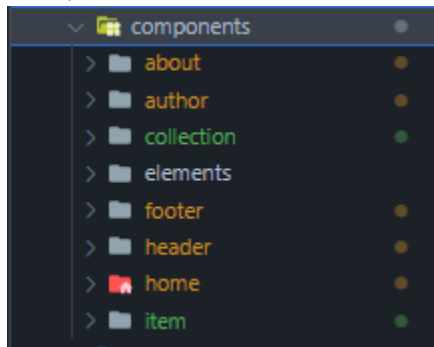


## Struktura projekta

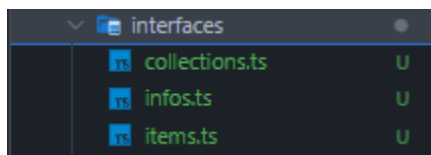
### App



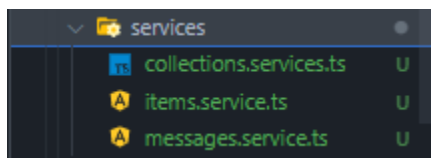
### Components



### Interfaces



### Services



[Opis i slike stranica](#)

[Home](#)



Na Home stranici prikazane su sve kolekcije, klikom na neku od kolekcija otvara se nova stranica sa svim njenim elementima.

[Collection](#)





Na stranici kolekcije prikazani su autor, naziv kolekcije i svi njeni elementi, klikom na neki od elemenata prikazuje se detaljniji prikaz.

## Collection item

NIKOLAGUTIO

HomeContact



### Clavulina Cristata

#### Technical description and variation

The wingspan is 23–37 mm. Tannish-peach ground colour, rose-red margin to the forewing, and on this wing a black dentate line beyond the middle, and black, elongate spots before the margin. In the male the costa is curved upwards beyond the apex of the cell. In *ab. rosearia* Gutler (now full species *Mitocnistis rosearia*), which is commoner in the east of the area of distribution than in the west, and is perhaps a distinct species, the ground colour is more yellow, and in *ab. croceae* Signat the wings are quite pale yellow; the forewing being edged with bright yellow.

*Mitocnistis minuta*, the rosy footman, is a moth of the family Erebidae. The species was first described by Johann Reinhold Forster in 1775. It is found in the temperate parts of the Palearctic realm – Europe, Asia Minor, Caucasus, northern Kazakhstan, southern Siberia, Amur, Primorye, Sakhalin, southern Kuriles, Heilongjiang, Liaoning, Hebei, Inner Mongolia, Shanxi, Sichuan, Korea and Japan, but may be replaced by *Mitocnistis rosearia* in the eastern Palearctic.

#### Habitat

The Oak Eggar's habitat is wide-ranging, including scrub, heath, moor, downland, hedges and sea cliffs, reflecting the larva's very varied range of food plants.

Home

About

Author

NIKOLAGUTIO0022

collectiō

COPYWRITING: Niko Guts  
DESIGN, DEVELOP: Niko Guts

Element kolekcije može sadržati dodatne informacije kao i 3D model.



## Contact

contact

Home Contact

# Contact Us

Feel free to contact us and we will get back to you as soon as we can.

Your Name \*

Email \*

Message \*

SEND

Home  
About  
Author

NICOLAGUTTO©2022

collectiō  
COPYWRITING DESIGN, DEVELOP  
Nicola Gutto

Kontakt stranica sadrži formu sa proverom elemenata formulara i obradom grešaka. Ukoliko je validacija prošla dugme za slanje se enable-uje. Slanje mail-a je realizovano pomoću Formspree-a.

## Kodovi

### Banner component

#### Html

```
<div class="banner">
  <div class="heading" @fade>
    <h1>collectiō </h1>
    <h3>The encyclopedia of everything</h3>
    <span class="opis">discover, learn & share your work</span>
  </div>
</div>
```

#### Scss

```
.banner {
  height: 50vh;
  width: 100%;
```

```

display: flex;
justify-content: center;

.heading {
  text-align: center;
  padding-top: 8%;
  font-family: 'Bagerich';
  z-index: 99;

  h1 {
    z-index: 99;
    font-size: 13vw;
  }

  .opis {
    font-family: "Agrandir";
    z-index: 99;
    font-stretch: extra-condensed;
  }
}

@media only screen and (max-width: 992px) {
  .heading {
    padding-top: 20vh;
  }
}
}

```

Ts

```

import { $animations } from 'src/app/animations';
import { Component, OnInit } from '@angular/core';

@Component({
  selector: 'app-banner',
  templateUrl: './banner.component.html',
  styleUrls: ['./banner.component.scss'],
  animations: [$animations]
})
export class BannerComponent implements OnInit {

```

```

    constructor() { }

    ngOnInit(): void {
    }
}

```

Collections component

Html

```

<div class="table-fungi">
  <div class="row">
    <div class="col-12 d-flex flex-wrap justify-content-center">
      <app-single-collection class="col-lg-2 col-md-3 col-12 ms-3 me-3 mb-5 mt-3" *ngFor="let collection of collections | async" [data]="collection"></app-single-collection>
    </div>
  </div>
</div>

```

Scss

```

.table-fungi{
  margin-top: 100px;
  width: 100%;
  padding: 0px 5%;
  z-index: 60;
}

```

Ts

```

import { CollectionsServices } from '../services/collections.services';
import { Component, OnInit } from '@angular/core';
import { Observable } from 'rxjs';

```

```

import { Collections } from 'src/app/interfaces/collections';

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

  collections!: Observable<Collections[]>;
  data!: Collections[];

  constructor(private collectionServices: CollectionsServices) { }

  ngOnInit(): void {
    this.getCollections();
  }

  getCollections(): void {
    this.collections = this.collectionServices.getCollections();
  }
}

```

Single Collection component

Html

```

<div class="fungi-content" [ngStyle]="animateBlock" style="background-image:
url('../..../assets/images/{{data.image}}'); background-position: center;
background-repeat: no-repeat;
background-size: cover;">
  <div class="layer" [ngStyle]="hoverLayer">
  </div>
  <span class="content">
    <a aria-current="page" [routerLink]="['/collection',
transformUrl(data.title)]" routerLinkActive="active">
      <p class="info" [ngStyle]="animateText">{{data.title}}</p>
    </a>
  </span>
</div>

```

Scss

```
.fungi-content {
  position: relative;
  background-position: center;
  background-repeat: no-repeat;
  background-size: cover;
  height: 240px;
  display: flex;
  align-items: center;
  justify-content: center;
  z-index: 60;

  box-shadow: rgba(0, 0, 0, 0.2) 0px 60px 40px -7px;

  .layer {
    position: absolute;
    top: 0;
    left: 0;
    width: 100%;
    height: 100%;
  }

  .content {
    display: flex;
    align-items: center;
    justify-content: center;
    width: 100%;
    .info{
      p{
        width: 100%;
      }
    }
    a {
      width: 100%;
      p {
        font-weight: 300;
        width: 100%;
        z-index: 99;
      }
    }
  }
}
```

Ts

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

@Component({
  selector: 'app-single-collection',
  templateUrl: './single-collection.component.html',
  styleUrls: ['./single-collection.component.scss']
})
export class SingleCollectionComponent implements OnInit {

  @Input() data!: any;

  isVisible = false;
  brojac!: number;
  interval!: any;

  constructor(public el: ElementRef<HTMLElement>) {
  }

  public transformUrl(data: string): string {
    let newString = data.replace(/\s/g, '-');
    return newString;
  }

  @HostListener('mouseenter')
  onMouseEnter() {
    this.isVisible = true;
    this.brojac = 1;
    clearInterval(this.interval);
    this.interval = setInterval(() => {
      if (this.brojac < 1.3) {
        this.brojac += 0.01
      }
      else {
        clearInterval(this.interval);
      }
    }, 5);
  }
}
```

```

@HostListener('mouseleave')
onMouseLeave() {
  this.isVisible = false;
  clearInterval(this.interval);
  this.interval = setInterval(() => {
    if (this.brojac > 1) {
      this.brojac -= 0.01
    }
    else {
      clearInterval(this.interval);
    }
  }, 5);
}

ngOnInit(): void {

}

get animateText() {
  if (this.isVisible) {
    return {
      "text-align": "center",
      "animation-name": "fontZoom",
      "animation-duration": "0.5s",
      "animation-fill-mode": "forwards"
    }
  }
  return {
    "text-align": "center",
    "animation-name": "fontOut",
    "animation-duration": "0.5s",
    "animation-fill-mode": "forwards"
  }
}

get animateBlock() {
  const scaler = this.brojac;
  if (this.isVisible) {
    return {
      "transform": "scale(" + scaler + ", " + scaler + ")",
      "animation-name": "borderCurver",
      "animation-duration": "0.5s",
      "animation-fill-mode": "forwards",
      "z-index": "10"
    }
  }
}

```

```

    }
    return {
      "transform": "scale(" + scaler + "," + scaler + ")",
      "animation-name": "borderCurverOut",
      "animation-duration": "0.5s",
      "animation-fill-mode": "forwards",
      "z-index": "5"
    }
  }
}

get hoverLayer() {
  if (this.isVisible) {
    return {
      "animation-name": "hoverLayer",
      "animation-duration": "0.5s",
      "animation-fill-mode": "forwards"
    }
  }
  return {
    "animation-name": "hoverLayerExit",
    "animation-duration": "0.10s",
    "animation-fill-mode": "forwards"
  }
}

get borderCurver() {
  if (this.isVisible) {
    return {
      "animation-name": "borderCurver",
      "animation-duration": "0.5s",
      "animation-fill-mode": "forwards"
    }
  }
  return {
    "animation-name": "borderCurverOut",
    "animation-duration": "0.5s",
    "animation-fill-mode": "forwards"
  }
}
}
}

```



## Header component

### Html

```
<nav class="navbar fixed-top navbar-expand-lg navbar-light bg-light">
  <div class="contain" [ngStyle]="headerOverlay">
    <a class="navbar-brand" routerLink="/author"
routerLinkActive="active">NIKOLAGUTIC</a>
    <button class="navbar-toggler navButton" type="button" data-bs-
toggle="collapse"
      data-bs-target="#navbarSupportedContent" aria-
controls="navbarSupportedContent" aria-expanded="false"
      aria-label="Toggle navigation" (click)="animateButton()"
[ngStyle]="buttonAnimation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarSupportedContent">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0 navi">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" routerLink="/"
routerLinkActive="active">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/about"
routerLinkActive="active">Contact</a>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

### Scss

```
.navbar-light .navbar-toggler {
  color: rgba(0, 0, 0, 0.55);
  border-color: rgba(0, 0, 0, 0) !important;

  &:focus {
    border: none !important;
    box-shadow: none !important;
  }
}
```

```
}

.navbar {
  padding: 0px 150px;
  font-family: Agrandir;
  color: black;
  width: 100%;

  .contain {
    box-shadow: rgba(0, 0, 0, 0.15) 1.95px 1.95px 2.6px;
    backdrop-filter: blur(2px);

    position: absolute;
    height: 10vh;
    top: 0px;
    left: 0px;
    width: 100%;
    display: flex;
    justify-content: space-between;
    align-items: center;
    padding: 0px 10%;
  }

  .navi {
    display: flex;
    align-items: center;
    width: 100%;
    justify-content: end;
    flex-direction: row;

    li {
      padding: 15px 20px;
      font-size: 1.2rem;
    }
  }
}

.navbar-brand {
  color: #212529;
  font-style: italic;
}
```

Ts

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

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

  public clicked: boolean = false;
  public triggerAnimation!: boolean;
  public scrollValue!: number;

  constructor() { }

  ngOnInit(): void {
    this.animateHeader();
  }

  //OnScroll trigger za promenu stilova header-a
  animateHeader() {
    window.addEventListener('scroll', () => {
      this.scrollValue = window.pageYOffset;
      if (this.scrollValue > 100) {
        this.triggerAnimation = true;
      }
      else {
        this.triggerAnimation = false;
      }
    })
  }

  animateButton() {
    this.clicked = !this.clicked;
  }

  //Dodavanje stilova i animacija menu-button-u
  get buttonAnimation() {
    if (this.clicked) {
      return {
        "animation-name": "animateMenuIn",
        "animation-duration": "3s",

```

```
        "animation-fill-mode": "forwards"
    }
}
return {
    "animation-name": "animateMenuOut",
    "animation-duration": "3s",
    "animation-fill-mode": "forwards"
}
}

//stilovi
get headerOverlay() {
    if (this.triggerAnimation) {
        return {
            "animation-name": "headerIn",
            "animation-duration": "0.5s",
            "animation-fill-mode": "forwards"
        }
    }
    return {
        "animation-name": "headerOut",
        "animation-duration": "0.5s",
        "animation-fill-mode": "forwards"
    }
}

get aTagColor() {
    if (this.triggerAnimation) {
        return {
            "color": "#ffedc5"
        }
    }
    return {
        "color": "#212529"
    }
}
}
```

## Footer component

### Html

```
<div class="container foot">
  <div class="row">
    <div class="col-lg-6 col-md-6 col-12 copy ">
      <ul class="navbar-nav me-auto mb-2 mb-lg-0 navi">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" routerLink="/"
routerLinkActive="active">Home</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/main"
routerLinkActive="active">About</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" routerLink="/author"
routerLinkActive="active">Author</a>
        </li>
      </ul>
      <p>NIKOLAGUTIC&#169;2022</p>
    </div>
    <div class="col-lg-6 col-md-6 col-12">
      <h1>collectiō</h1>
      <ul>
        <li>COPYWRITHING&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</li><a
href="">Nikola Gutic</a><br>
        <li>DESIGN, DEVELOP&nbsp;&nbsp;&nbsp;</li><a href="">Nikola
Gutic</a><br>
      </ul>
    </div>
  </div>
</div>
```

### Scss

```
.container {
  padding: 50px;
  margin-top: 50px;
  height: 40vh;
```

```
font-family: Agrandir;
h1 {
  font-family: 'Bagerich';
  font-size: 3rem;
}

ul {
  padding: 0px;

  li {
    display: inline;
  }

  justify-content: flex-end;
}

a {
  display: inline;
  color: black;
  text-decoration: underline;
}

.copy {
  display: flex;
  flex-direction: column;
  justify-content: flex-end;

  a {
    text-decoration: none;
  }

  p {
    margin-top: 30px;
  }

  .navi {
    width: 100%;
  }
}

@media only screen and (max-width: 768px) {

  h1,
  ul,
  p {
```

```

        text-align: center !important;
    }
}
}

```

Ts

```

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

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

  constructor() { }

  ngOnInit(): void {
  }

}

```

Collection component

Html

```

<div class="row">
  <div class="background-image col-12"
    style="background-
image:url('../assets/images/{{data.backgroundImage}}')">
  </div>
  <div class="image-info-container">
    <div class="collection-image">
      
    </div>
  </div>

```

```

</div>
<div class="row">
  <div class="image-info-container">
    <div class="collection-info">
      <div class="author">
        <h1 class="title">{{data.title}}</h1>
        <p *ngIf="author">By : {{author.firstName + " " +
author.lastName}}</p>
        <p>{{data.description}}</p>
      </div>
    </div>
  </div>
</div>
<div class="container">
  <div class="row">
    <div class="col-12 d-flex flex-wrap justify-content-around">
      <app-collection-item class="col-lg-3 col-md-6 col-sm-6 col-12"
*ngFor="let item of items" [itemData]="item"
      [title]="collectionTitle">
    </app-collection-item>
    </div>
  </div>
</div>
</div>

```

Scss

```

.background-image {
  height: 50vh;
  background-position: center;
  background-repeat: no-repeat;
  background-size: cover;

  img {
    height: 100%;
    width: 100%;
  }
}

.row {
  position: relative;

```



```
}

.collection-info {
  font-family: "Agrandir";
  padding-top: 2rem;

  .title {
    font-family: "Bagerich";
    font-size: 4rem;
  }
}

.image-info-container {
  width: 100%;
  padding: 0px 10%;
}

.collection-image {
  position: absolute;
  bottom: -10%;
  width: 200px;
  border: 5px solid white;
  overflow: hidden;
  display: flex;
  align-items: center;
  justify-content: center;

  img {
    width: 100%;
  }
}

@media only screen and (max-width: 992px) {
  .image-info-container {
    display: flex;
    justify-content: center;

    .collection-info {
      text-align: center;
    }
  }
}
```

Ts

```
import { Component, OnInit } from '@angular/core';
import { AngularFireAction } from '@angular/fire/compat/database';
import { ActivatedRoute } from '@angular/router';
import { Observable } from 'rxjs';
import { Items } from 'src/app/interfaces/items';
import { CollectionsServices } from 'src/app/services/collections.services';

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

  collectionTitle!: string;
  sub!: any;
  data!: any;
  author!: any;
  items = new Array<any>();

  itemData!: Items[];

  authorObs!: Observable<unknown[]>;
  collection!: Observable<unknown[]>;
  itemsObs!: Observable<unknown[]>[];

  constructor(private route: ActivatedRoute, private collectionServices:
CollectionsServices) { }

  ngOnInit(): void {
    this.getCollectionName();
    this.getCollection(this.collectionTitle);
  }

  ngAfterViewInit() {
    this.valueChecker();
  }

  valueChecker() {
    if (this.data == undefined) {
      this.valueChecker();
    }
  }
}
```

```

    this.getAuthor(this.data.userId);
    this.getItems(this.data.items);
  }

  getCollectionName() {
    this.sub = this.route.params.subscribe(params => {
      this.collectionTitle = params['title'].replaceAll('-', ' ');
    });
  }

  getCollection(name: string) {
    this.collection = this.collectionServices.find(name);
    this.collection.subscribe(val => this.data = val[0]);
  }

  getAuthor(id: string) {
    this.authorObs = this.collectionServices.author(id);
    this.authorObs.subscribe(val => this.author = val[0]);
  }

  getItems(itemIds: []) {
    this.itemsObs = this.collectionServices.items(itemIds);
    this.itemsObs.forEach(element => {
      element.subscribe(val => this.items.push(val[0]));
    });
  }
}

```

Collection item component

Html

```

<div class="card">
  <div class="content">
    <div class="imgBx">
      
    </div>
  </div>
  <div class="item-info">

```

```

      <a [routerLink]="['/collection',transformUrl(title),
transformUrl(itemData.title)]">
        <h5>{{itemData.title}}</h5>
      </a>
    </div>
  </div>

```

Scss

```

.card {
  position: relative;
  height: 300px;
  background: rgba(255, 255, 255, 0.05);
  margin: 20px;
  display: flex;
  justify-content: center;
  align-items: center;
  overflow: hidden;

  box-shadow: 0px 10px 1px rgba(221, 221, 221, 1), 0 10px 20px rgba(204, 204, 204, 1);

  .content {
    position: relative;
    display: flex;
    width: 100%;
    justify-content: center;
    align-items: center;
    flex-direction: column;
    transition: 0.5s;

    .imgBx {
      position: relative;
      width: 100%;
      height: 300px;
      overflow: hidden;

      img {
        position: absolute;
        inset: 0px;
        box-sizing: border-box;
        padding: 0px;
      }
    }
  }
}

```

```

        border: none;
        margin: auto;
        display: block;
        width: 100%;
    }

}

.item-info {
    position: absolute;
    bottom: -50px;
    width: 100%;
    height: 50px;
    transition: 0.5s;
    background-color: #fff;

    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;

    font-family: "Bagerich";
    h5{
        text-align: center;
    }
    a{
        color: #212529;
    }
}

&:hover .item-info {
    transform: translateY(-50px);
}
}

```

Ts

```

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

@Component({

```

```

    selector: 'app-collection-item',
    templateUrl: './collection-item.component.html',
    styleUrls: ['./collection-item.component.scss']
  })
  export class CollectionItemComponent implements OnInit {

    @Input() itemData!: any;
    @Input() title!: string;

    constructor() { }

    ngOnInit(): void {
    }
    public transformUrl(data: string): string {
      return data.replace(/\\s/g, '-');
    }
  }
}

```

Author component

Html

```

<div class="main">
  <div class="row">
    <div class="col-2">
      <div class="side side-left">
        <p>less.less.less.less.</p>
      </div>
    </div>
    <div class="col-8">
      <div class="info">
        <div class="row d-flex justify-content-center">
          <div class="col-md-6 col-10 image">
            
          </div>
          <div class="col-md-6 col-10 author">
            <h1>Hello I'm Nikola</h1>
            <p>I am studying at the College of Information and
Communication Technologies, majoring in
Internet

```

```

        Technology and I enjoy everything this college has to
offer, web3 enthusiast and I work at A
        Tavola, a
        great startup company that develops technology based
on computer vision, designed for collection,
        analysis and data use for improving restaurant front
and back of the house operations, as
        well
        as to optimize overall operations and efficiency of
the restaurants.</p>
    </div>
</div>
</div>
<div class="col-2">
    <div class="side side-right">
        <p>less.less.less.less.</p>
    </div>
</div>
</div>
</div>

```

Scss

```

.main {
  .side {
    font-size: 10rem;
    font-family: Bagerich;
  }

  .side-left {
    p {
      position: relative;
      top: -50px;
      transform: rotate(90deg) scale(1, -1);
    }
  }

  .side-right {
    p {
      position: relative;
      top: -50px;
    }
  }
}

```

```

        transform: rotate(90deg);
    }
}

.info {
    padding-top: 150px;
    width: 100%;
    margin-bottom: 150px;
}

.image {
    img {
        width: 80%;
        float: right;
    }
}

.author {
    h1 {
        font-size: 5rem;
        font-family: Bagerich;
    }

    p {
        text-align: justify;
    }
}
}

```

Ts

```

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

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

```



```

public infoBlock!: any;
constructor() { }

ngOnInit(): void {
}

click(event: { currentTarget: any; }) {
    var idAttr = event.currentTarget.id
    this.change(idAttr);
}
change(id: string) {
    var selector = "#info" + id;
    this.infoBlock = document.querySelector(selector);
    if (this.infoBlock.classList.contains('none')) {
        this.infoBlock.classList.remove('none');
        this.infoBlock.classList.add('block');
    }
    else {
        this.infoBlock.classList.add('none');
        this.infoBlock.classList.remove('block');
    }
}
}

```

About (Contact) component

Html

```

<div class="container">
    <div class="about-main">
        <div class="col-6">
            <h1>Contact Us</h1>
            <p>Feel free to contact us and we will get back to you as soon as we
can.</p>
        </div>
    </div>
    <div class="contact-area">
        <div class="container">
            <form [formGroup]="contactForm" (ngSubmit)="onSubmit()">
                <div class="row">

```

```

        <div class="col-sm-6 col-12">
            <mat-form-field appearance="outline">
                <mat-label>Your Name <span class="req">*</span>
            </mat-label>

            <input matInput formControlName="name" />

            <div *ngIf="name?.invalid && (name?.dirty ||
name?.touched)" class="alert alert-danger">
                <mat-error>
                    <ng-container
*ngIf="name?.errors?.['required']">
                        Your full name is required.
                    </ng-container>
                </mat-error>
            </div>
        </mat-form-field>
    </div>
    <div class="col-sm-6 col-12">
        <mat-form-field appearance="outline">
            <mat-label>Email <span class="req">*</span></mat-
label>

            <input matInput formControlName="email" />
            <div *ngIf="email?.invalid && (email?.dirty ||
email?.touched)" class="alert alert-danger">
                <mat-error>
                    <ng-container
*ngIf="email?.errors?.['required']">
                        Email is required.
                    </ng-container>
                    <ng-container
*ngIf="email?.errors?.['minlength']">
                        The field is under min Len.
                    </ng-container>
                </mat-error>
            </div>
        </mat-form-field>
    </div>
</div>
<div class="row">
    <div class="col-12">
        <mat-form-field appearance="outline">
            <mat-label>Message <span class="req">*</span></mat-
label>

            <textarea name="msg" id="msg" matInput
formControlName="msg">

```

```

        </textarea>
        <div *ngIf="msg?.invalid && (msg?.dirty ||
msg?.touched)" class="alert alert-danger">
            <mat-error>
                <ng-container
*ngIf="msg?.errors?.['required']">
                    Message is required.
                </ng-container>
            </mat-error>
        </div>
    </mat-form-field>
</div>
<div class="row">
    <div class="col-12">
        <button class='send' mat-flat-button color="primary"
(ngSubmit)="onSubmit()"
            [disabled]="contactForm.invalid">send</button>
    </div>
</div>
</form>
</div>
</div>
</div>

```

Css

```

input {
    background-color: rgba(0, 0, 0, 0);
    outline: none;
    border: none;
    border-bottom: 1.3px solid black;
    width: 100%;
}

mat-label {
    margin-top: 20px;
    display: block;
}

.alert-danger {

```

```
background-color: rgba(0, 0, 0, 0);
border: none;
height: 30px;
padding: 0px;
margin: 0px;
}

.req {
  color: brown;
}

#msg {
  width: 100%;
  background-color: rgba(0, 0, 0, 0);
  padding: 20px;

  &:focus {
    outline: none;
  }
}

.about-main {
  padding: 0px 12px;
  margin: 20vh 0px 10vh 0px;
  h1{
    font-family: Bagerich;
    font-size: 5rem;
  }
}

.send {
  background-color: rgba(0, 0, 0, 0);
  border: 1px solid black;
  outline: none;
  width: 200px;
  height: 50px;

  &:focus {
    outline: none;
  }
}
```

Ts

```
import { MessagesService } from './../../services/messages.service';
import { Component, OnInit } from '@angular/core';
import { FormGroup, FormControl, Validators } from '@angular/forms';

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

  public contactForm = new FormGroup({
    name: new FormControl('', [Validators.required]),
    email: new FormControl('', [Validators.required, Validators.minLength(5)]),
    msg: new FormControl('', [Validators.required])
  });

  constructor(private messagesServices: MessagesService) { }

  ngOnInit(): void {
  }

  onSubmit(): void {
    if (this.contactForm.valid) {
      this.messagesServices.sendEmail(this.contactForm.value);
    }
    this.contactForm.reset();
  }

  get name() { return this.contactForm.get('name'); }
  get email() { return this.contactForm.get('email'); }
  get msg() { return this.contactForm.get('msg'); }
}
```

## Interfaces

### Collection

```
export interface Collections {  
  id : number;  
  title: string;  
  image: string;  
  backgroundImage: string;  
  userId: number;  
  categoryId: number;  
  items: [number];  
}
```

### Infos

```
export interface Infos {  
  id : number;  
  title: string;  
  content: string;  
}
```

### Items

```
export interface Items {  
  id : number;  
  title: string;  
  image: string;  
  model: string;  
  infos: [string];  
}
```

## Services

### Collection.services

```
import { Injectable } from '@angular/core';  
import { BehaviorSubject, Observable } from 'rxjs';
```

```

import { AngularFireDatabase, AngularFireList } from
 '@angular/fire/compat/database';

import { Collections } from '../interfaces/collections';

@Injectable({
  providedIn: 'root'
})

export class CollectionsServices {

  public collections: Observable<Collections[]>;
  private itemsRef: AngularFireList<any>;

  singleCollection!: Observable<unknown[]>;
  collectionModel!: BehaviorSubject<any>;

  authorData!: Observable<unknown[]>;
  private itemsData!: any;

  constructor(private db: AngularFireDatabase) {

    this.itemsRef = db.list('collections');
    this.collections = this.itemsRef.valueChanges();
  }

  public find(title: string | null): Observable<unknown[]> {
    this.singleCollection = this.db.list('collections', ref =>
      ref.orderByChild('title').equalTo(title)
    ).valueChanges();

    return this.singleCollection;
  }

  public author(userId: string | null): Observable<unknown[]> {
    this.authorData = this.db.list('users', ref =>
      ref.orderByChild('id').equalTo(userId)
    ).valueChanges();

    return this.authorData;
  }

  public items(itemIds: []): Observable<unknown[]>[] {
    this.itemsData = new Array<Observable<unknown[]>>();
  }

```

```

        itemIds.forEach(element => {
            let obj = this.db.list('collectionItems', ref =>
                ref.orderByChild('id').equalTo(element)
            ).valueChanges();
            this.itemsData.push(obj);
        });
        return this.itemsData;
    }

    public getCollections(): Observable<Collections[]> {
        return this.collections;
    }
}

```

Items.service

```

import { AngularFireDatabase } from '@angular/fire/compat/database';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';

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

    private itemInfos!: any;
    private singleItem!: Observable<unknown[]>;
    constructor(private db: AngularFireDatabase) {

    }

    public find(title: string | null): Observable<unknown[]> {
        this.singleItem = this.db.list('collectionItems', ref =>
            ref.orderByChild('title').equalTo(title)
        ).valueChanges();

        return this.singleItem;
    }

    public infos(infoIds: []): Observable<unknown[]>[] {

```



```

    this.itemInfos = new Array<Observable<unknown[]>>();
    infoIds.forEach((element: string | number | boolean | null) => {
        let obj = this.db.list('itemInfos', ref =>
            ref.orderByChild('id').equalTo(element)
        ).valueChanges();
        this.itemInfos.push(obj);
    });
    return this.itemInfos;
}
}

```

Messages.service

```

import { Injectable } from '@angular/core';
import { HttpClient, HttpHeaders } from '@angular/common/http';

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

  constructor(private http: HttpClient) { }

  sendEmail(formData: any): void {
    const headers = new HttpHeaders({ 'Content-Type': 'application/json' });

    this.http.post('https://formspree.io/f/mbjb1lkj',
      { name: formData.name, replyto: formData.email, message: formData.msg },
      { 'headers': headers }).subscribe(
        response => {
          console.log(response);
        }
      );
  }
}

```

## Animations

```
import { animate, query, stagger, style, transition, trigger } from
"@angular/animations";

export const $animations = [

  trigger('fade', [
    transition('void=>*', [
      style({
        opacity: 0
      }),
      animate('3s ease-in-out')
    ])
  ]),
  trigger('slideSide', [
    transition('void=>*', [
      style({
        transform: "translateX(-300px)"
      }),
      animate("3s ease-in-out")
    ])
  ]),
  trigger('slideUp', [
    transition('void=>*', [
      style({
        transform: "translateY(200px)"
      }),
      animate("3s ease-in-out")
    ])
  ])
];
```

## App-routing-model.ts

```
import { CollectionComponent } from
'./components/collection/collection.component';
import { AuthorComponent } from './components/author/author.component';
import { AboutComponent } from './components/about/about.component';
import { HomeComponent } from './components/home/home.component';
import { NgModule } from '@angular/core';
```

```

import { RouterModule, Routes } from '@angular/router';
import { ItemComponent } from '../components/item/item.component';

const routes: Routes = [
  {
    path: '',
    component: HomeComponent,
    data: { title: 'Collectiō | Home' }
  },
  {
    path: 'collection/:title',
    component: CollectionComponent,
    data: { title: 'Collectiō | Details' }
  },
  {
    path: 'collection/:title/:name',
    component: ItemComponent,
    data: { title: 'Collectiō | Details' }
  },
  {
    path: 'about',
    component: AboutComponent,
    data: { title: 'Collectiō | About' }
  },
  {
    path: 'author',
    component: AuthorComponent,
    data: { title: 'Nikola Gutic' }
  }
];

@NgModule({
  imports: [RouterModule.forRoot(routes)],
  exports: [RouterModule]
})
export class AppRoutingModule {
}

```

App.module.ts

```

import { CUSTOM_ELEMENTS_SCHEMA, NgModule } from '@angular/core';

```

```

import { BrowserModule, Title } from '@angular/platform-browser';
import { NgbModule } from '@ng-bootstrap/ng-bootstrap';
import { HttpClientModule } from '@angular/common/http';

import { BrowserAnimationsModule } from '@angular/platform-browser/animations';
import { AppRoutingModuleModule } from './app-routing.module';
import { AngularFireModule } from "@angular/fire/compat";
import { AngularFireDatabaseModule } from '@angular/fire/compat/database';

import { AppComponent } from './app.component';
import { HeaderComponent } from './components/header/header.component';
import { LogoComponent } from './components/elements/logo/logo.component';

import { BannerComponent } from './components/home/banner/banner.component';
import { HomeComponent } from './components/home/home.component';
import { environment } from 'src/environments/environment';
import { FooterComponent } from './components/footer/footer.component';
import { AboutComponent } from './components/about/about.component';
import { AuthorComponent } from './components/author/author.component';
import { ReactiveFormsModule } from '@angular/forms';
import { CollectionsComponent } from
'./components/home/collections/collections.component';
import { SingleCollectionComponent } from './components/home/collections/single-
collection/single-collection.component';
import { CollectionComponent } from
'./components/collection/collection.component';
import { CollectionItemComponent } from './components/collection/collection-
item/collection-item.component';
import { ItemComponent } from './components/item/item.component';
import { ItemInfosComponent } from './components/item/item-infos/item-
infos.component';

@NgModule({
  declarations: [
    AppComponent,
    HeaderComponent,
    LogoComponent,
    BannerComponent,
    HomeComponent,
    FooterComponent,
    AboutComponent,
    AuthorComponent,
    CollectionItemComponent,
    CollectionsComponent,
    SingleCollectionComponent,

```

```
    CollectionComponent,  
    ItemComponent,  
    ItemInfosComponent,  
  ],  
  imports: [  
    BrowserModule,  
    AppRoutingModule,  
    NgbModule,  
    BrowserAnimationsModule,  
    AngularFireModule.initializeApp(environment.firebaseConfig),  
    AngularFireDatabaseModule,  
    ReactiveFormsModule,  
    HttpClientModule,  
  ],  
  providers: [Title],  
  bootstrap: [AppComponent],  
  schemas: [CUSTOM_ELEMENTS_SCHEMA]  
})  
export class AppModule { }
```