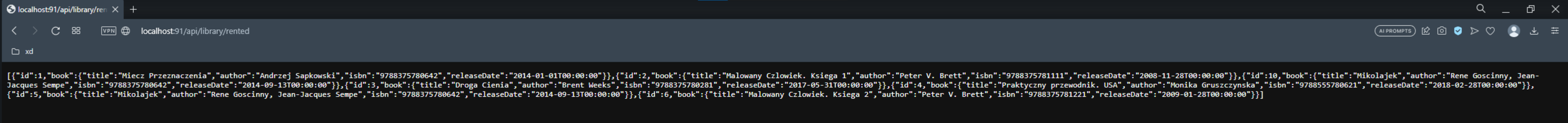Notification Service started!

Library.WebApi

```
info: Microsoft.AspNetCore.DataProtection.KeyManagement.XmlKeyManager[0]
      User profile is available. Using 'C:\Users\mipig\AppData\Local\ASP.NET\DataProtection-Keys' as key repository and
Windows DPAPI to encrypt keys at rest.
warn: Microsoft.AspNetCore.Server.Kestrel[0]
      Overriding address(es) 'http://localhost:60214/'. Binding to endpoints defined in UseKestrel() instead.
Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.WebApi
Now listening on: http://localhost:91
Application started. Press Ctrl+C to shut down.
```

Library.Web

```
info: Microsoft.AspNetCore.DataProtection.KeyManagement.XmlKeyManager[0]
      User profile is available. Using 'C:\Users\mipig\AppData\Local\ASP.NET\DataProtection-Keys' as key repository and
Windows DPAPI to encrypt keys at rest.
info: Microsoft.AspNetCore.DataProtection.KeyManagement.XmlKeyManager[58]
      Creating key {baeae01d-6c9f-4a04-a6e8-52248cfc9609} with creation date 2023-06-02 16:15:43Z, activation date 2023-
06-02 16:15:43Z, and expiration date 2023-08-31 16:15:43Z.
info: Microsoft.AspNetCore.DataProtection.Repositories.FileSystemXmlRepository[39]
      Writing data to file 'C:\Users\mipig\AppData\Local\ASP.NET\DataProtection-Keys\key-baeae01d-6c9f-4a04-a6e8-52248cf
c9609.xml'.
warn: Microsoft.AspNetCore.Server.Kestrel[0]
      Overriding address(es) 'http://localhost:60211/'. Binding to endpoints defined in UseKestrel() instead.
Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.Web
Now listening on: http://localhost:90
Application started. Press Ctrl+C to shut down.
```

C:\Program Files\dotnet\dotnet.exe

```
Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.NotificationService2
Now listening on: http://localhost:60215
Application started. Press Ctrl+C to shut down.
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:60215/
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 283.8188ms 200
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:60215/favicon.ico
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 214.9095ms 200
```

[{"id":1,"book":{"title":"Miecz Przeznaczenia","author":"Andrzej Sapkowski","isbn":"9788375780642","releaseDate":"2014-01-01T00:00:00"}},{"id":2,"book":{"title":"Malowany Czlowiek. Ksiega 1","author":"Peter V. Brett","isbn":"9788375781111","releaseDate":"2008-11-28T00:00:00"}},{"id":10,"book":{"title":"Mikolajek","author":"Rene Goscinny, Jean-Jacques Sempe","isbn":"9788375780642","releaseDate":"2014-09-13T00:00:00"}},{"id":3,"book":{"title":"Droga Cienia","author":"Brent Weeks","isbn":"9788375780281","releaseDate":"2017-05-31T00:00:00"}},{"id":4,"book":{"title":"Praktyczny przewodnik. USA","author":"Monika Gruszczynska","isbn":"9788555780621","releaseDate":"2018-02-28T00:00:00"}},{"id":5,"book":{"title":"Mikolajek","author":"Rene Goscinny, Jean-Jacques Sempe","isbn":"9788375780642","releaseDate":"2014-09-13T00:00:00"}},{"id":6,"book":{"title":"Malowany Czlowiek. Ksiega 2","author":"Peter V. Brett","isbn":"9788375781221","releaseDate":"2009-01-28T00:00:00"}}]

Returend list from the library service:

- 1 - Miecz Przeznaczenia, Andrzej Sapkowski
- 2 - Malowany Czlowiek. Ksiega 1, Peter V. Brett
- 10 - Mikolajek, Rene Goscinny, Jean-Jacques Sempe
- 3 - Droga Cienia, Brent Weeks
- 4 - Praktyczny przewodnik. USA, Monika Gruszczynska
- 5 - Mikolajek, Rene Goscinny, Jean-Jacques Sempe
- 6 - Malowany Czlowiek. Ksiega 2, Peter V. Brett

```
C:\ C:\Program Files\dotnet\dotnet.exe

Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.NotificationService2
Now listening on: http://localhost:60215
Application started. Press Ctrl+C to shut down.
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:60215/
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 283.8188ms 200
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:60215/favicon.ico
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 214.9095ms 200
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:60215/api/library/rented
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 3.2069ms 200
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:60215/favicon.ico
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 3.76ms 200
The Miecz Przeznaczenia with id: 1 was rented
```

Browser tab: localhost:91/api/library/ren
localhost:91/api/library/rent/2

xd

Library.WebApi
```
        Overriding address(es) 'http://localhost:60214/'. Binding to endpoints defined in UseKestrel() instead.
Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.WebApi
Now listening on: http://localhost:91
Application started. Press Ctrl+C to shut down.
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
        Request starting HTTP/1.1 GET http://localhost:91/api/library/rent/2
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
        Failed to determine the https port for redirect.
info: Microsoft.AspNetCore.Routing.EndpointMiddleware[0]
        Executing endpoint 'Library.WebApi.Controllers.LibraryController.Rent (Library.WebApi)'
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[3]
        Route matched with {action = "Rent", controller = "Library"}. Executing controller action with signature System.Th
reading.Tasks.Task`1[Microsoft.AspNetCore.Mvc.ActionResult] Rent(Int32) on controller Library.WebApi.Controllers.Library
Controller (Library.WebApi).
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[1]
        Executing action method Library.WebApi.Controllers.LibraryController.Rent (Library.WebApi) - Validation state: Val
id
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[2]
        Executed action method Library.WebApi.Controllers.LibraryController.Rent (Library.WebApi), returned result Microso
ft.AspNetCore.Mvc.OkResult in 663.0568ms.
info: Microsoft.AspNetCore.Mvc.StatusCodeResult[1]
        Executing HttpStatusCodeResult, setting HTTP status code 200
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[2]
        Executed action Library.WebApi.Controllers.LibraryController.Rent (Library.WebApi) in 747.8272ms
info: Microsoft.AspNetCore.Routing.EndpointMiddleware[1]
        Executed endpoint 'Library.WebApi.Controllers.LibraryController.Rent (Library.WebApi)'
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
        Request finished in 897.5284ms 200
```
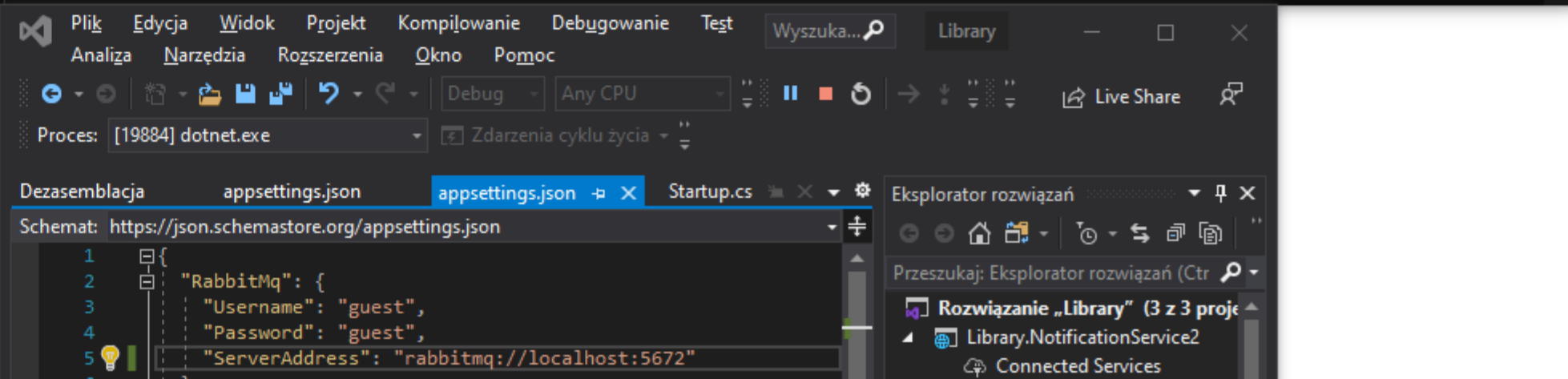
C:\Program Files\dotnet\dotnet.exe
```
Hosting environment: Development
infoContent root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.NotificationService2
Now listening on: http://localhost:60215
Application started. Press Ctrl+C to shut down.
: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
        Request starting HTTP/1.1 GET http://localhost:60215/
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
        Request finished in 247.8607ms 200
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
        Request starting HTTP/1.1 GET http://localhost:60215/favicon.ico
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
        Request finished in 3.5795ms 200
The Malowany Czlowiek. Ksiega 1 with id: 2 was rented
```
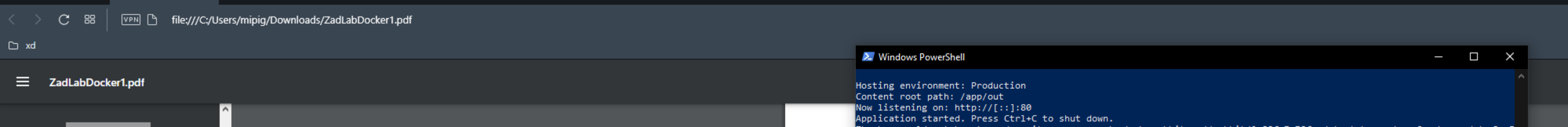
Library.Web
```
info: Microsoft.AspNetCore.DataProtection.KeyManagement.XmlKeyManager[0]
        User profile is available. Using 'C:\Users\mipig\AppData\Local\ASP.NET\DataProtection-Keys' as key repository and
Windows DPAPI to encrypt keys at rest.
warn: Microsoft.AspNetCore.Server.Kestrel[0]
        Overriding address(es) 'http://localhost:60211/'. Binding to endpoints defined in UseKestrel() instead.
Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.Web
Now listening on: http://localhost:90
Application started. Press Ctrl+C to shut down.
```

Visual Studio - Library

Plik Edycja Widok Projekt Kompilowanie Debugowanie Test Wyszuka... Library
Analiza Narzędzia Rozszerzenia Okno Pomoc

Debug Any CPU Live Share

Proces: [19884] dotnet.exe Zdarzenia cyklu życia

Dezasemblacja appsettings.json appsettings.json Startup.cs Eksplorator rozwiązań

Schemat: https://json.schemastore.org/appsettings.json

Przeszukaj: Eksplorator rozwiązań (Ctr

```
1  {
2      "RabbitMq": {
3          "Username": "guest",
4          "Password": "guest",
5          "ServerAddress": "rabbitmq://localhost:5672"
```

Rozwiązanie „Library" (3 z 3 proje
Library.NotificationService2
Connected Services

```
Hosting environment: Production
Content root path: /app/out
Now listening on: http://[::]:80
Application started. Press Ctrl+C to shut down.
```

```
PS C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem> docker inspect my-bridge
[
    {
        "Name": "my-bridge",
        "Id": "98f9d33b3264e0611a6fc355c6805431567c2fefdf45271d1a9902389e7ee48a",
        "Created": "2023-06-02T19:07:34.6400635Z",
        "Scope": "local",
        "Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default",
            "Options": {},
            "Config": [
                {
                    "Subnet": "172.23.0.0/16",
                    "Gateway": "172.23.0.1"
                }
            ]
        },
        "Internal": false,
        "Attachable": false,
        "Ingress": false,
        "ConfigFrom": {
            "Network": ""
        },
        "ConfigOnly": false,
        "Containers": {
            "46711ef9615a25061dcc21d793109220d54fe03eab39f4f1c023e82f1eb859a5": {
                "Name": "notificationservice",
                "EndpointID": "cfcf7edccaba9fe6ee317675425bd6cd1a1677a69fb4b6a338724e01f938d8e6",
                "MacAddress": "02:42:ac:17:00:03",
                "IPv4Address": "172.23.0.3/16",
                "IPv6Address": ""
            },
            "e1d8664897c7a150dbf39938c7ee83b365488a9a98b26bb6473aec9b15c10eeb": {
                "Name": "rabbit",
                "EndpointID": "60e5e0c94827c0e06222ec4b14cf9621c803efc887c8efc0bffb674603da4660",
                "MacAddress": "02:42:ac:17:00:02",
                "IPv4Address": "172.23.0.2/16",
                "IPv6Address": ""
            }
        },
        "Options": {},
        "Labels": {}
    }
]
PS C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem>
```

```
PS C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem> docker commit 46711ef9615a25061dcc21d793109220d54fe03eab39f4f1c023e82f1eb859a5 notificationserviceimg
sha256:aead30745373aaf953a60cd11daf960b98f769332493676e9b52bdbaa326e0e1
PS C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem> docker images
REPOSITORY                                              TAG                                                              IMAGE ID       CREATED         SIZE
notificationserviceimg                                  latest                                                           aead30745373   4 seconds ago   1.76GB
postgres                                                latest                                                           ceccf204404e   7 weeks ago     379MB
deploy4-frontend2                                       latest                                                           6c3dc8b9a360   8 weeks ago     916MB
deploy4-frontend                                        latest                                                           012605fb7e71   8 weeks ago     916MB
deploy4-backend                                         latest                                                           b99ffff4f499   8 weeks ago     889MB
deploy4-backend2                                        latest                                                           6d8a8c030d10   8 weeks ago     889MB
<none>                                                  <none>                                                           58766fc54c17   8 weeks ago     916MB
<none>                                                  <none>                                                           e968c9d14d22   8 weeks ago     916MB
deploy4-internal_load_balancer                          latest                                                           5a7e294fb0d7   8 weeks ago     142MB
deploy4-load_balancer                                   latest                                                           0c0e93ad40bd   8 weeks ago     142MB
jenkins/jenkins                                         latest                                                           2fef055370ae   2 months ago    471MB
rabbitmq                                                management                                                       3d7ae60f605d   2 months ago    270MB
mariadb                                                 latest                                                           4a632f970181   2 months ago    401MB
hubproxy.docker.internal:5000/docker/desktop-kubernetes kubernetes-v1.25.2-cni-v1.1.1-critools-v1.24.2-cri-dockerd-v0.2.5-1-debian 09d7e1dbc2c4   8 months ago    363MB
k8s.gcr.io/kube-apiserver                               v1.25.2                                                          97801f839490   8 months ago    128MB
k8s.gcr.io/kube-controller-manager                      v1.25.2                                                          dbfceb93c69b   8 months ago    117MB
k8s.gcr.io/kube-scheduler                               v1.25.2                                                          ca0ea1ee3cfd   8 months ago    50.6MB
k8s.gcr.io/kube-proxy                                   v1.25.2                                                          1c7d8c51823b   8 months ago    61.7MB
k8s.gcr.io/pause                                        3.8                                                              4873874c08ef   11 months ago   711kB
k8s.gcr.io/etcd                                         3.5.4-0                                                          a8a176a5d5d6   12 months ago   300MB
k8s.gcr.io/coredns                                      v1.9.3                                                           5185b96f0bec   12 months ago   48.8MB
docker/desktop-vpnkit-controller                        v2.0                                                             8c2c38aa676e   2 years ago     21MB
docker/desktop-storage-provisioner                      v2.0                                                             99f89471f470   2 years ago     41.9MB
mcr.microsoft.com/dotnet/core/sdk                       2.2                                                              2357b6790b9d   3 years ago     1.74GB
mcr.microsoft.com/dotnet/core/aspnet                    2.2                                                              e7e3b238011c   3 years ago     261MB
mcr.microsoft.com/dotnet/core/runtime                   2.2                                                              12c2403b3673   3 years ago     181MB
PS C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem>
```
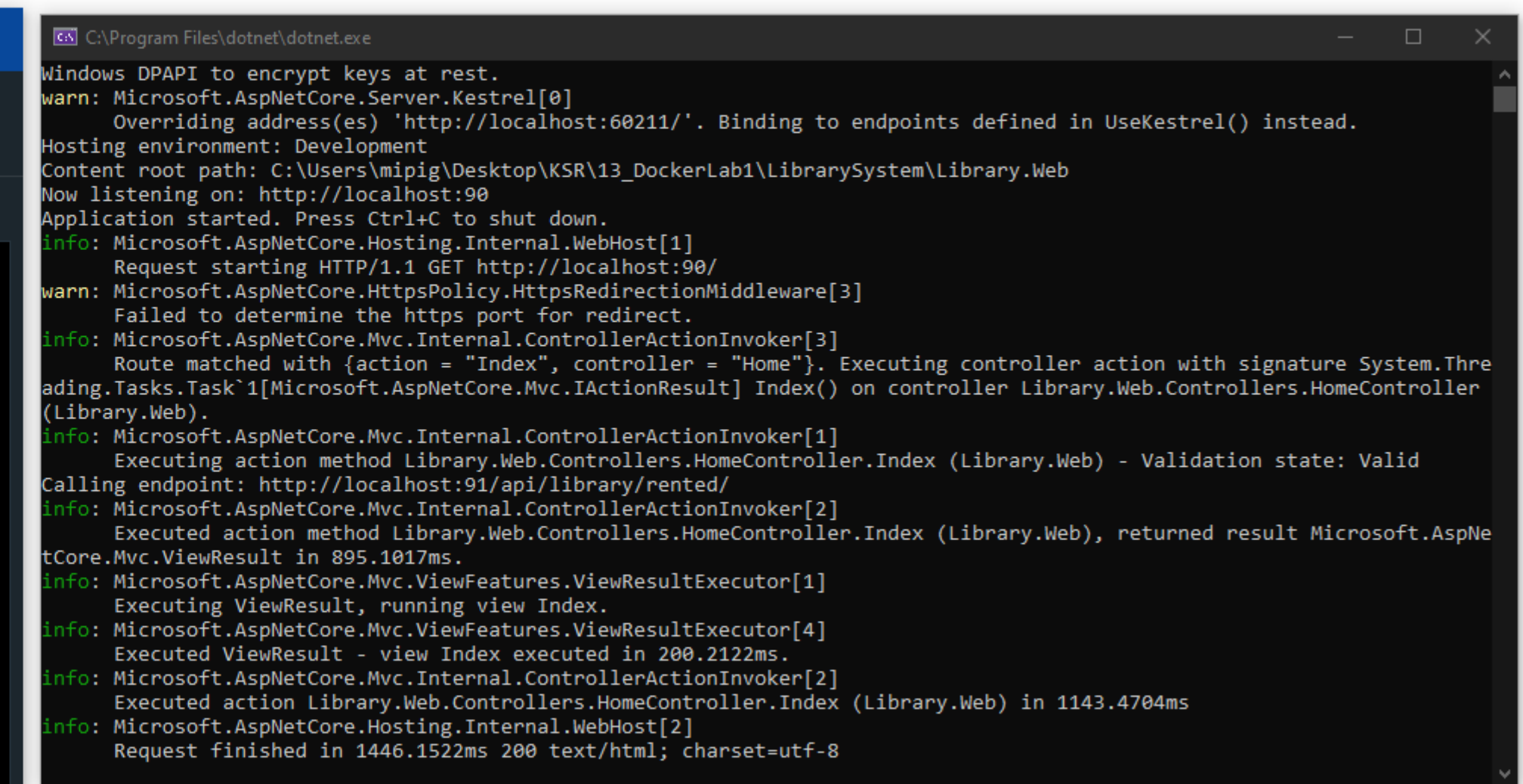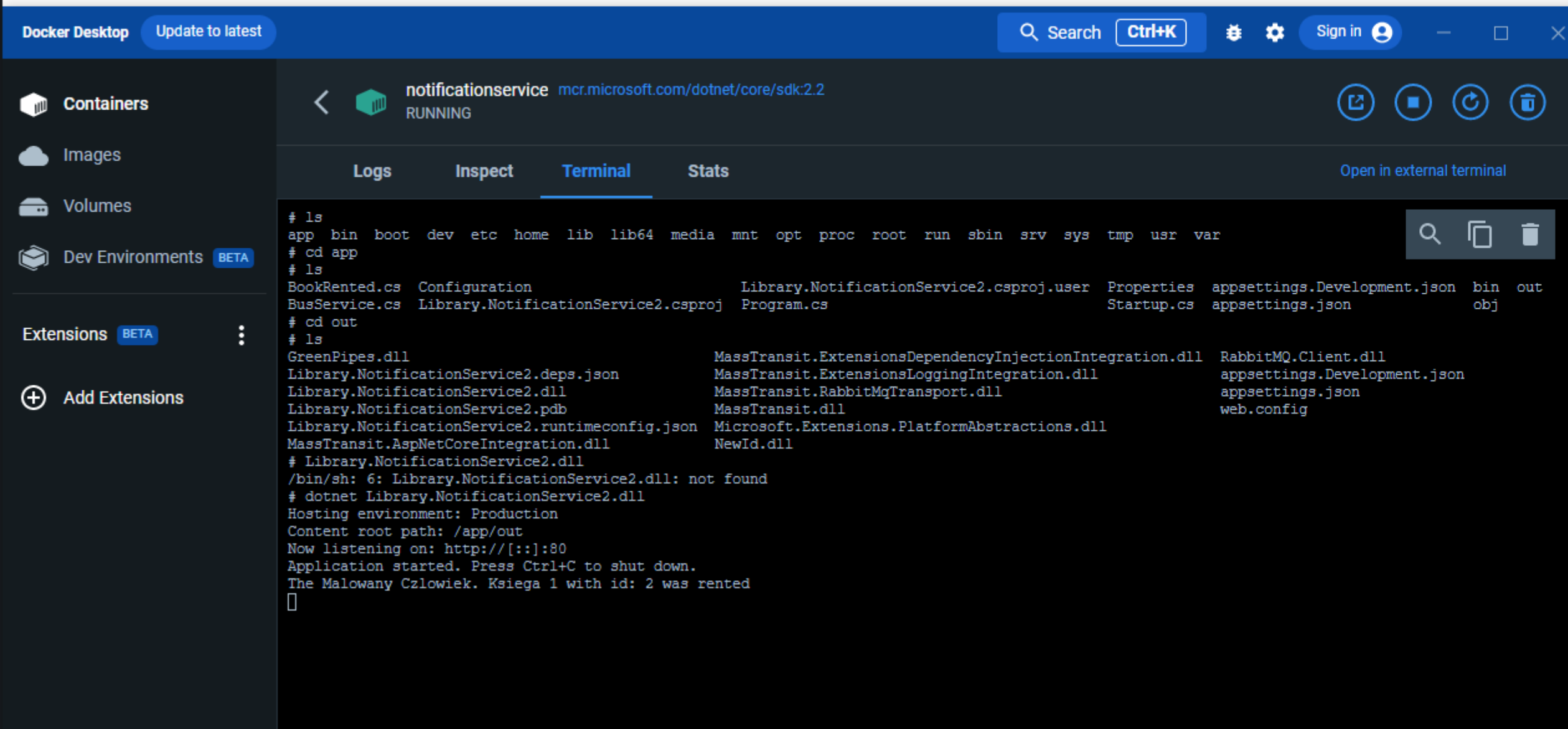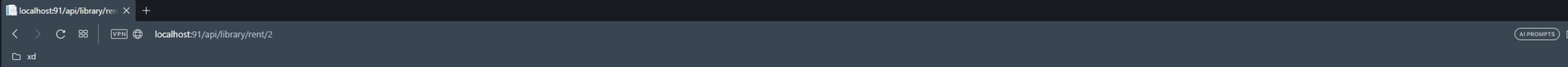
Notification Service started!

xd

Docker Desktop   Update to latest

Search   Ctrl+K

Sign in

Containers

notificationservice   mcr.microsoft.com/dotnet/core/sdk:2.2
RUNNING

Images

Logs   Inspect   Terminal   Stats   Open in external terminal

Volumes

Dev Environments BETA

```
# ls
app  bin  boot  dev  etc  home  lib  lib64  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
# cd app
# ls
BookRented.cs      Configuration                    Library.NotificationService2.csproj.user  Properties    appsettings.Development.json  bin   out
BusService.cs      Library.NotificationService2.csproj  Program.cs                            Startup.cs    appsettings.json              obj
# cd out
# ls
GreenPipes.dll                              MassTransit.ExtensionsDependencyInjectionIntegration.dll  RabbitMQ.Client.dll
Library.NotificationService2.deps.json      MassTransit.ExtensionsLoggingIntegration.dll              appsettings.Development.json
Library.NotificationService2.dll            MassTransit.RabbitMqTransport.dll                         appsettings.json
Library.NotificationService2.pdb            MassTransit.dll                                           web.config
Library.NotificationService2.runtimeconfig.json  Microsoft.Extensions.PlatformAbstractions.dll
MassTransit.AspNetCoreIntegration.dll       NewId.dll
# Library.NotificationService2.dll
/bin/sh: 6: Library.NotificationService2.dll: not found
# dotnet Library.NotificationService2.dll
Hosting environment: Production
Content root path: /app/out
Now listening on: http://[::]:80
Application started. Press Ctrl+C to shut down.
The Malowany Czlowiek. Ksiega 1 with id: 2 was rented
```

Extensions BETA

Add Extensions

C:\Program Files\dotnet\dotnet.exe

```
Windows DPAPI to encrypt keys at rest.
warn: Microsoft.AspNetCore.Server.Kestrel[0]
      Overriding address(es) 'http://localhost:60211/'. Binding to endpoints defined in UseKestrel() instead.
Hosting environment: Development
Content root path: C:\Users\mipig\Desktop\KSR\13_DockerLab1\LibrarySystem\Library.Web
Now listening on: http://localhost:90
Application started. Press Ctrl+C to shut down.
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[1]
      Request starting HTTP/1.1 GET http://localhost:90/
warn: Microsoft.AspNetCore.HttpsPolicy.HttpsRedirectionMiddleware[3]
      Failed to determine the https port for redirect.
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[3]
      Route matched with {action = "Index", controller = "Home"}. Executing controller action with signature System.Thre
ading.Tasks.Task`1[Microsoft.AspNetCore.Mvc.IActionResult] Index() on controller Library.Web.Controllers.HomeController
(Library.Web).
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[1]
      Executing action method Library.Web.Controllers.HomeController.Index (Library.Web) - Validation state: Valid
Calling endpoint: http://localhost:91/api/library/rented/
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[2]
      Executed action method Library.Web.Controllers.HomeController.Index (Library.Web), returned result Microsoft.AspNe
tCore.Mvc.ViewResult in 895.1017ms.
info: Microsoft.AspNetCore.Mvc.ViewFeatures.ViewResultExecutor[1]
      Executing ViewResult, running view Index.
info: Microsoft.AspNetCore.Mvc.ViewFeatures.ViewResultExecutor[4]
      Executed ViewResult - view Index executed in 200.2122ms.
info: Microsoft.AspNetCore.Mvc.Internal.ControllerActionInvoker[2]
      Executed action Library.Web.Controllers.HomeController.Index (Library.Web) in 1143.4704ms
info: Microsoft.AspNetCore.Hosting.Internal.WebHost[2]
      Request finished in 1446.1522ms 200 text/html; charset=utf-8
```

Returend list from the library service:

- 1 - Miecz Przeznaczenia, Andrzej Sapkowski
- 2 - Malowany Czlowiek. Ksiega 1, Peter V. Brett
- 10 - Mikolajek, Rene Goscinny, Jean-Jacques Sempe
- 3 - Droga Cienia, Brent Weeks
- 4 - Praktyczny przewodnik. USA, Monika Gruszczynska
- 5 - Mikolajek, Rene Goscinny, Jean-Jacques Sempe
- 6 - Malowany Czlowiek. Ksiega 2, Peter V. Brett