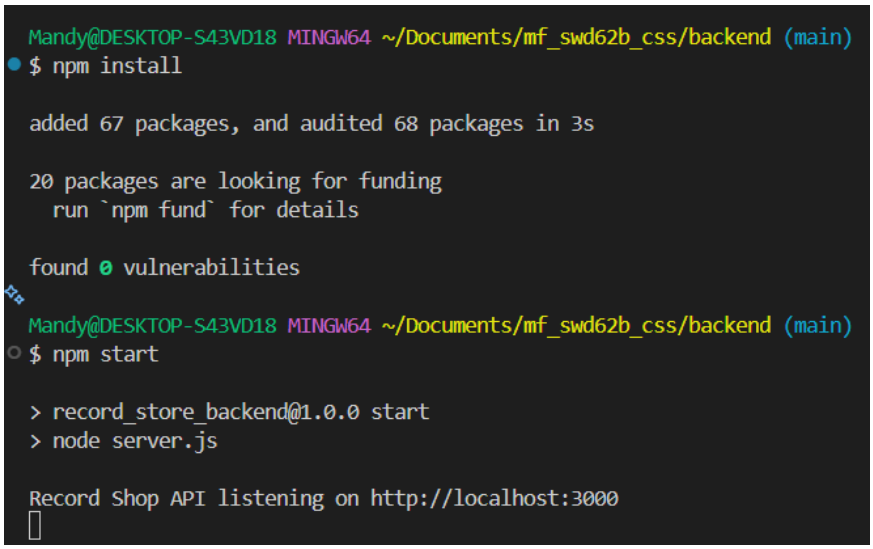
Client Side Scripting

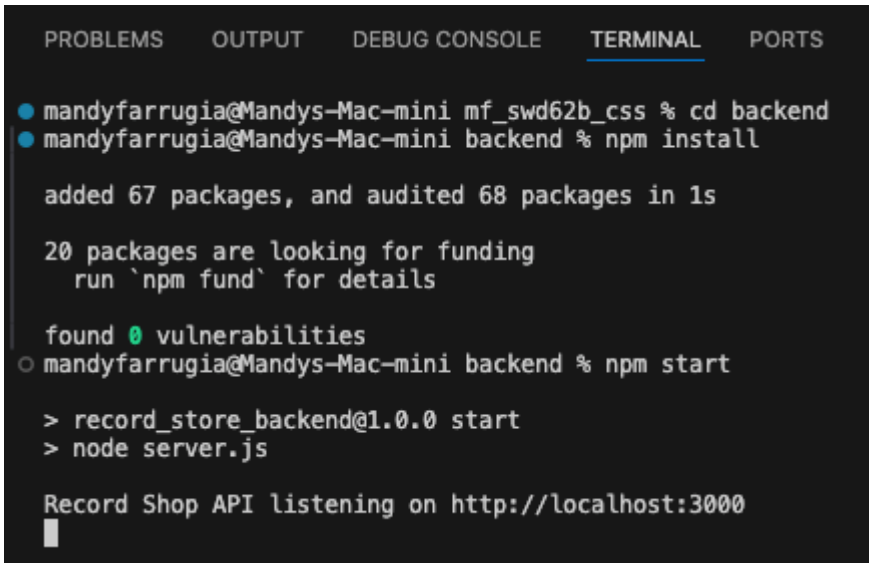
URLs

GitHub Repository	https://github.com/mandyfarrugia/mf_swd62b_css
Remote Website	https://mf-swd62b-css.onrender.com/

Screenshots

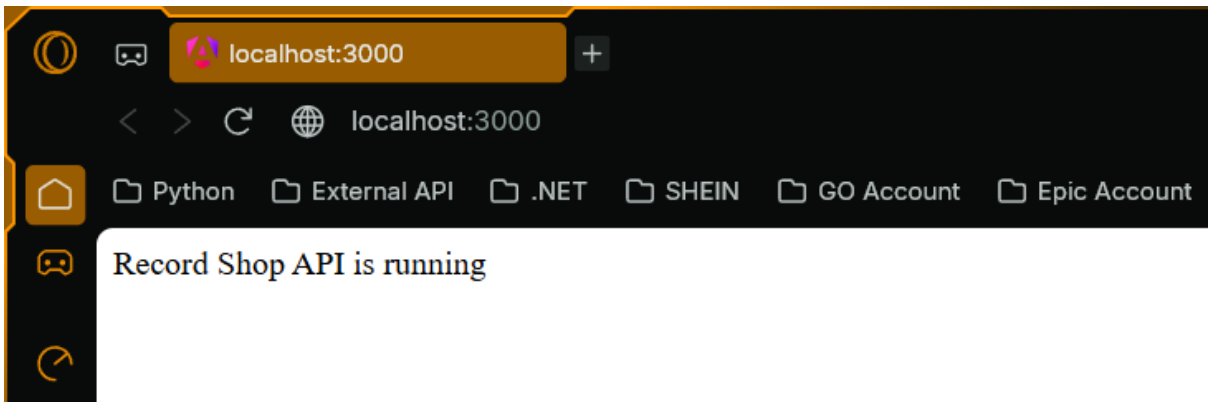
KU2.3 - Running the provided backend



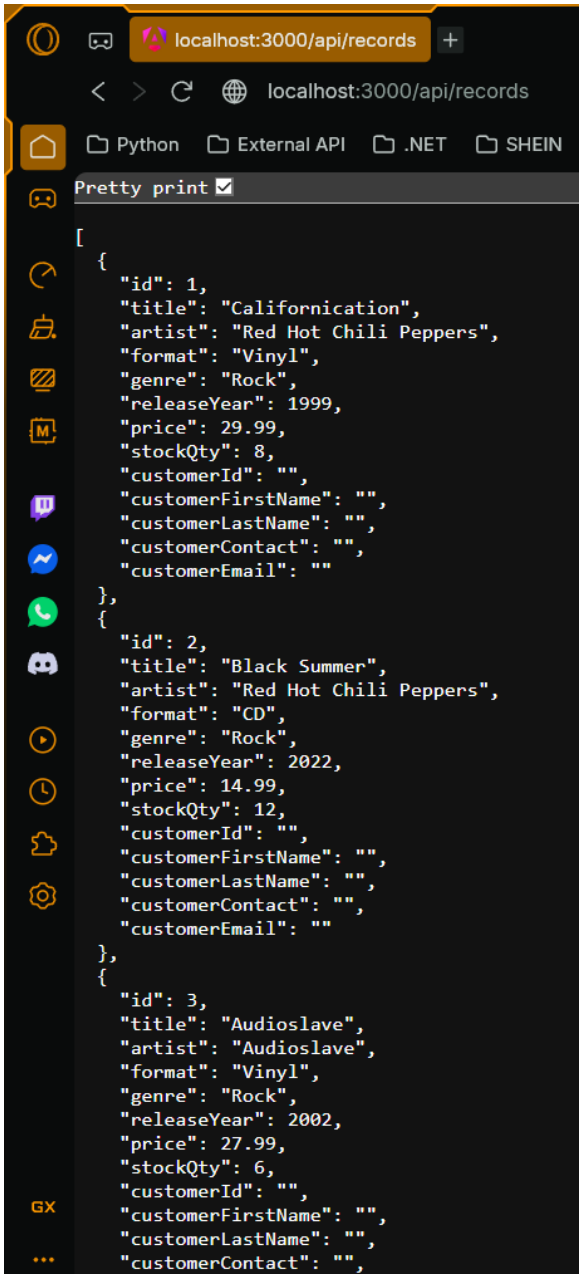


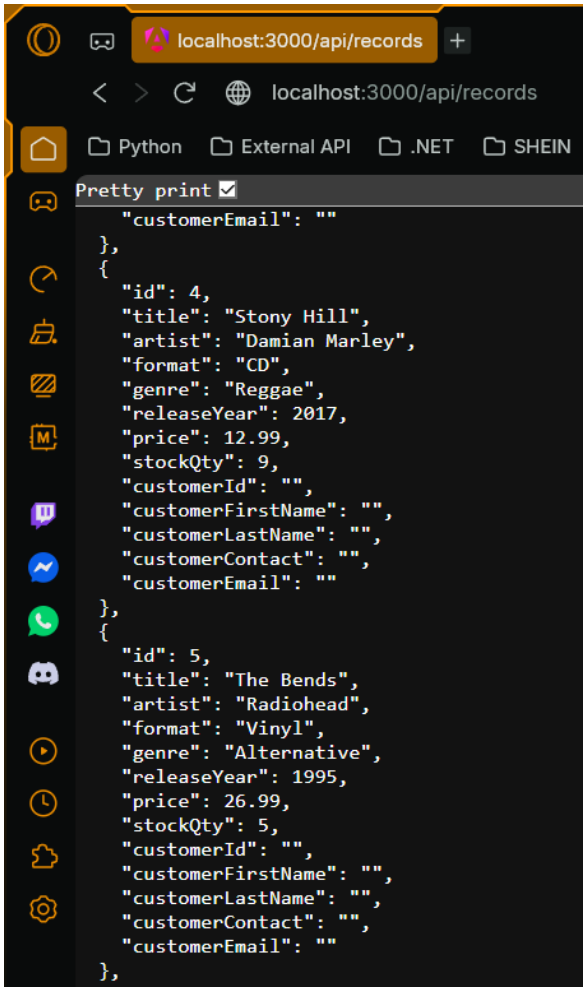
KU2.3 - Accessing the API's documentation in the browser

Health Check



Records






```
    "customerEmail": ""
  },
  {
    "id": 4,
    "title": "Stony Hill",
    "artist": "Damian Marley",
    "format": "CD",
    "genre": "Reggae",
    "releaseYear": 2017,
    "price": 12.99,
    "stockQty": 9,
    "customerId": "",
    "customerFirstName": "",
    "customerLastName": "",
    "customerContact": "",
    "customerEmail": ""
  },
  {
    "id": 5,
    "title": "The Bends",
    "artist": "Radiohead",
    "format": "Vinyl",
    "genre": "Alternative",
    "releaseYear": 1995,
    "price": 26.99,
    "stockQty": 5,
    "customerId": "",
    "customerFirstName": "",
    "customerLastName": "",
    "customerContact": "",
    "customerEmail": ""
  },
```



```
  {
    "id": 6,
    "title": "OK Computer",
    "artist": "Radiohead",
    "format": "Vinyl",
    "genre": "Alternative",
    "releaseYear": 1997,
    "price": 28.99,
    "stockQty": 4,
    "customerId": "",
    "customerFirstName": "",
    "customerLastName": "",
    "customerContact": "",
    "customerEmail": ""
  }
]
```


Brave File Edit View History Bookmarks Profiles Tab Window Help
localhost:3000/api/records
localhost:3000/api/records
Pretty print
[
{
"id": 1,
"title": "Californication",
"artist": "Red Hot Chili Peppers",
"format": "Vinyl",
"genre": "Rock",
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"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
},
{
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"title": "Black Summer",
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"format": "CD",
"genre": "Rock",
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"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
},
{
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"artist": "Audioslave",
"format": "Vinyl",
"genre": "Rock",
"releaseYear": 2002,
"price": 27.99,
"stockQty": 6,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
},
{
"id": 4,
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"artist": "Damian Marley",
"format": "CD",
"genre": "Reggae",
"releaseYear": 2017,
"price": 12.99,
"stockQty": 9,
"customerId": "",
"customerFirstName": "",


Preview File Edit View Go Tools Window Help
localhost:3000/api/records
localhost:3000/api/records
Pretty print
"format": "Vinyl",
"genre": "Rock",
"releaseYear": 2002,
"price": 27.99,
"stockQty": 6,
"customerId": "",
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"customerEmail": ""
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"price": 12.99,
"stockQty": 9,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
},
{
"id": 5,
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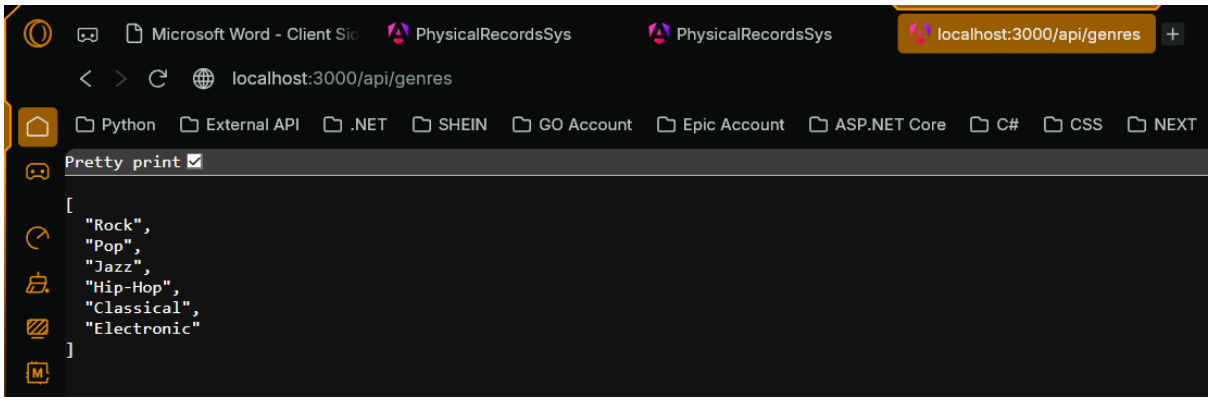
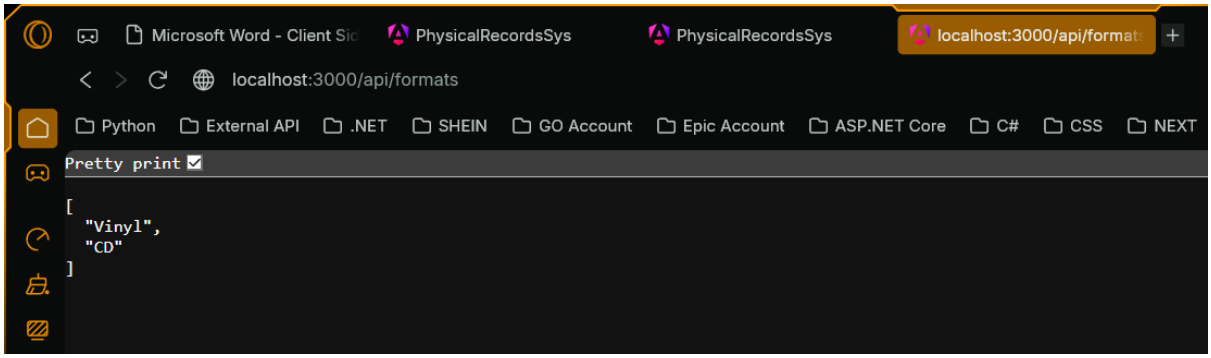
"artist": "Radiohead",
"format": "Vinyl",
"genre": "Alternative",
"releaseYear": 1995,
"price": 26.99,
"stockQty": 5,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
},
{
"id": 6,
"title": "OK Computer",
"artist": "Radiohead",
"format": "Vinyl",
"genre": "Alternative",
"releaseYear": 1997,
"price": 28.99,
"stockQty": 4,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
}
]

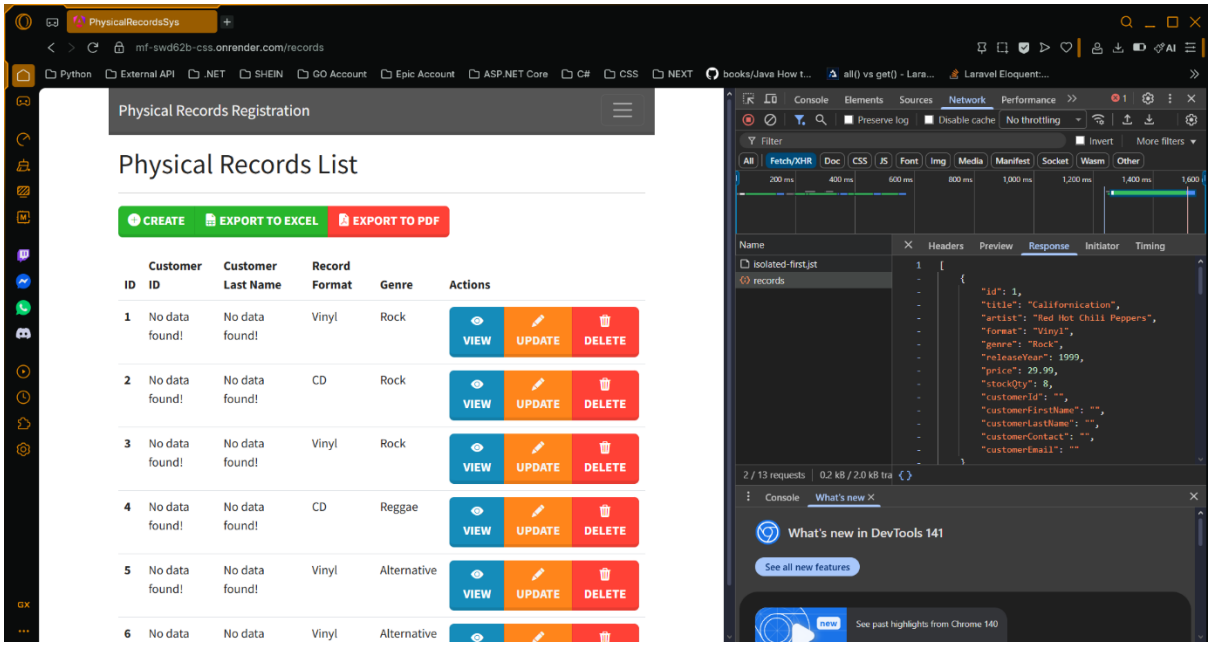
Genres

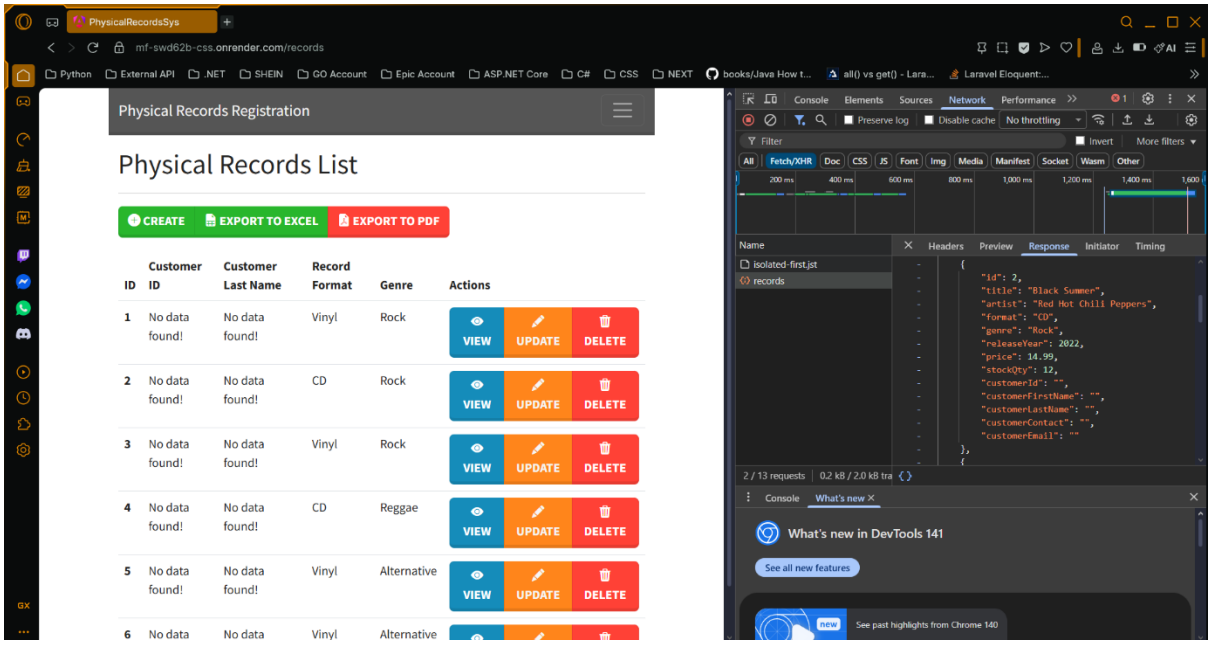

Microsoft Word - Client Sic
PhysicalRecordsSys
PhysicalRecordsSys
localhost:3000/api/genres
localhost:3000/api/genres
Python
External API
.NET
SHEIN
GO Account
Epic Account
ASP.NET Core
C#
CSS
NEXT
Pretty print
[
"Rock",
"Pop",
"Jazz",
"Hip-Hop",
"Classical",
"Electronic"
]

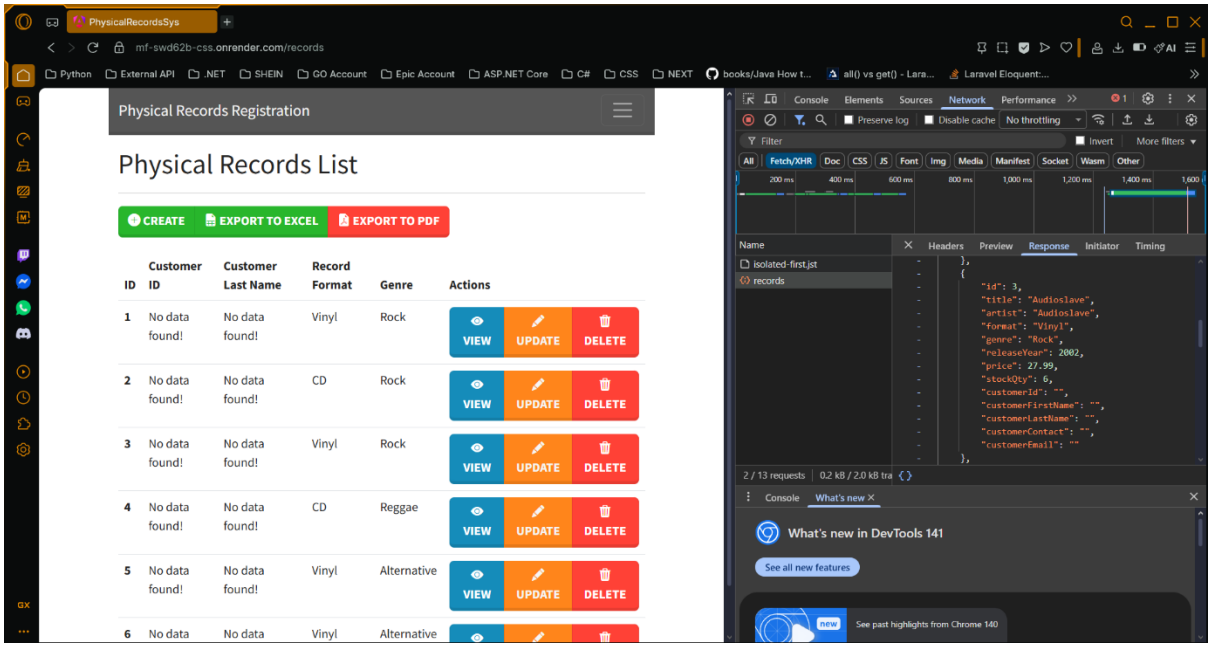
Formats



KU2.3 - Execute the GET request to retrieve all records from within the API documentation using the version of the API that enforces authentication






PhysicalRecordsSys
mf-swd62b-css.onrender.com/records
Physical Records Registration
Physical Records List
CREATE
EXPORT TO EXCEL
EXPORT TO PDF
ID
Customer ID
Customer Last Name
Record Format
Genre
Actions
1 No data found! No data found! Vinyl Rock VIEW UPDATE DELETE
2 No data found! No data found! CD Rock VIEW UPDATE DELETE
3 No data found! No data found! Vinyl Rock VIEW UPDATE DELETE
4 No data found! No data found! CD Reggae VIEW UPDATE DELETE
5 No data found! No data found! Vinyl Alternative VIEW UPDATE DELETE
6 No data No data Vinyl Alternative
Console
Elements
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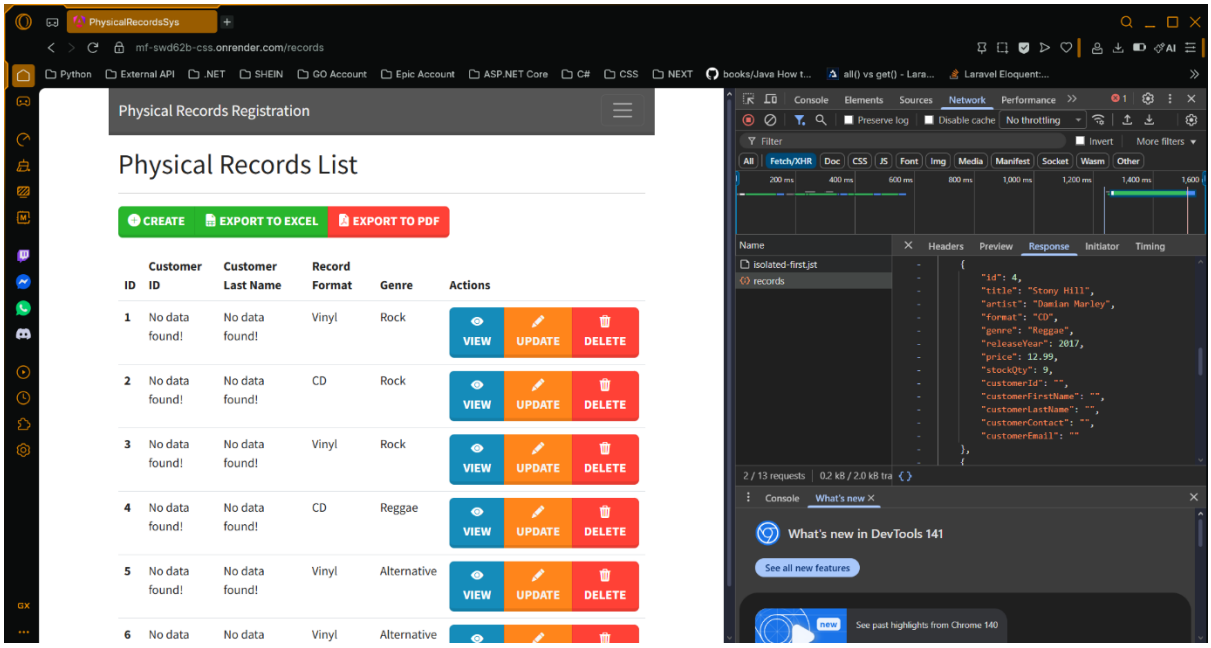
Network
Performance
Response
Headers
Preview
Initiator
Timing
isolated-first.jst
records
"id": 3,
"title": "Audioslave",
"artist": "Audioslave",
"format": "Vinyl",
"genre": "Rock",
"releaseYear": 2002,
"price": 27.99,
"stockQty": 6,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
What's new in DevTools 141
See all new features
See past highlights from Chrome 140


PhysicalRecordsSys
mf-swd62b-css.onrender.com/records
Physical Records Registration
Physical Records List
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Console
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Performance
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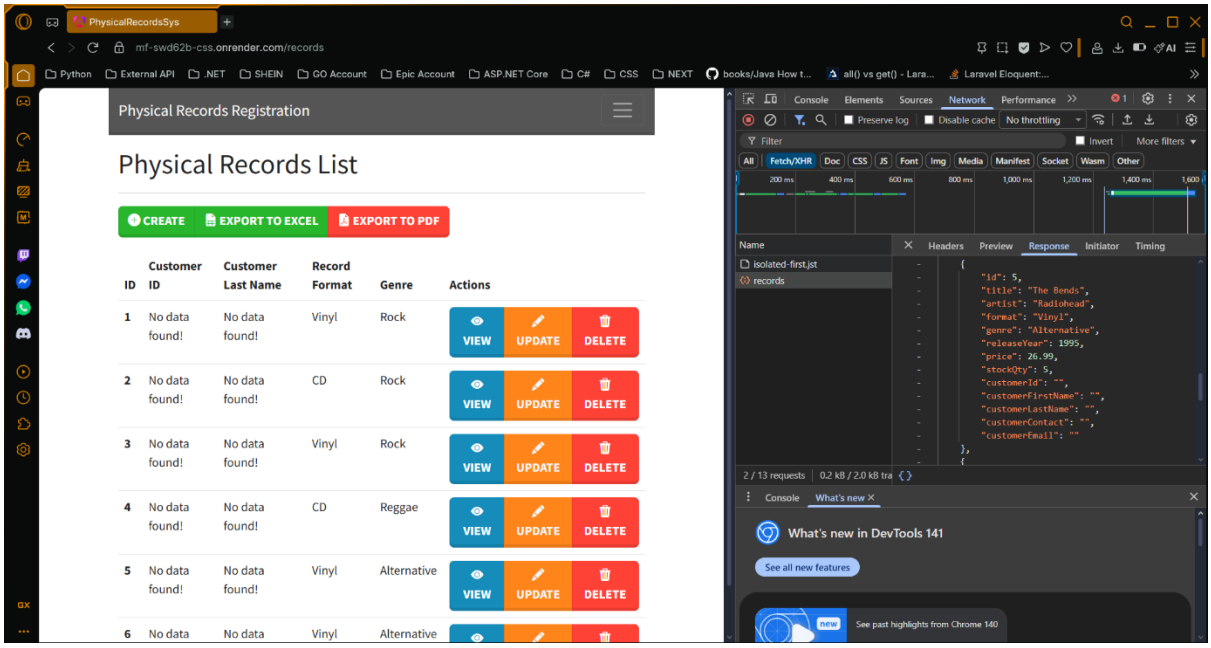
Preview
Initiator
Timing
isolated-first.jst
records
"id": 4,
"title": "Stony Hill",
"artist": "Damian Marley",
"format": "CD",
"genre": "Reggae",
"releaseYear": 2017,
"price": 12.99,
"stockQty": 9,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
What's new in DevTools 141
See all new features
See past highlights from Chrome 140


PhysicalRecordsSys
mf-swd62b-css.onrender.com/records
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Physical Records List
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5 No data found! No data found! Vinyl Alternative VIEW UPDATE DELETE
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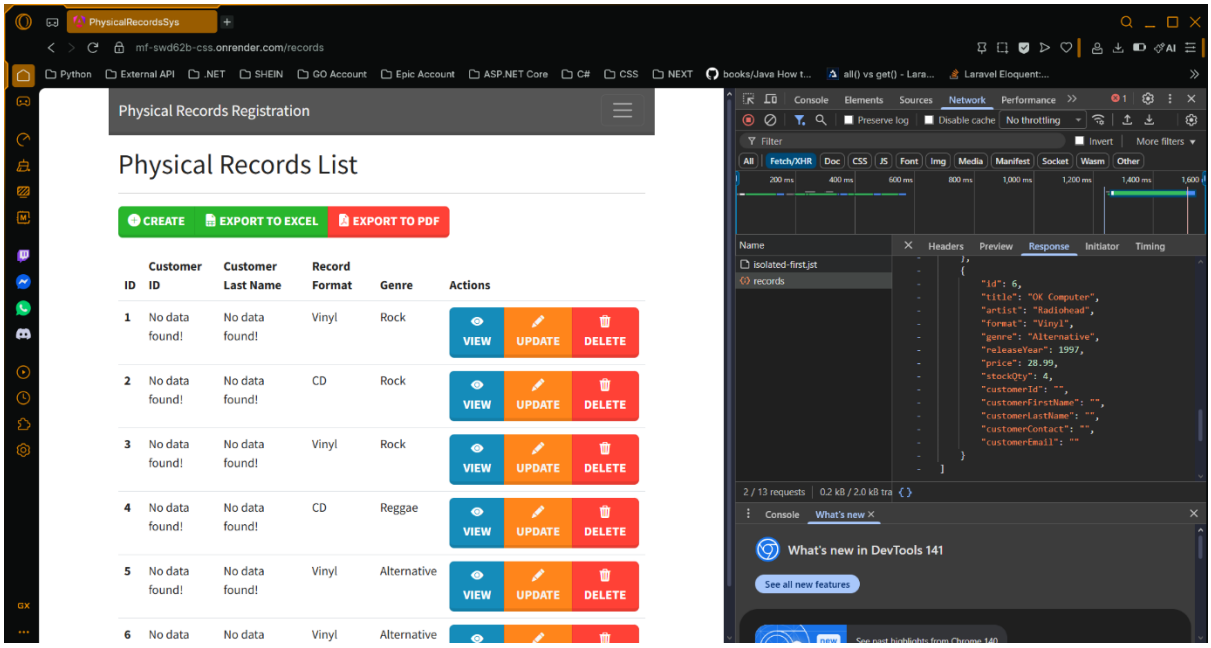
records
"id": 5,
"title": "The Bends",
"artist": "Radiohead",
"format": "Vinyl",
"genre": "Alternative",
"releaseYear": 1995,
"price": 26.99,
"stockQty": 5,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
2 / 13 requests
What's new in DevTools 141
See all new features
See past highlights from Chrome 140


PhysicalRecordsSys
mf-swd62b-css.onrender.com/records
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Physical Records List
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Performance
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Preview
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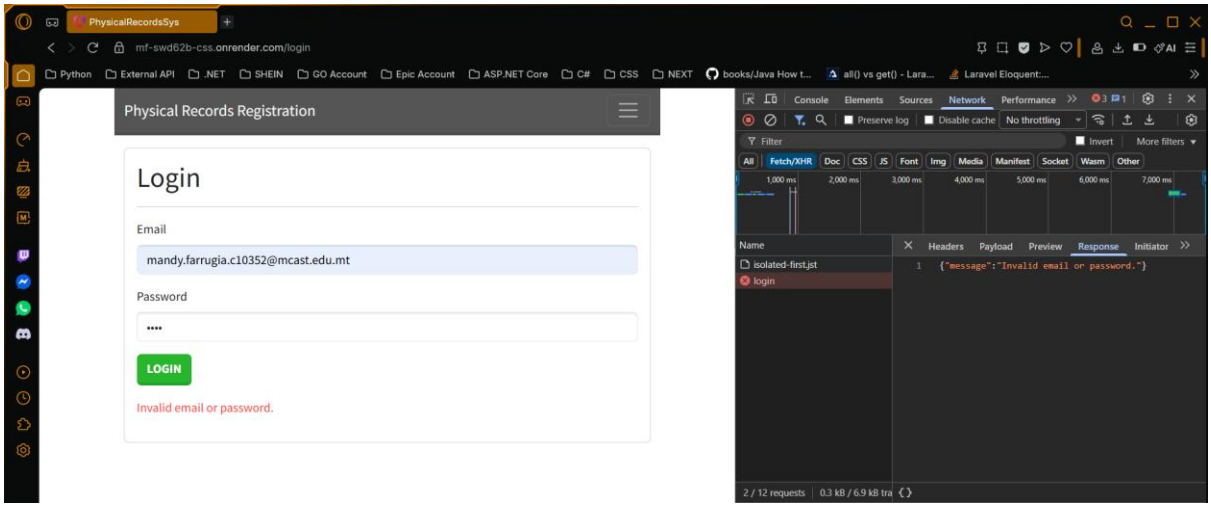
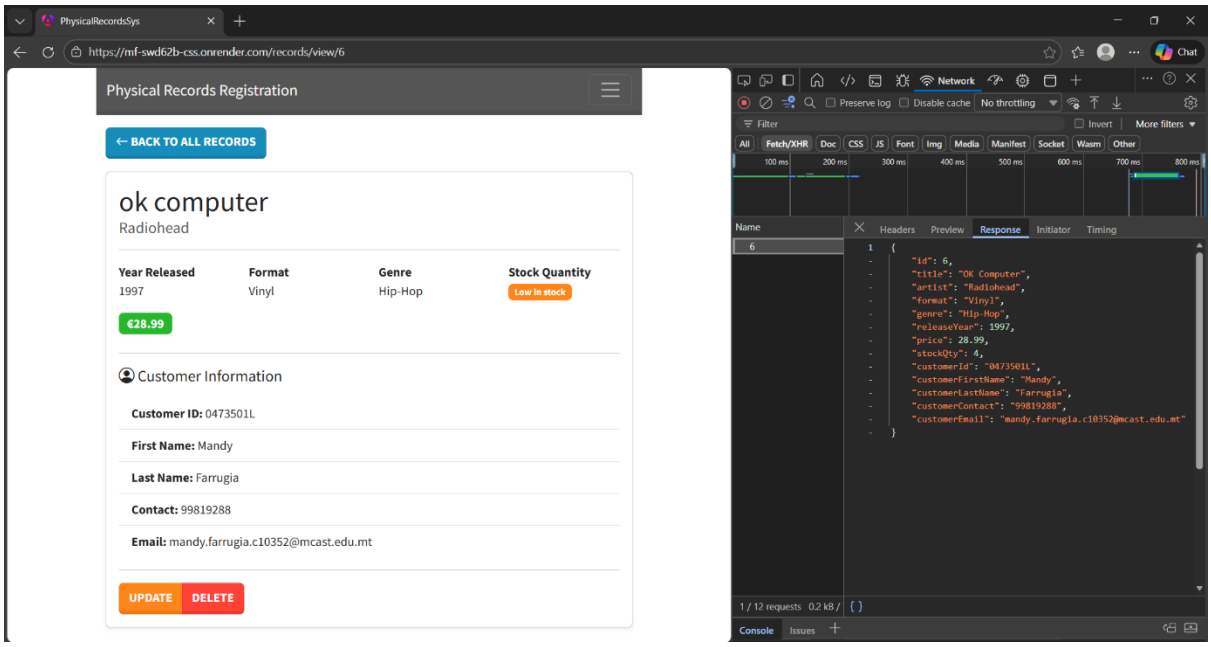
Timing
isolated-first.jst
records
"id": 6,
"title": "OK Computer",
"artist": "Radiohead",
"format": "Vinyl",
"genre": "Alternative",
"releaseYear": 1997,
"price": 28.99,
"stockQty": 4,
"customerId": "",
"customerFirstName": "",
"customerLastName": "",
"customerContact": "",
"customerEmail": ""
2 / 13 requests
What's new in DevTools 141
See all new features

SE2.2 – Display error message when login fails

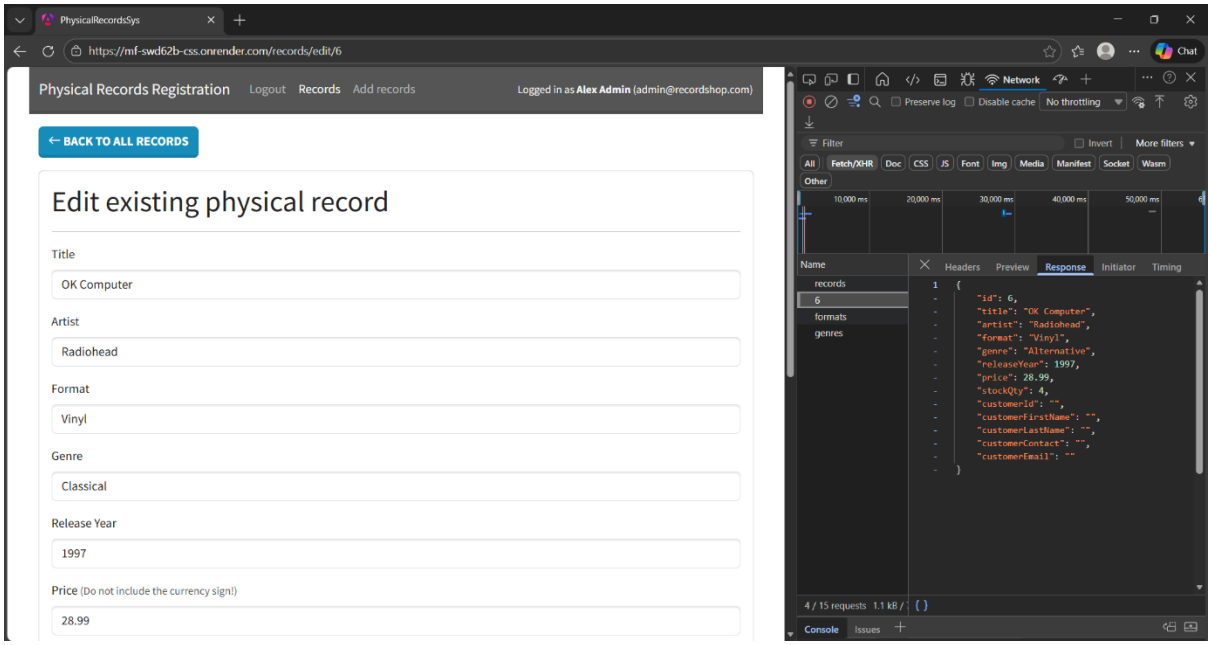


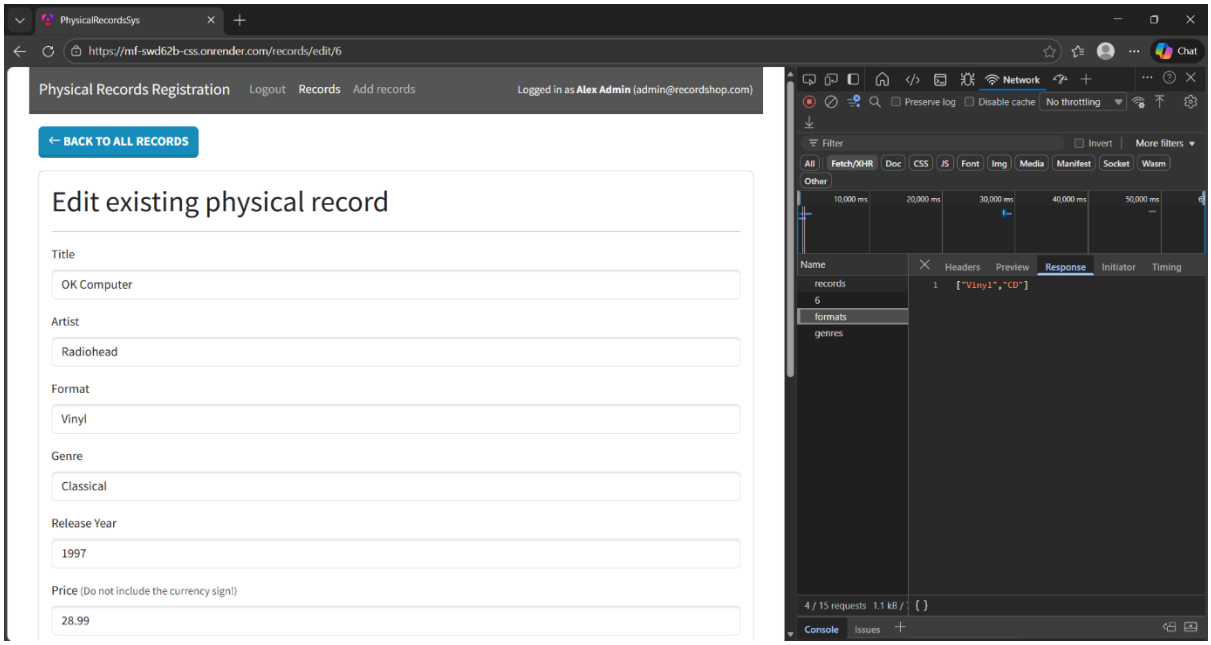
SE1.1 - Develop a web application front-end using common concepts such as data binding, events, and methods

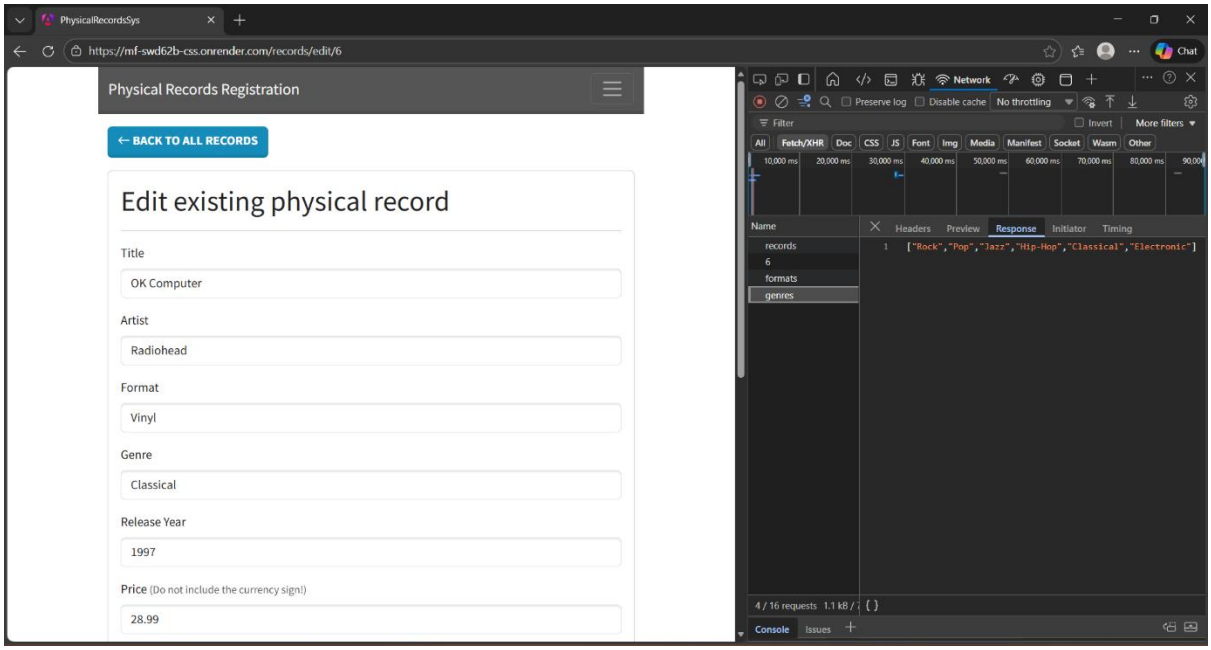
Viewing individual record



Editing existing record

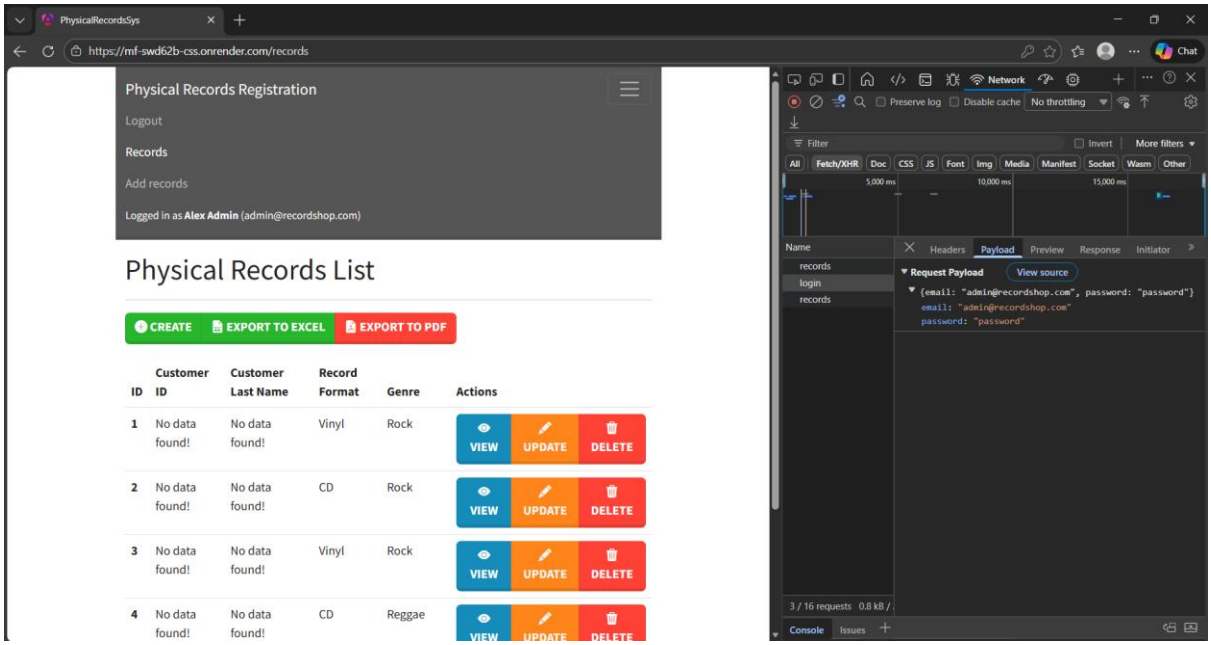




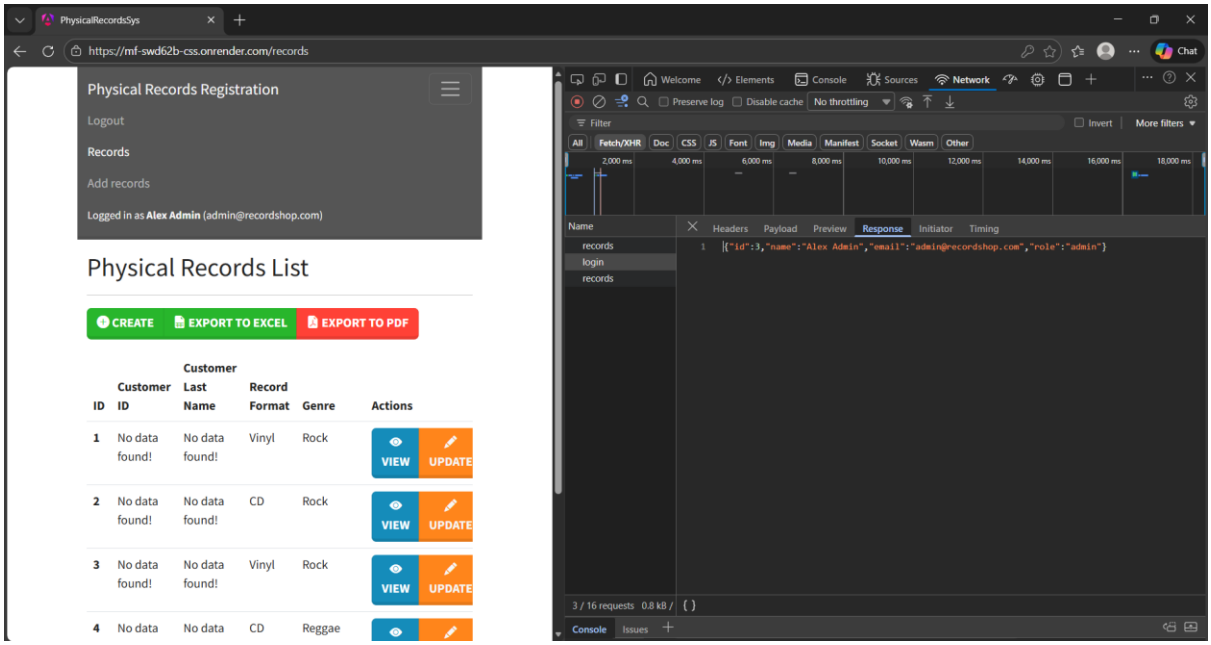


SE2.2 – Redirect user to list of records if login succeeds

Payload



Response



KU2.4 - Implement the necessary functionality to ensure that a user is only able to go to a particular route if he/she has the appropriate user role

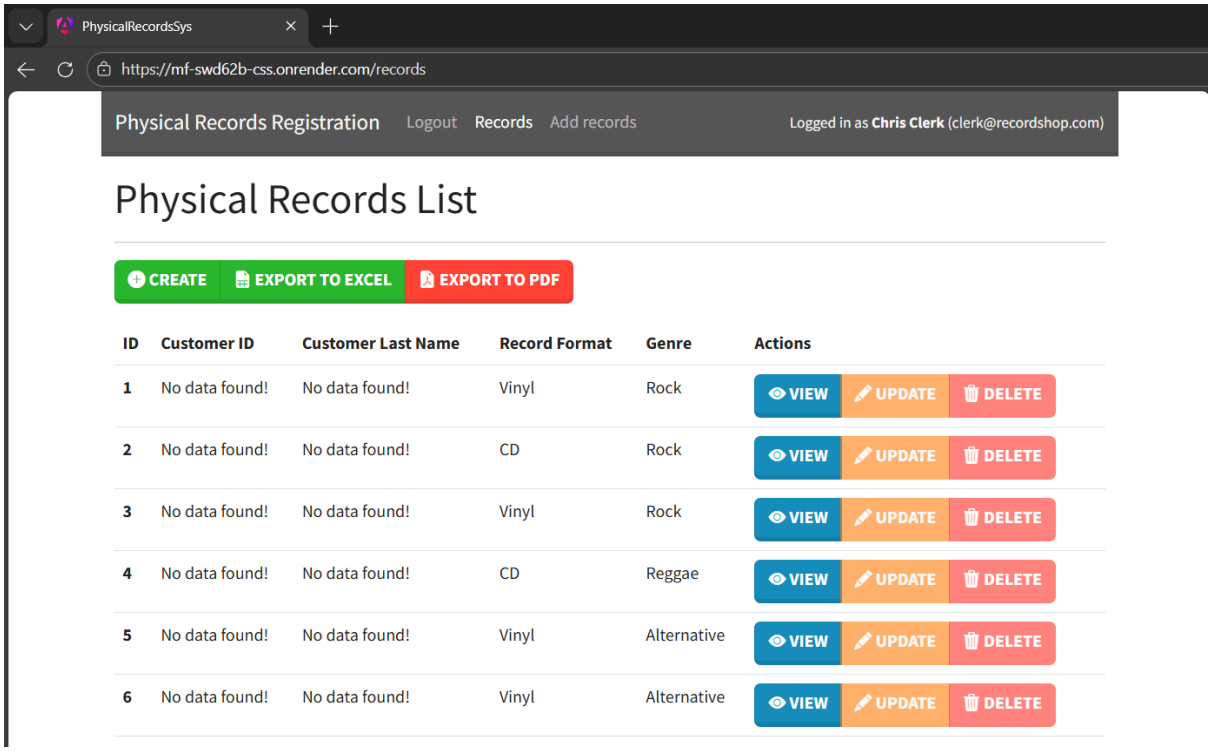
frontend > physical_records_sys > src > guards > role-guard.ts > roleGuard

You, 1 hour ago | 2 authors (You and one other)

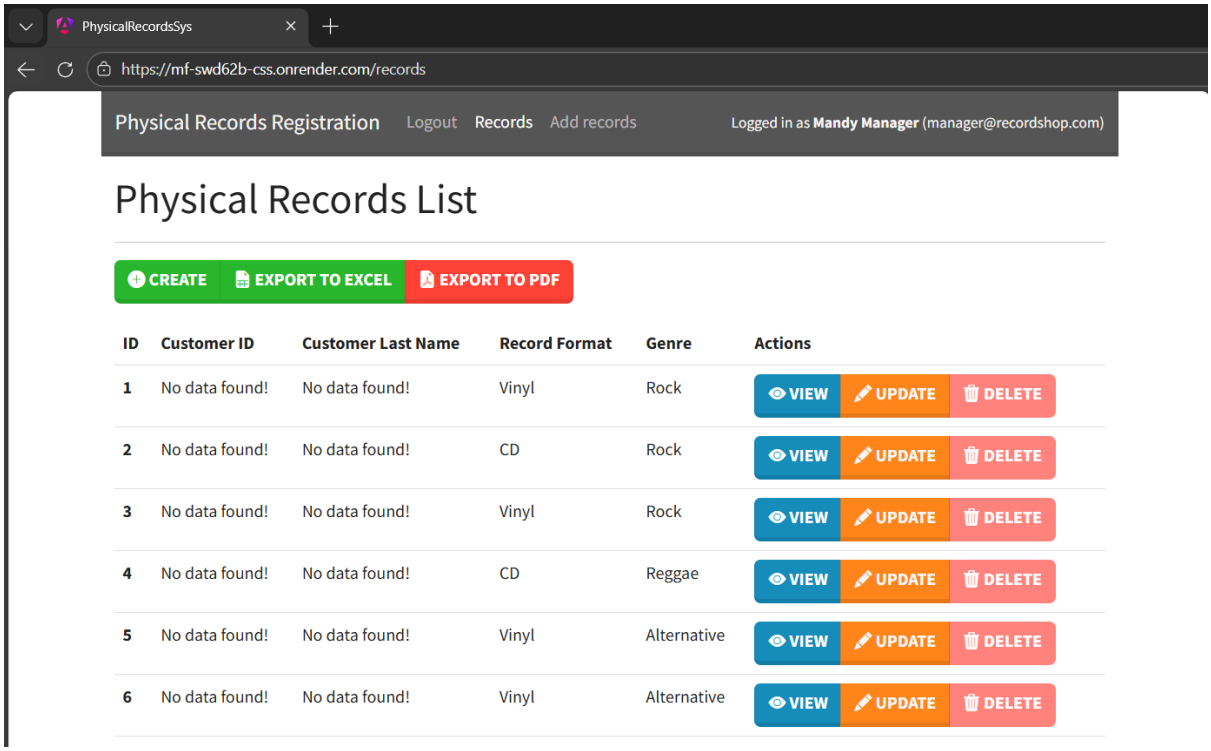
```typescript
import { inject } from '@angular/core';
import { CanActivateFn, Router } from '@angular/router';
import { AuthenticationService } from '../services/authentication-service';

export const roleGuard: CanActivateFn = (route, state) => {
  const authenticationService = inject(AuthenticationService);
  const router = inject(Router);

  const allowedRoles = route.data['roles'] as string[]; //Fetch the roles metadata specified within data in the routing configuration.

  if (!authenticationService.isAuthenticated()) {
    router.navigate(['/login']); //Override default navigation by redirecting user to the login page instead if they are not yet authenticated.
    return false; //Block navigation to the path specified in routerLink.
  }

  //If no roles are specified (hence accessible by either anoymous or any logged in user) or any role can access this route, then allow access.
  if (!allowedRoles || allowedRoles.includes(authenticationService.user!.role)) {
    return true;
  }

  router.navigate(['/records']);      You, last week • Guarding seems to be working. …
  return false; //Block navigation to the path specified in routerLink.
};
```

KU2.4 - Ensure that buttons are only enabled if the user has the required user role associated with the functionality of the button

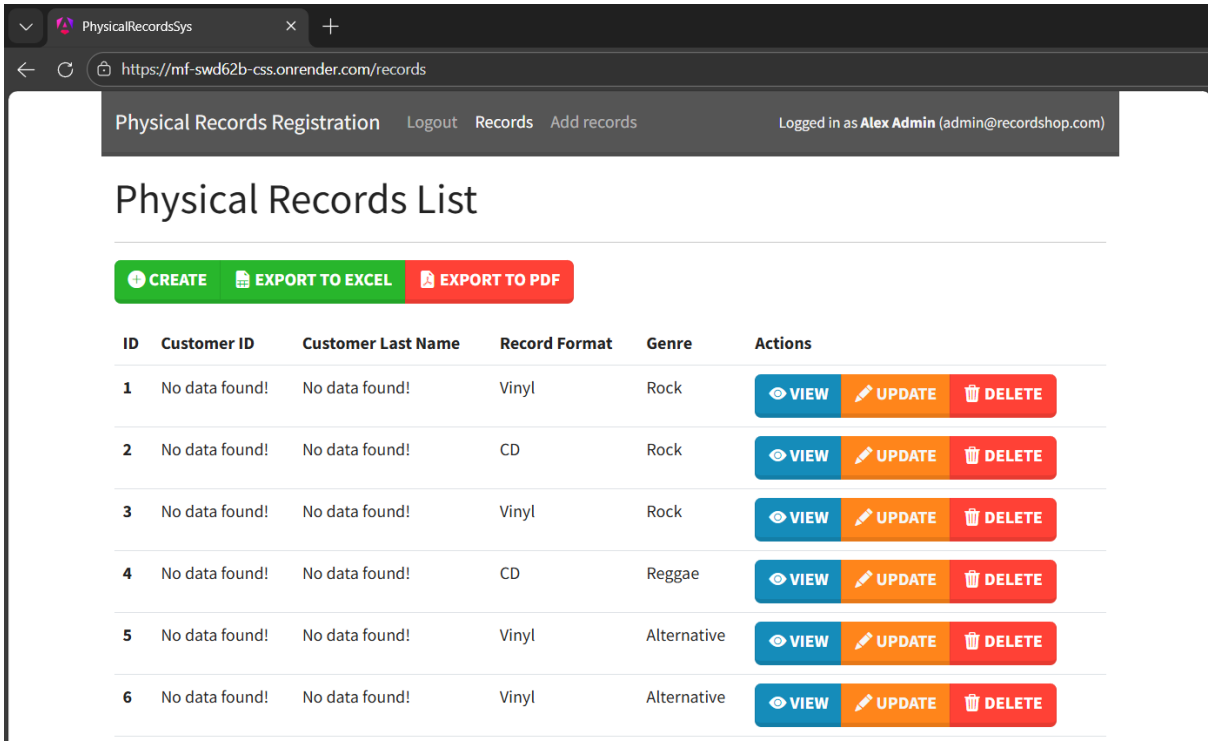
Clerk



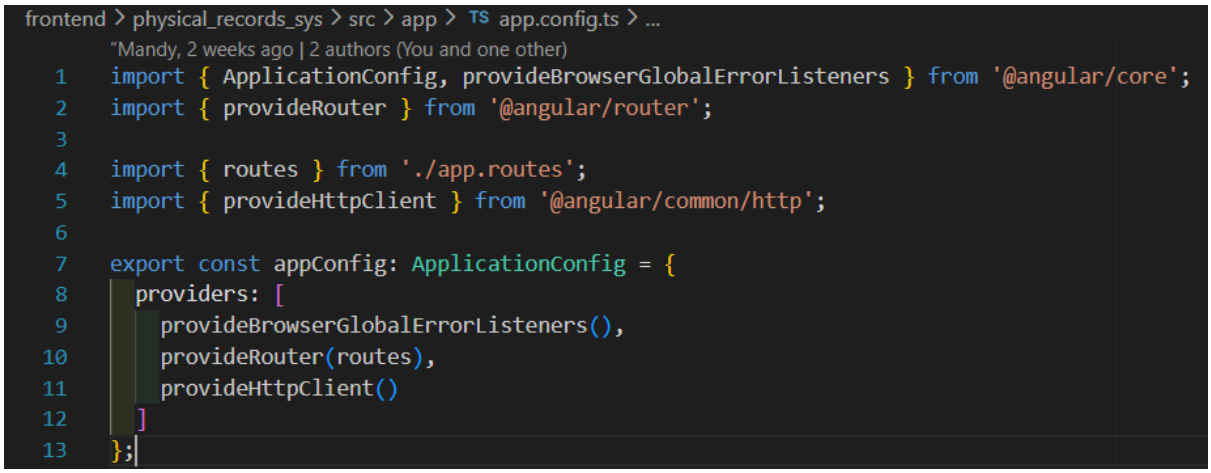
Manager



Administrator



KU4.1 – Enabling routing



```ts
import { Routes } from '@angular/router';
import { RecordsListComponent } from '../components/records-list-component/records-list-component';
import { LoginComponent } from '../components/login-component/login-component';
import { RecordsAddNewComponent } from '../components/records-add-new-component/records-add-new-component';
import { roleGuard } from '../guards/role-guard';
import { RecordsEditComponent } from '../components/records-edit-component/records-edit-component';
import { RecordIndividualViewComponent } from '../components/record-individual-view-component/record-individual-view-component';
import { NotFoundComponent } from '../components/not-found-component/not-found-component';

export const routes: Routes = [
    { path: '', redirectTo: 'records', pathMatch: 'full' },
    { path: 'login', component: LoginComponent },
    {
      path: 'records',      You, 23 hours ago • Only authenticated users can view records.
      component: RecordsListComponent,
      canActivate: [roleGuard],
      data: { roles: ['clerk', 'manager', 'admin'] }
    },
    {
      path: 'records/view/:id',
      component: RecordIndividualViewComponent,
      canActivate: [roleGuard],
      data: { roles: ['clerk', 'manager', 'admin'] }
    },
    {
      path: 'records/add-new',
      component: RecordsAddNewComponent,
      canActivate: [roleGuard],
      data: { roles: ['clerk', 'manager', 'admin'] }
    },
    {
      path: 'records/edit/:id',
      component: RecordsEditComponent,
      canActivate: [roleGuard],
      data: { roles: ['manager', 'admin'] }
    },
```

```ts
      path: 'records/edit/:id',
      component: RecordsEditComponent,
      canActivate: [roleGuard],
      data: { roles: ['manager', 'admin'] }
    },
    { path: 'error-404-not-found', component: NotFoundComponent },
    { path: '**', component: NotFoundComponent, pathMatch: 'full' }
];
```

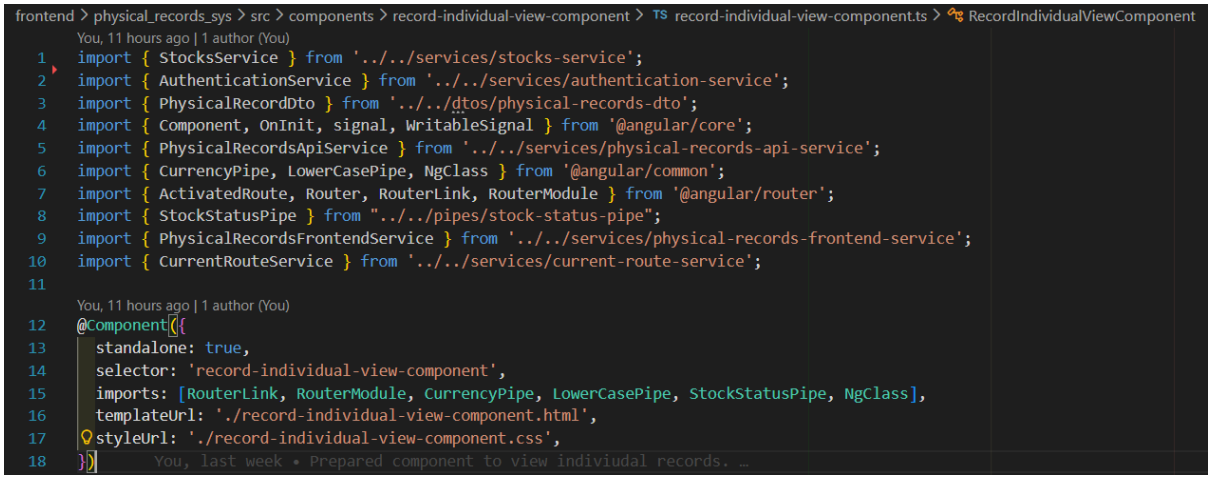
KU4.1 - Use routing to control which component is rendered in the content area of the main component

frontend > physical_records_sys > src > app > app.html > div.container.mt-3 > router-outlet

You, last week | 2 authors (You and one other) | Go to component

```html
<header-component></header-component>
<div class="container mt-3">
  <router-outlet></router-outlet>      You, last week • Working on the view component,
</div>
```

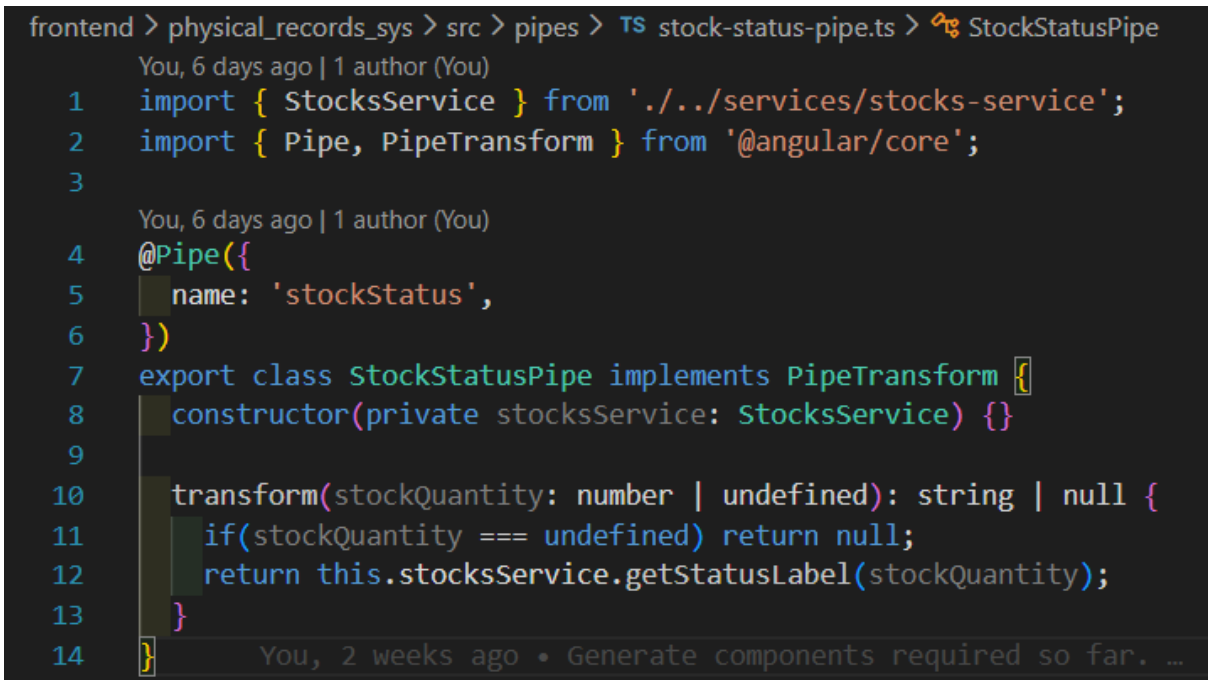
AA3.2 - Built-in lowercase pipe



```
frontend > physical_records_sys > src > components > record-individual-view-component > TS record-individual-view-component.ts > RecordIndividualViewComponent
You, 11 hours ago | 1 author (You)
1  import { StocksService } from '../../services/stocks-service';
2  import { AuthenticationService } from '../../services/authentication-service';
3  import { PhysicalRecordDto } from '../../dtos/physical-records-dto';
4  import { Component, OnInit, signal, WritableSignal } from '@angular/core';
5  import { PhysicalRecordsApiService } from '../../services/physical-records-api-service';
6  import { CurrencyPipe, LowerCasePipe, NgClass } from '@angular/common';
7  import { ActivatedRoute, Router, RouterLink, RouterModule } from '@angular/router';
8  import { StockStatusPipe } from "../../pipes/stock-status-pipe";
9  import { PhysicalRecordsFrontendService } from '../../services/physical-records-frontend-service';
10 import { CurrentRouteService } from '../../services/current-route-service';
11
   You, 11 hours ago | 1 author (You)
12 @Component({
13   standalone: true,
14   selector: 'record-individual-view-component',
15   imports: [RouterLink, RouterModule, CurrencyPipe, LowerCasePipe, StockStatusPipe, NgClass],
16   templateUrl: './record-individual-view-component.html',
17   styleUrl: './record-individual-view-component.css',
18 })      You, last week • Prepared component to view indiviudal records. …
```

```
frontend > physical_records_sys > src > components > record-individual-view-component > <> record-individual-view-component.html >
You, 5 hours ago | 1 author (You) | Go to component
1  <div class="mb-3">
2    <button class="btn btn-primary" type="button" routerLink="/records">
3      <i class="bi bi-arrow-left"></i>
4      Back to all records
5    </button>
6  </div>
7  <div class="card shadow-sm">
8    <div class="card-body">
9      <div class="mb-3">
10       <h1 class="card-title mb-0">
11         {{ this.recordById()?.title | lowercase }}
12       </h1>
```

AA3.2 – Custom pipe implementation



```
frontend > physical_records_sys > src > pipes > TS stock-status-pipe.ts > StockStatusPipe
You, 6 days ago | 1 author (You)
1  import { StocksService } from './../services/stocks-service';
2  import { Pipe, PipeTransform } from '@angular/core';
3
   You, 6 days ago | 1 author (You)
4  @Pipe({
5    name: 'stockStatus',
6  })
7  export class StockStatusPipe implements PipeTransform {
8    constructor(private stocksService: StocksService) {}
9
10   transform(stockQuantity: number | undefined): string | null {
11     if(stockQuantity === undefined) return null;
12     return this.stocksService.getStatusLabel(stockQuantity);
13   }
14 }      You, 2 weeks ago • Generate components required so far. …
```

AA3.2 – Custom pipe usage in user interface

frontend > physical_records_sys > src > components > record-individual-view-component > record-individual-view-component.html > div.card.shadow-sm > div.card-body >

```
31      <div class="col-md-3">
32        <strong>Stock Quantity</strong>
33        <p class="mb-0"><span [ngClass]="this.getCssClassBasedOnStock(this.recordById()?.stockQty)">{{ this.recordById()?.stockQty |
          stockStatus }}</span></p>
34      </div>
```

AA3.4 - Implement a data transfer object to model a registration

TS physical-records-dto.ts

frontend > physical_records_sys > src > dtos > TS physical-records-dto.ts > PhysicalRecordDto > customerContact

You, last week | 2 authors (You and one other)

```
1   export interface PhysicalRecordDto {
2       id: number;
3       title: string;
4       artist: string;
5       format: string;
6       genre: string;
7       releaseYear: number;
8       price: number;
9       stockQty: number;
10      customerId: string;
11      customerFirstName: string;
12      customerLastName: string;
13      customerContact: string;        You, last week • Renamed formControlName for each element accord…
14      customerEmail: string;
15  }
```

AA3.4 – Implement the necessary HTTP requests

frontend > physical_records_sys > src > services > TS physical-records-api-service.ts > PhysicalRecordsApiService > updatePhysicalRecord

You, 23 hours ago | 3 authors ("Mandy and others)

```
1   import { environment } from '../environments/environment';
2   import { HttpClient } from '@angular/common/http';
3   import { Injectable } from '@angular/core';
4   import { Observable } from 'rxjs';
5   import { PhysicalRecordDto } from '../dtos/physical-records-dto';
6
```

You, 23 hours ago | 3 authors ("Mandy and others)

```
7   @Injectable({
8     providedIn: 'root',
9   })
10  export class PhysicalRecordsApiService {
11    private readonly endpoint: string = `${environment.apiUrl}/records`;
12
13    constructor(private http: HttpClient) {}
14
15    public getPhysicalRecords() : Observable<PhysicalRecordDto[]> {
16      return this.http.get<PhysicalRecordDto[]>(this.endpoint);
17    }
18
19    public getPhysicalRecordById(id : number) : Observable<PhysicalRecordDto> {
20      return this.http.get<PhysicalRecordDto>(`${this.endpoint}/${id}`);
21    }
22
23    public createPhysicalRecord(record : PhysicalRecordDto) : Observable<PhysicalRecordDto> {
24      return this.http.post<PhysicalRecordDto>(this.endpoint, record);
25    }
26
27    public updatePhysicalRecord(id : number, record : PhysicalRecordDto) : Observable<PhysicalRecordDto> {
28      return this.http.put<PhysicalRecordDto>(`${this.endpoint}/${id}`, record);
29    }
30
31    public deletePhysicalRecord(id : number) : Observable<void> {
32      return this.http.delete<void>(`${this.endpoint}/${id}`);
33    }
34  }
```

AA4.2 - An ID card number shall consist of a numeric string with an alphabetical character at the end

Customer ID

ID Number (for example, 0473501L)

ID must start with 0, contain 7 digits, and end with A, G, H, M, or L.

Customer ID

473501L

ID must start with 0, contain 7 digits, and end with A, G, H, M, or L.

Customer ID

0473501l

ID must start with 0, contain 7 digits, and end with A, G, H, M, or L.

Customer ID

0473501K

ID must start with 0, contain 7 digits, and end with A, G, H, M, or L.

AA4.2 - Contact number must be numeric, non-negative and at least 8 characters long

Customer Contact Number

Customer's phone number (for example, 99819288)

A valid contact number is required.

Customer Contact Number

-99819288

A valid contact number is required.

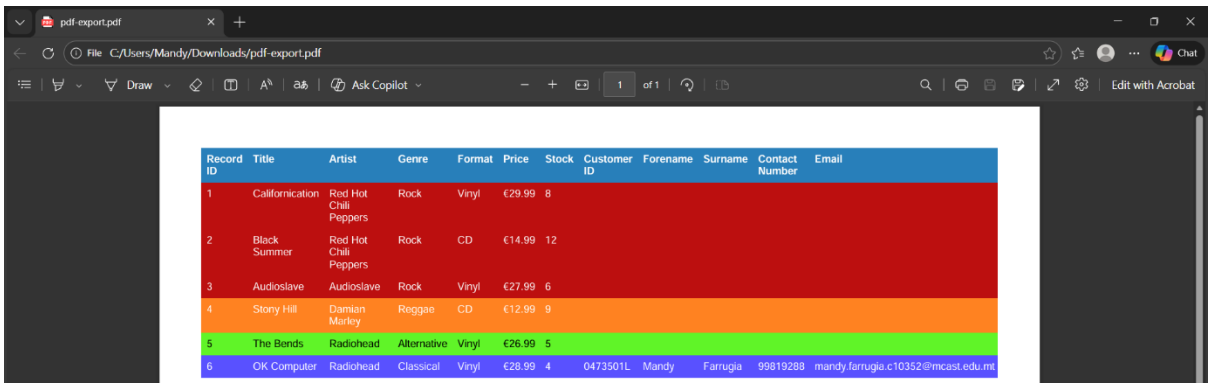
Customer Contact Number

9981928

A valid contact number is required.

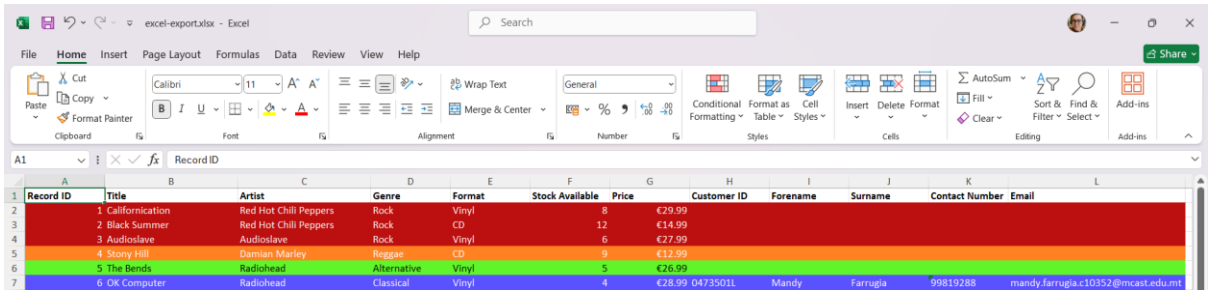
SE2.1 – Exporting records

PDF



Record ID	Title	Artist	Genre	Format	Price	Stock	Customer ID	Forename	Surname	Contact Number	Email
1	Californication	Red Hot Chili Peppers	Rock	Vinyl	€29.99	8					
2	Black Summer	Red Hot Chili Peppers	Rock	CD	€14.99	12					
3	Audioslave	Audioslave	Rock	Vinyl	€27.99	6					
4	Stony Hill	Damian Marley	Reggae	CD	€12.99	9					
5	The Bends	Radiohead	Alternative	Vinyl	€26.99	5					
6	OK Computer	Radiohead	Classical	Vinyl	€28.99	4	0473501L	Mandy	Farrugia	99819288	mandy.farrugia.c10352@mcast.edu.mt

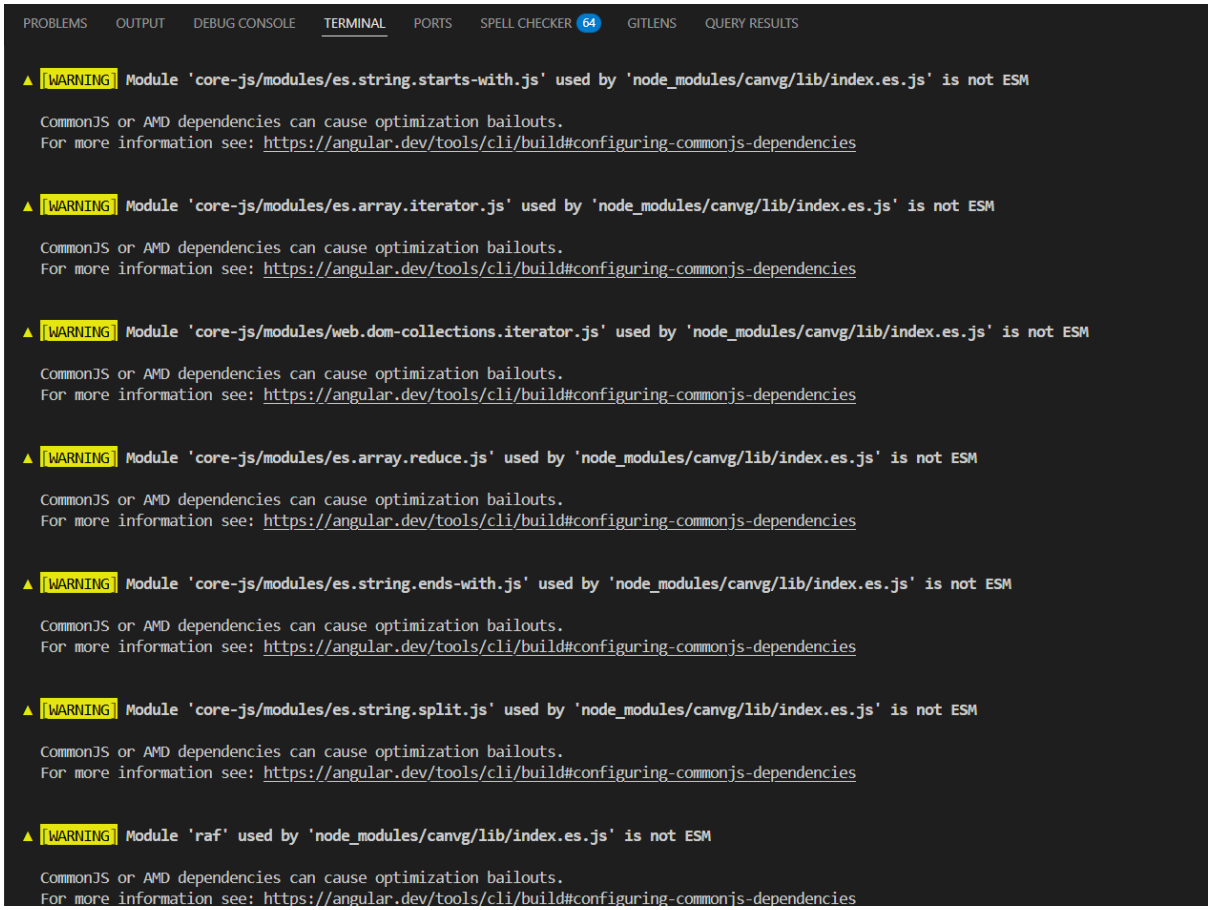
Excel

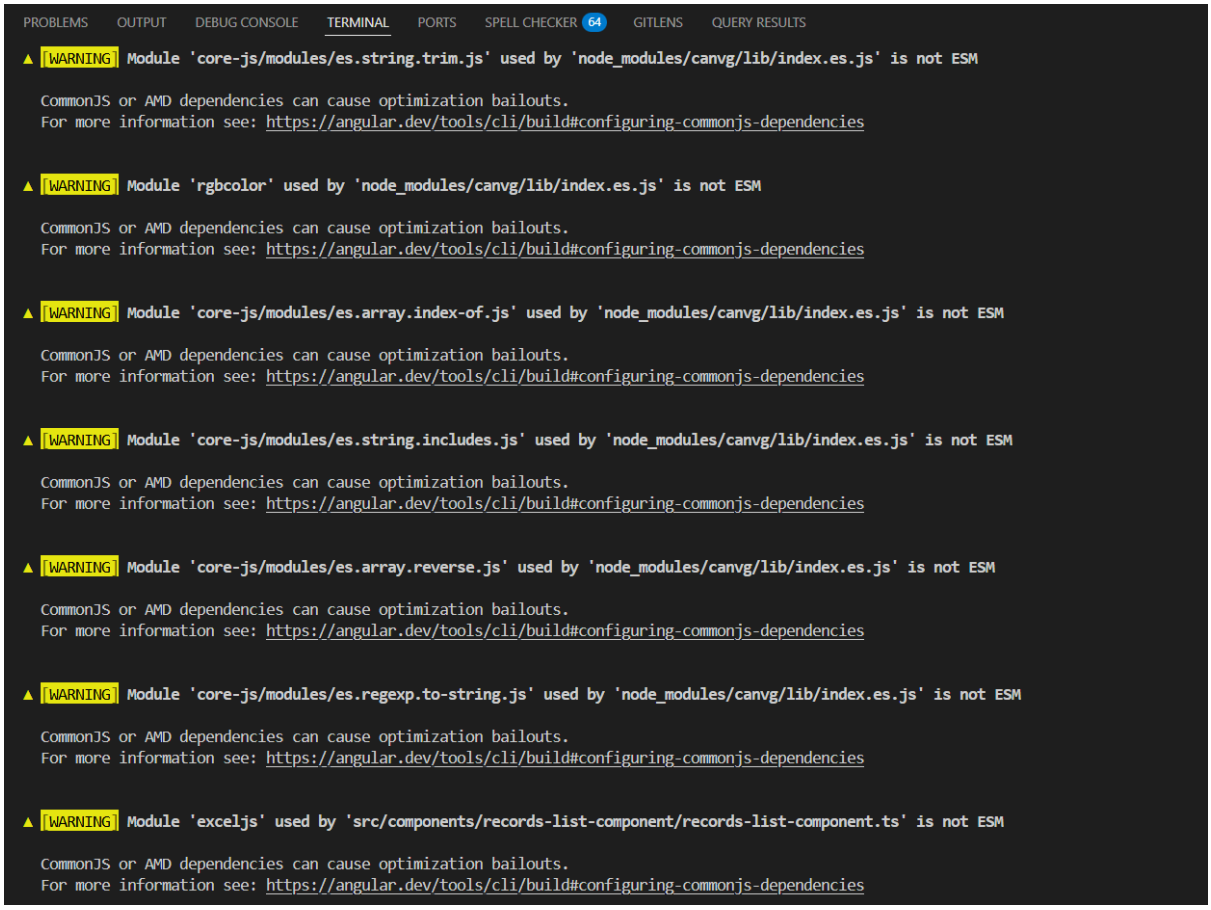


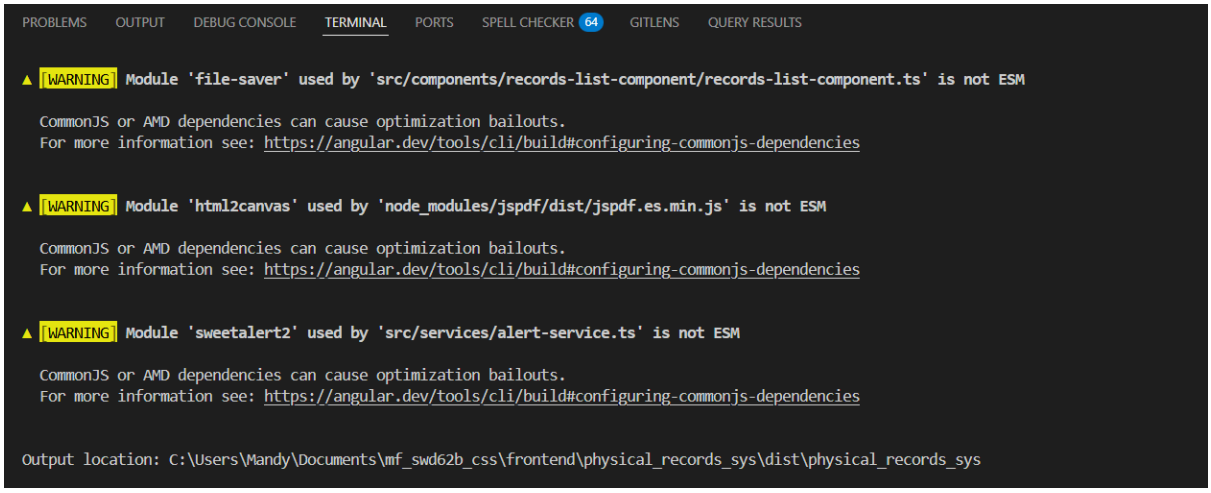
Record ID	Title	Artist	Genre	Format	Stock Available	Price	Customer ID	Forename	Surname	Contact Number	Email
1	Californication	Red Hot Chili Peppers	Rock	Vinyl	8	€29.99					
2	Black Summer	Red Hot Chili Peppers	Rock	CD	12	€14.99					
3	Audioslave	Audioslave	Rock	Vinyl	6	€27.99					
4	Stony Hill	Damian Marley	Reggae	CD	9	€12.99					
5	The Bends	Radiohead	Alternative	Vinyl	5	€26.99					
6	OK Computer	Radiohead	Classical	Vinyl	4	€28.99	0473501L	Mandy	Farrugia	99819288	mandy.farrugia.c10352@mcast.edu.mt

KU4.3 - Build the app optimized for production

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  SPELL CHECKER 64  GITLENS  QUERY RESULTS

Mandy@DESKTOP-S43VD18 MINGW64 ~/Documents/mf_swd62b_css/frontend/physical_records_sys (main)
$ ng build --configuration production
Initial chunk files | Names         |  Raw size | Estimated transfer size
main-BH262K73.js    | main          |   1.82 MB |               440.51 kB
styles-52SRFYNS.css | styles        | 362.09 kB |                38.86 kB
scripts-I7GEKR7L.js | scripts       | 163.22 kB |                40.86 kB
chunk-E6TGZIGP.js   | -             |   1.15 kB |                508 bytes
chunk-FK6H3RFT.js   | -             | 272 bytes |                272 bytes

                    | Initial total |   2.35 MB |               521.02 kB

Lazy chunk files    | Names         |  Raw size | Estimated transfer size
chunk-WAUUKARO.js   | html2canvas   | 203.21 kB |                38.58 kB
chunk-BIFCGGAP.js   | index-es      | 158.66 kB |                46.86 kB
chunk-E5HE7SIG.js   | purify-es     |  22.37 kB |                 7.75 kB

Application bundle generation complete. [19.530 seconds] - 2026-01-15T18:02:00.317Z

▲ [WARNING] Module 'core-js/modules/es.promise.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM

  CommonJS or AMD dependencies can cause optimization bailouts.
  For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies


▲ [WARNING] Module 'core-js/modules/es.string.match.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM

  CommonJS or AMD dependencies can cause optimization bailouts.
  For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies


▲ [WARNING] Module 'core-js/modules/es.string.replace.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM

  CommonJS or AMD dependencies can cause optimization bailouts.
  For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies


▲ [WARNING] Module 'core-js/modules/es.string.starts-with.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM

  CommonJS or AMD dependencies can cause optimization bailouts.
  For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
```


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER 64 GITLENS QUERY RESULTS
▲ [WARNING] Module 'core-js/modules/es.string.starts-with.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.array.iterator.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/web.dom-collections.iterator.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.array.reduce.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.string.ends-with.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.string.split.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'raf' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies


PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS SPELL CHECKER 64 GITLENS QUERY RESULTS
▲ [WARNING] Module 'core-js/modules/es.string.trim.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'rgbcolor' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.array.index-of.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.string.includes.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.array.reverse.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'core-js/modules/es.regexp.to-string.js' used by 'node_modules/canvg/lib/index.es.js' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies
▲ [WARNING] Module 'exceljs' used by 'src/components/records-list-component/records-list-component.ts' is not ESM
CommonJS or AMD dependencies can cause optimization bailouts.
For more information see: https://angular.dev/tools/cli/build#configuring-commonjs-dependencies



KU4.3 – Use a free hosting service to host the Angular application