

Domain specific language in action

Tura - application generation solution

- Generate
- Build
- Deploy



Pre Install

Update hosts file

127.0.0.1 kc
127.0.0.1 wf

Install Jdk 11 +

Install docker

Install node.js

Pre Install (for Win users)

Settings X

General

Resources

Docker Engine

Command Line

Kubernetes

General

Adjust how Docker Desktop behaves according to your preferences.

Start Docker Desktop when you log in

Automatically check for updates

Expose daemon on tcp://localhost:2375 without TLS

Exposing daemon on TCP without TLS helps legacy clients connect to the daemon. It also makes yourself vulnerable to remote code execution attacks. Use with caution.

Use the WSL 2 based engine (Windows Home can only run the WSL 2 backend)
WSL 2 provides better performance than the legacy Hyper-V backend. [Learn more](#).

Send usage statistics
Send error reports, system version and language as well as Docker Desktop lifecycle information (e.g., starts, stops, resets).

Discover experimental features. [Switch to the Edge version](#).

● Docker running Cancel Apply & Restart

Installation

Use git to clone source code
git clone <tura url>

Checkout branch
cd tura
git checkout <branch>

Start tura shell
chmod +x ./processor/tura-gogo.sh
./processor/tura-gogo.sh

Build Eclipse IDE
shell>closure localbuildPluginAndProcessor

Build tura
shell>closure buildPlatform

Installation (for Linux users)

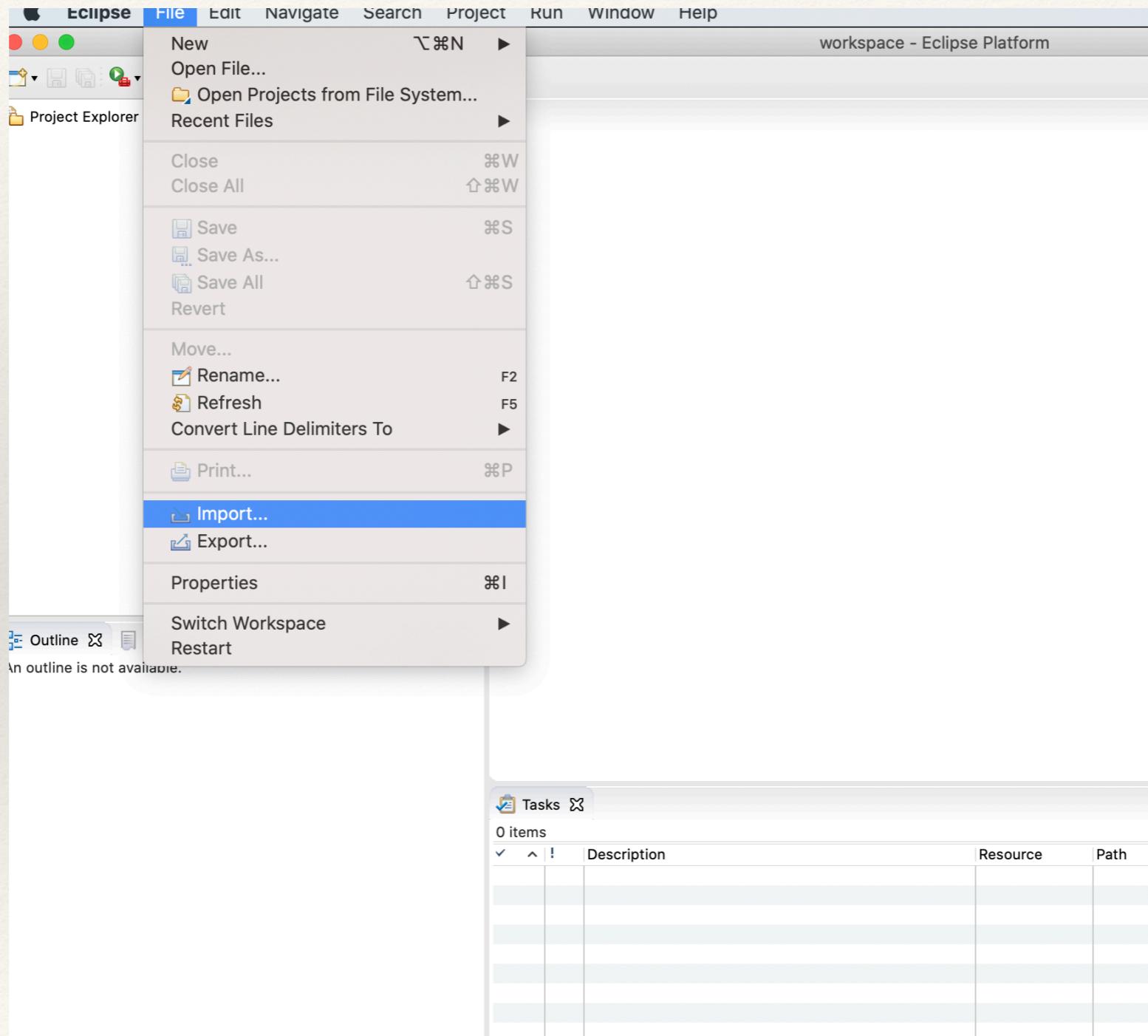
Export variable
>export SWT_GTK3=0

Generated IDE

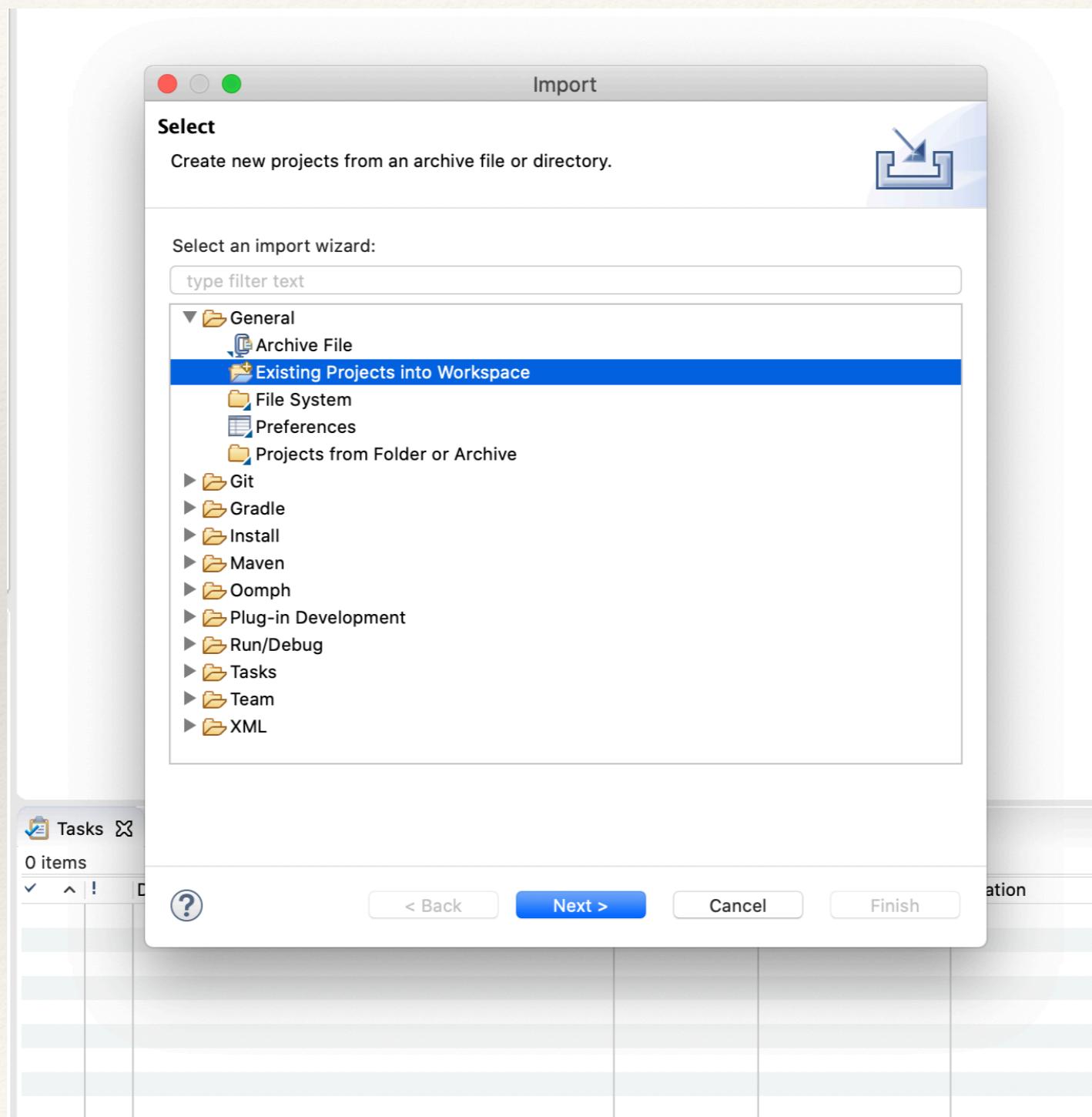
<TURA_HOME>/sirius/site/org.tura.metamodel.site-definition/target/products

Name	Date Modified	Size
.project	Sep 9, 2020 at 3:48 PM	386 bytes
.settings	Sep 9, 2020 at 3:48 PM	-
org.tura.metamodel.site-definition	Today at 12:15 PM	-
.classpath	Sep 9, 2020 at 3:48 PM	369 bytes
.gitignore	Sep 9, 2020 at 3:48 PM	16 bytes
.project	Sep 9, 2020 at 3:48 PM	667 bytes
bin	Sep 14, 2020 at 12:18 PM	-
build.properties	Sep 9, 2020 at 3:48 PM	76 bytes
category.xml	Sep 9, 2020 at 3:48 PM	283 bytes
META-INF	Sep 9, 2020 at 3:48 PM	-
pom.xml	Sep 9, 2020 at 3:48 PM	1 KB
src	Sep 9, 2020 at 3:48 PM	-
target	Today at 12:15 PM	-
category.xml	Sep 14, 2020 at 10:48 AM	283 bytes
extraArtifacts	Sep 14, 2020 at 10:48 AM	-
local-artifacts.properties	Sep 14, 2020 at 10:48 AM	783 bytes
org.eclipse.equinox.executable-3.8.0.v20180518-2029	Sep 14, 2020 at 10:48 AM	-
org.tura.metamodel.site-definition-5.0.2.zip	Sep 14, 2020 at 10:49 AM	382 MB
p2agent	Sep 14, 2020 at 10:49 AM	-
p2artifacts.xml	Sep 14, 2020 at 10:48 AM	2 KB
p2content.xml	Sep 14, 2020 at 10:48 AM	288 KB
products	Sep 14, 2020 at 10:50 AM	-
tura.product	Sep 14, 2020 at 10:50 AM	-
tura.product-linux.gtk.x86_64.zip	Sep 14, 2020 at 10:50 AM	387.7 MB
tura.product-macosx.cocoa.x86_64.zip	Sep 14, 2020 at 10:50 AM	387.7 MB
tura.product-win32.win32.x86_64.zip	Sep 14, 2020 at 10:50 AM	388.1 MB
repository	Sep 14, 2020 at 10:49 AM	-
targetPlatformRepository	Sep 14, 2020 at 10:48 AM	-
tura.product	Sep 9, 2020 at 3:48 PM	57 KB
pom.xml	Sep 9, 2020 at 3:48 PM	571 bytes

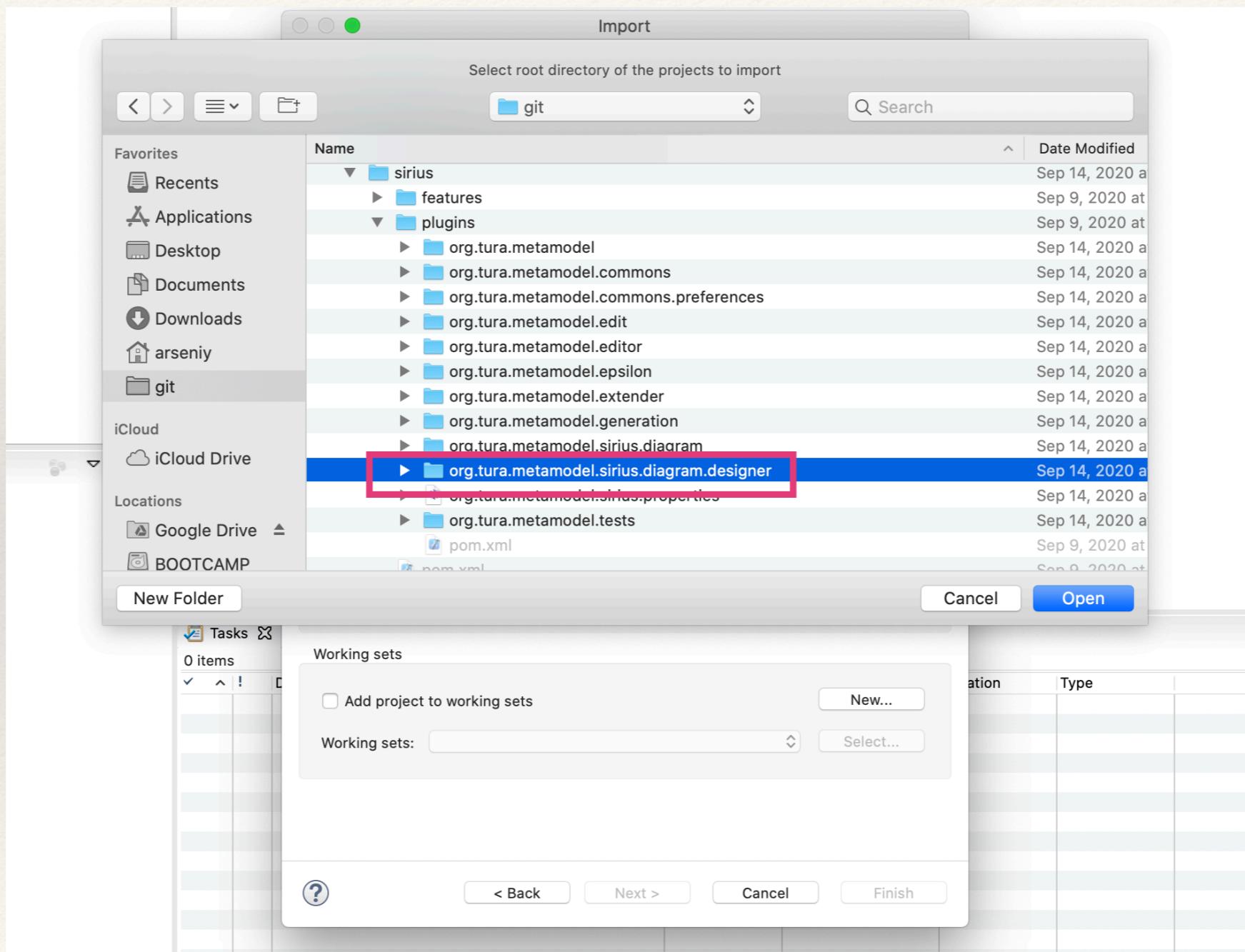
Import model designer



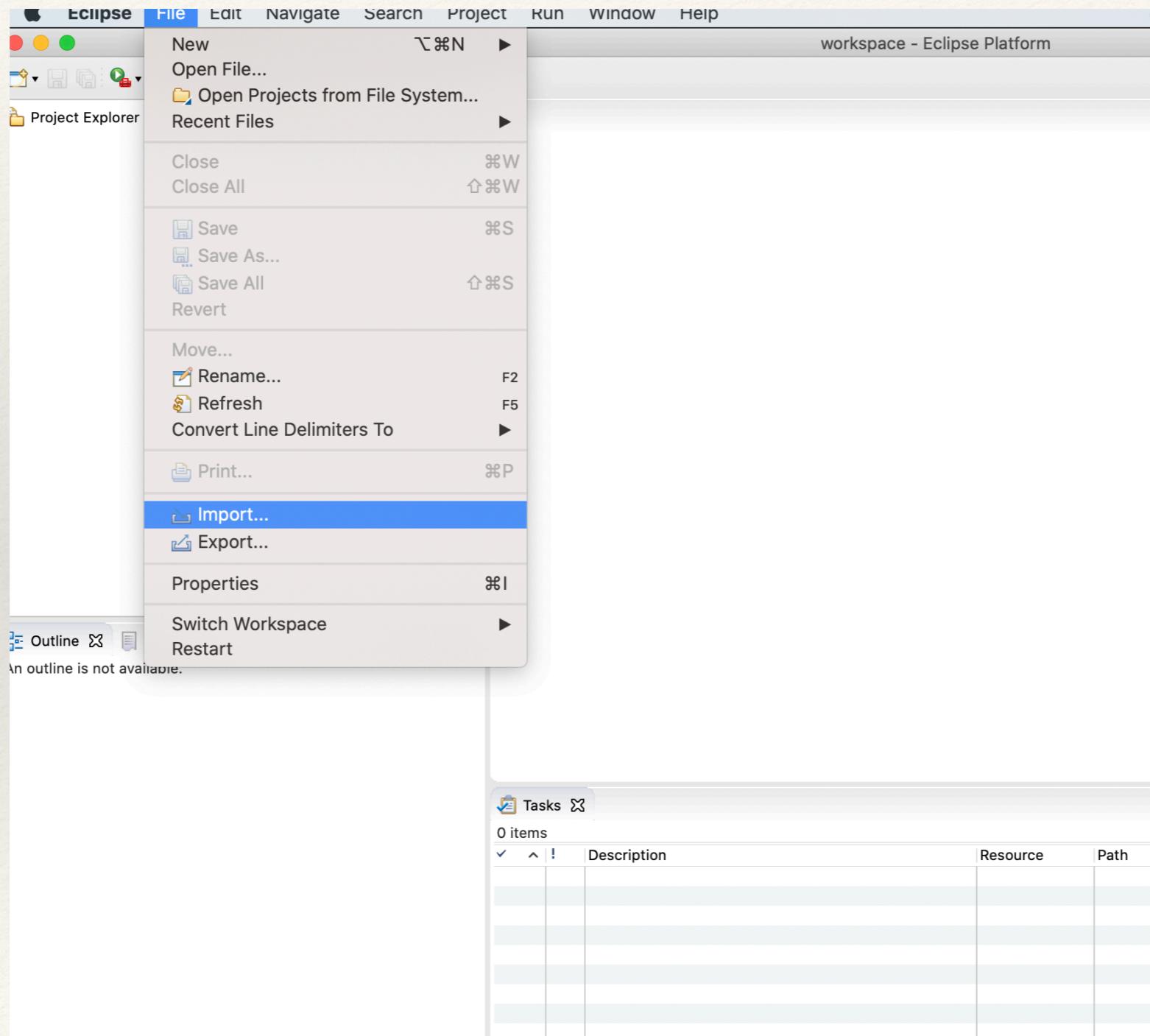
Import model designer



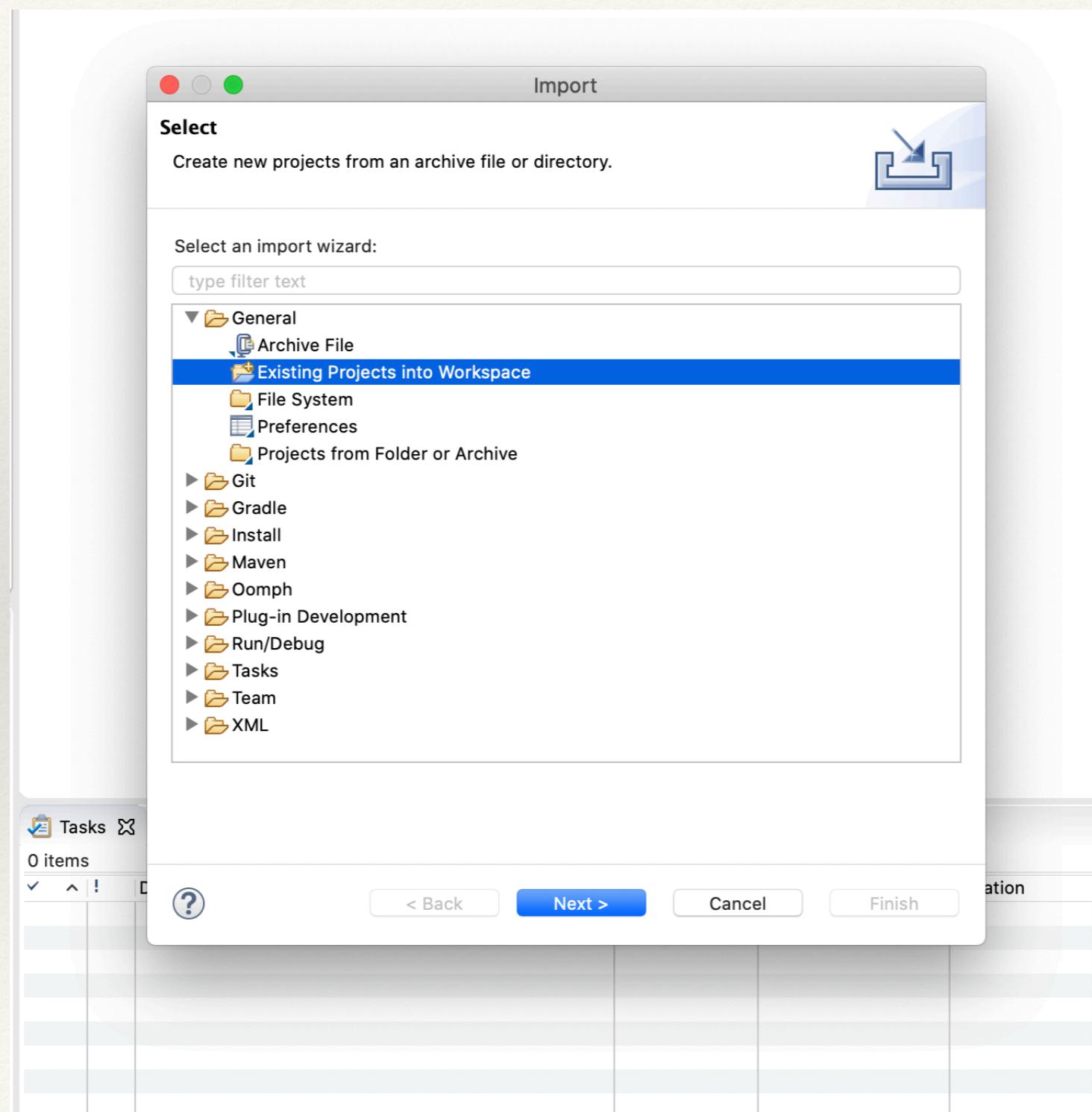
Import model designer



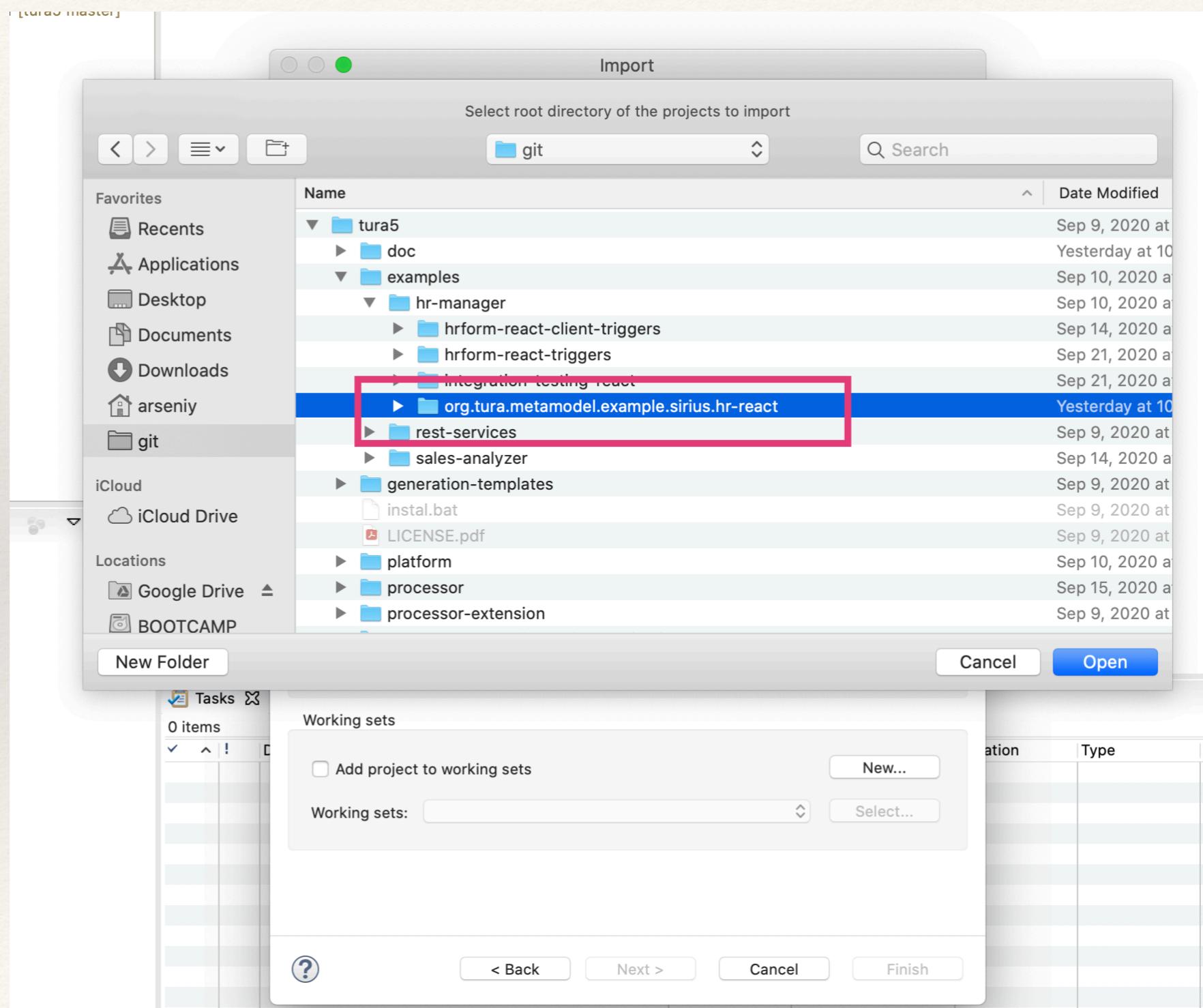
Import model



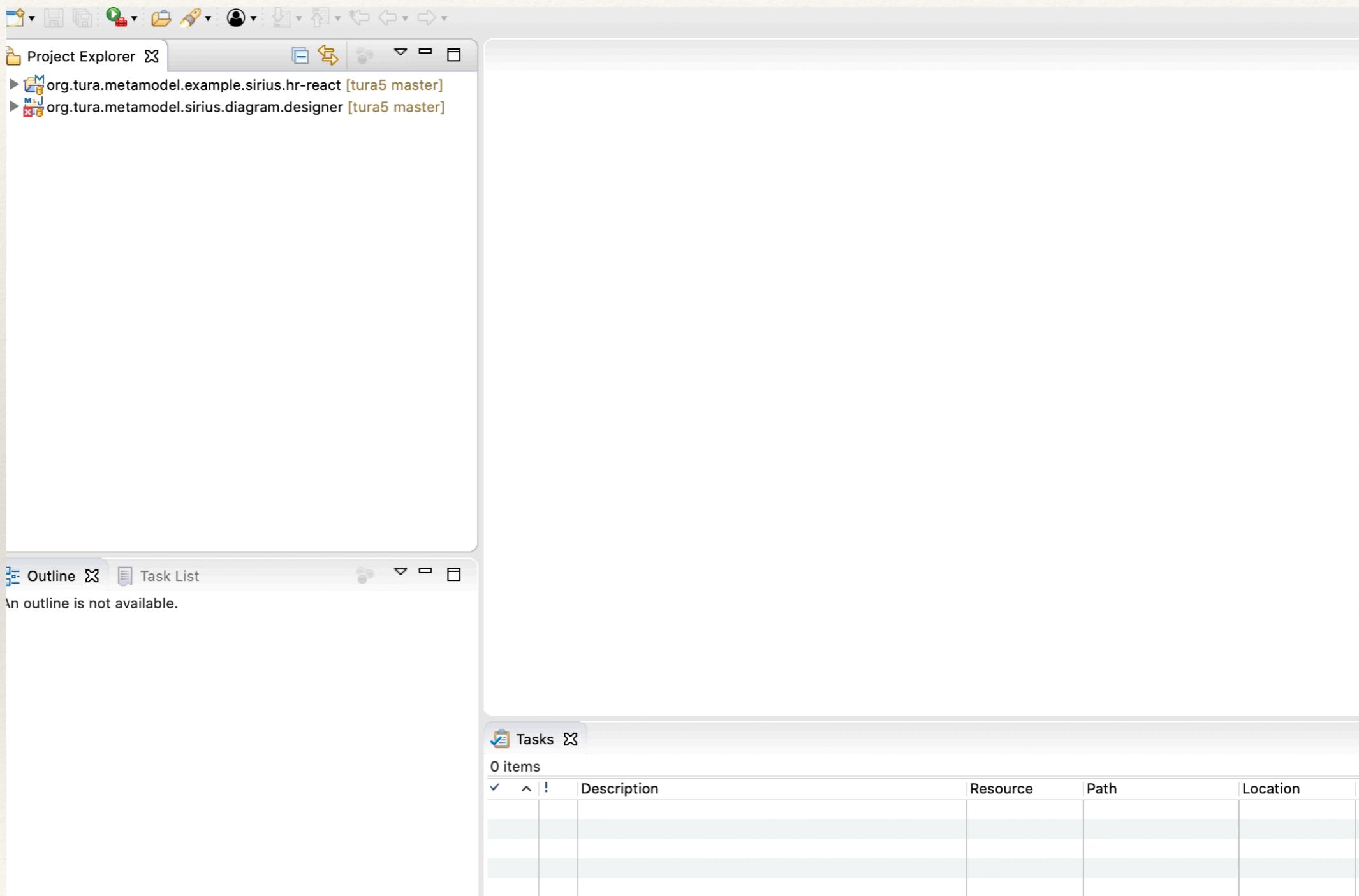
Import model



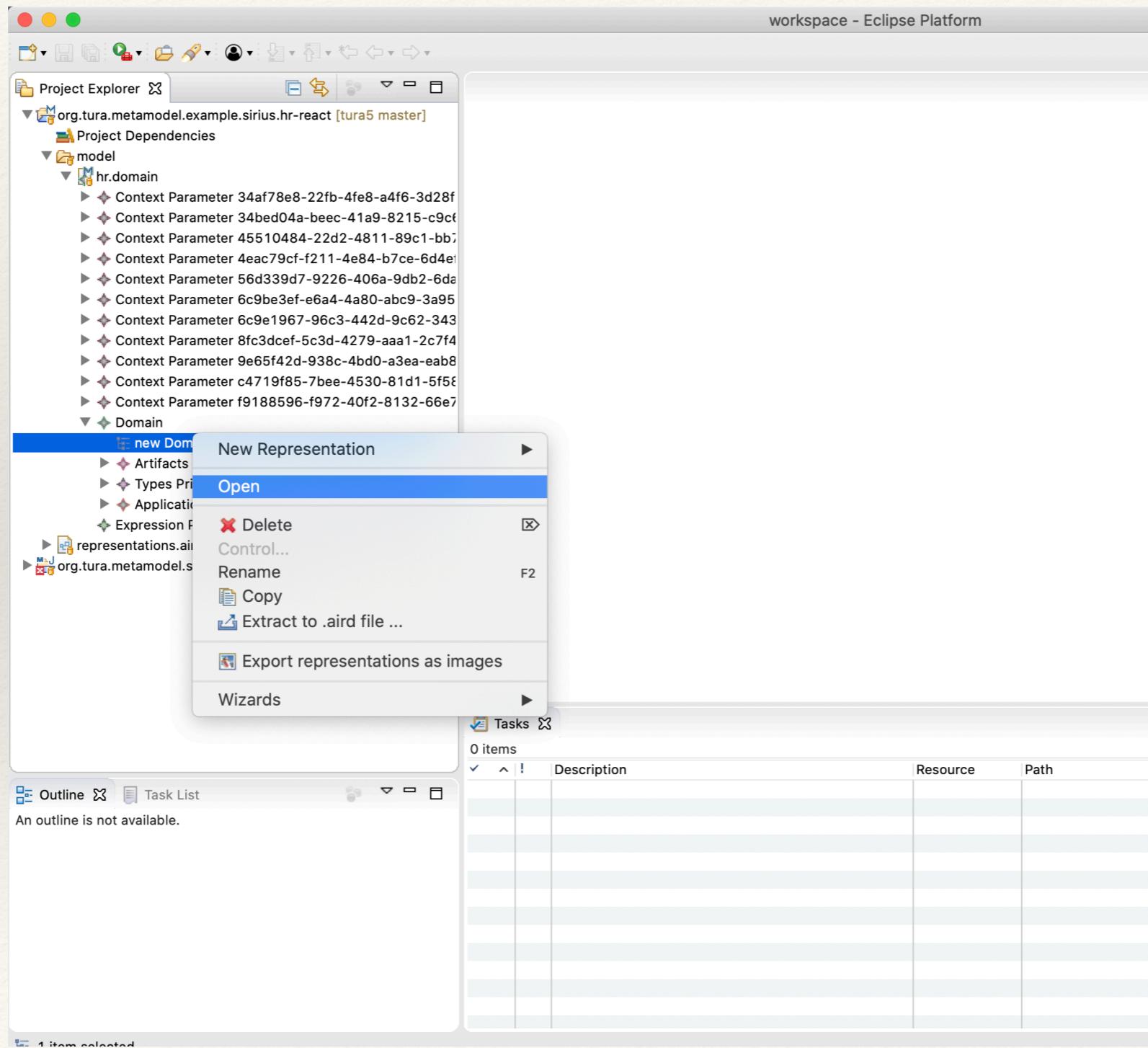
Import model



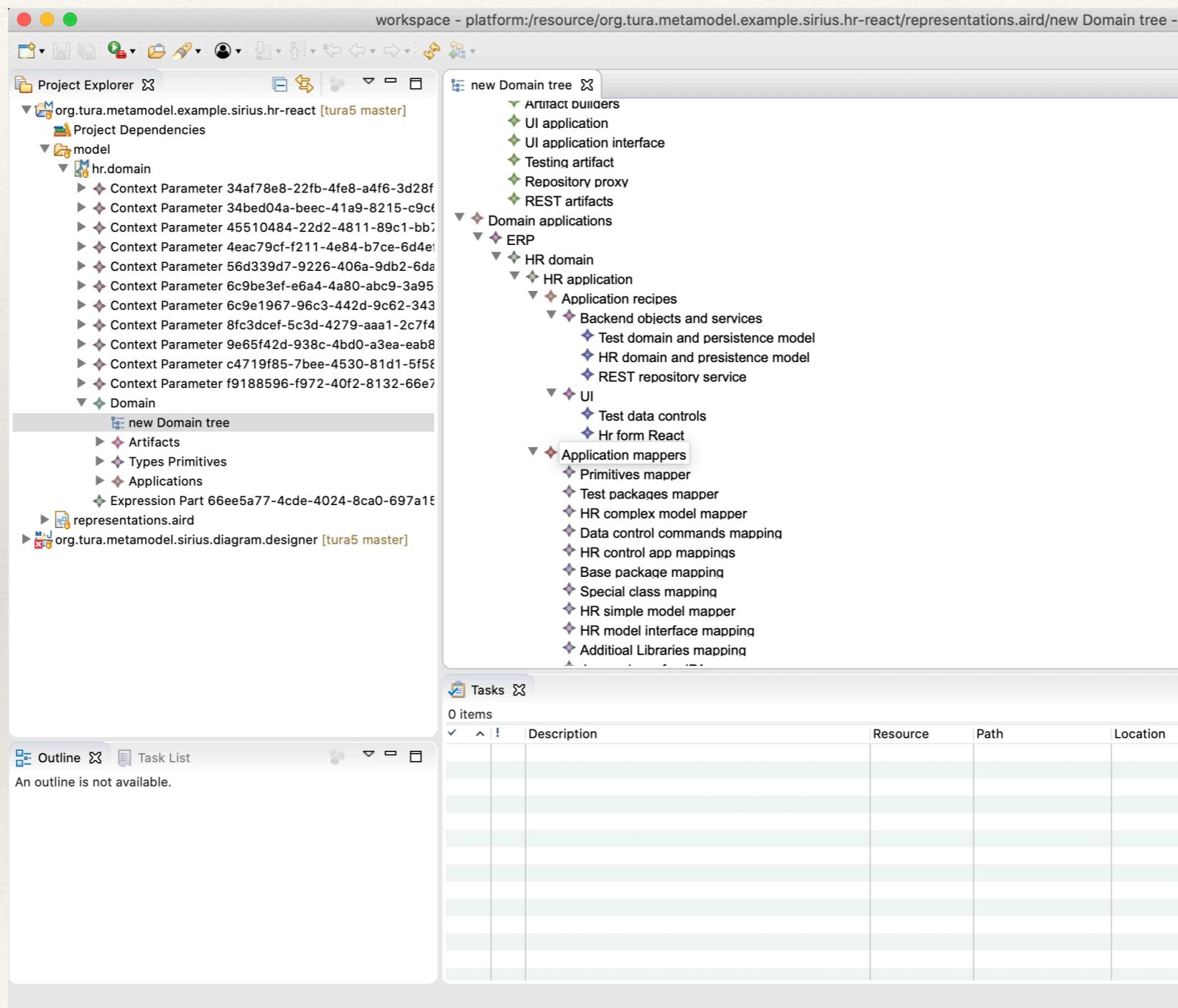
Open model



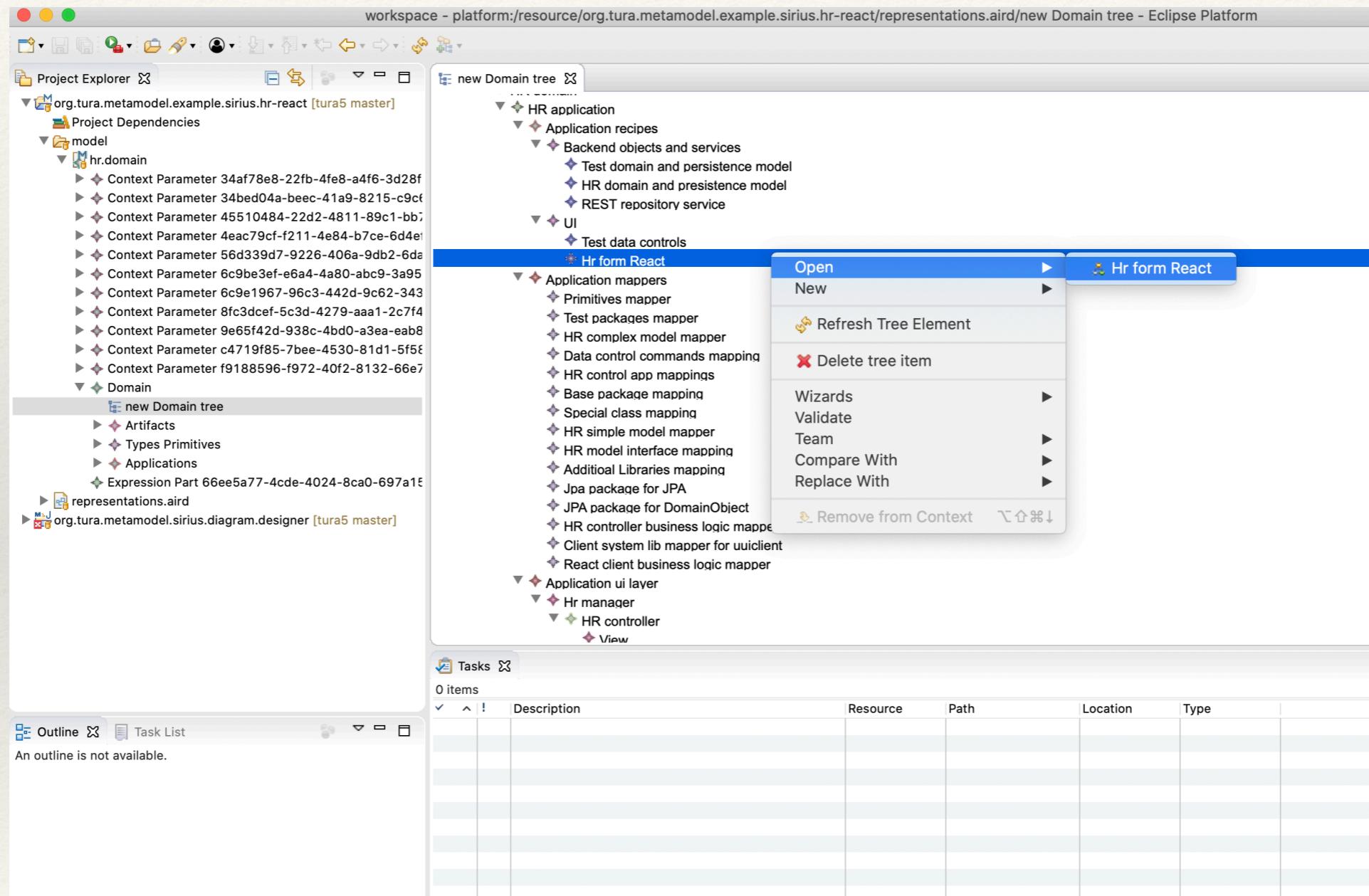
Open model



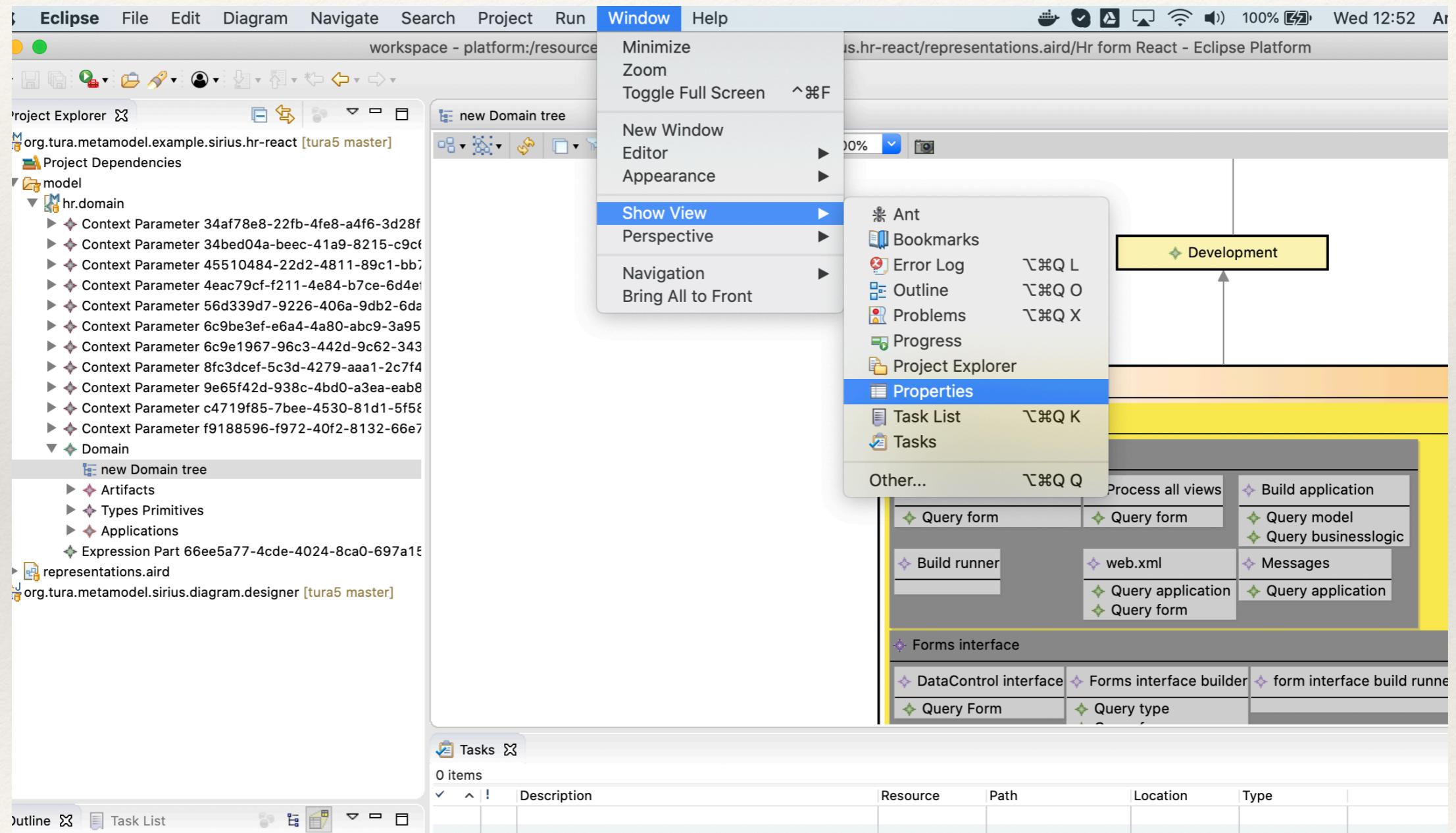
Open model



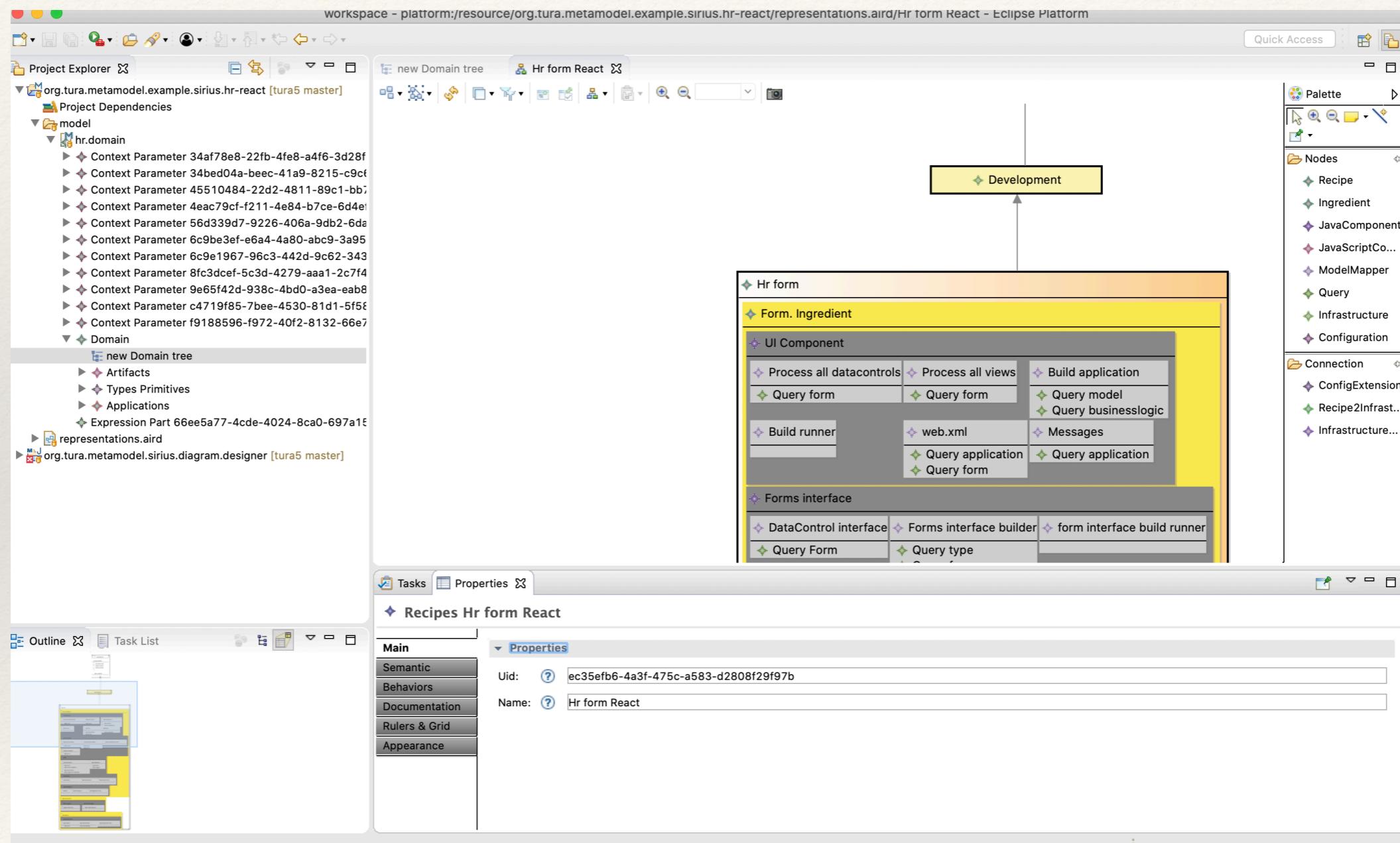
Open model



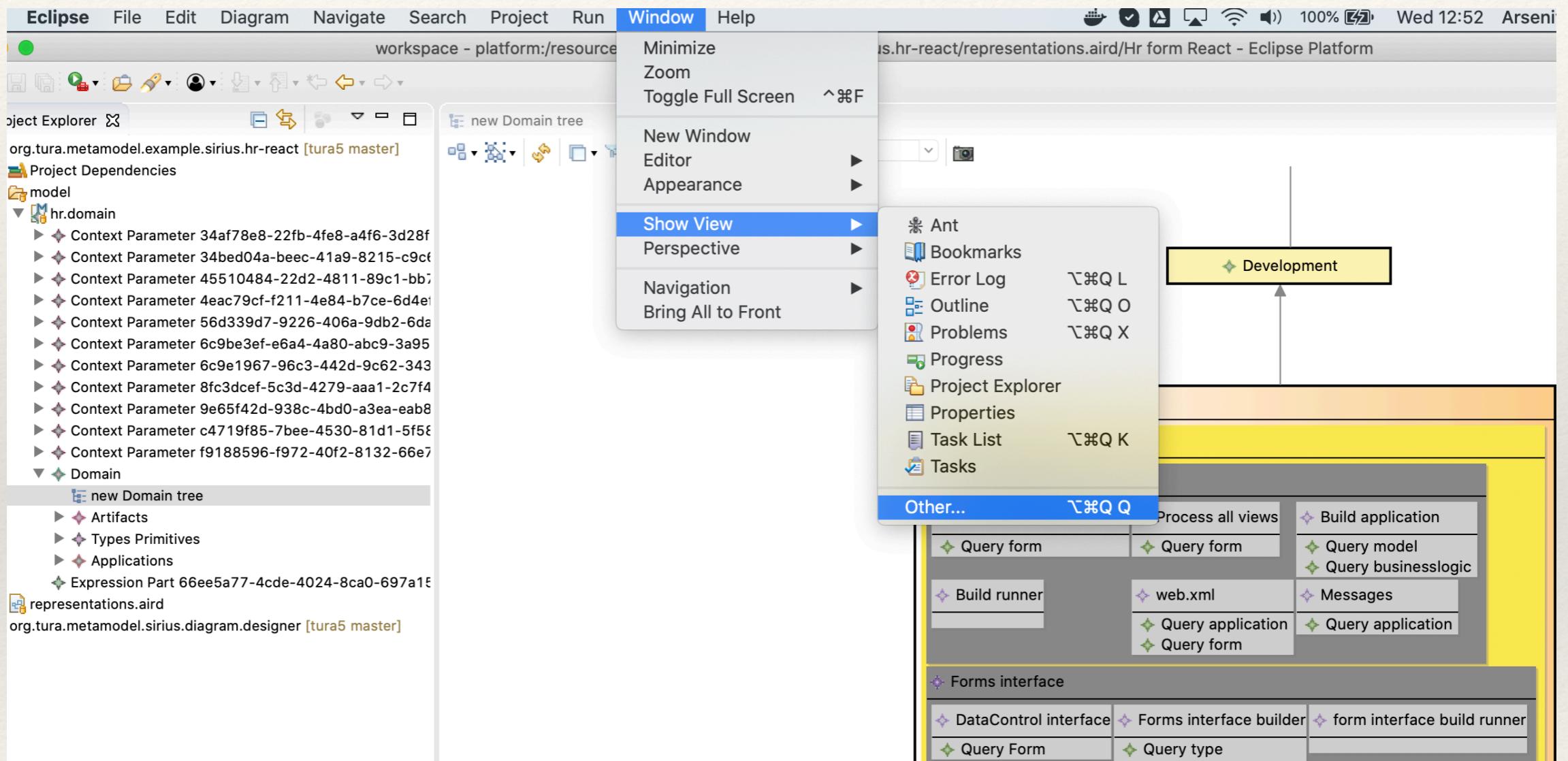
Open properties window



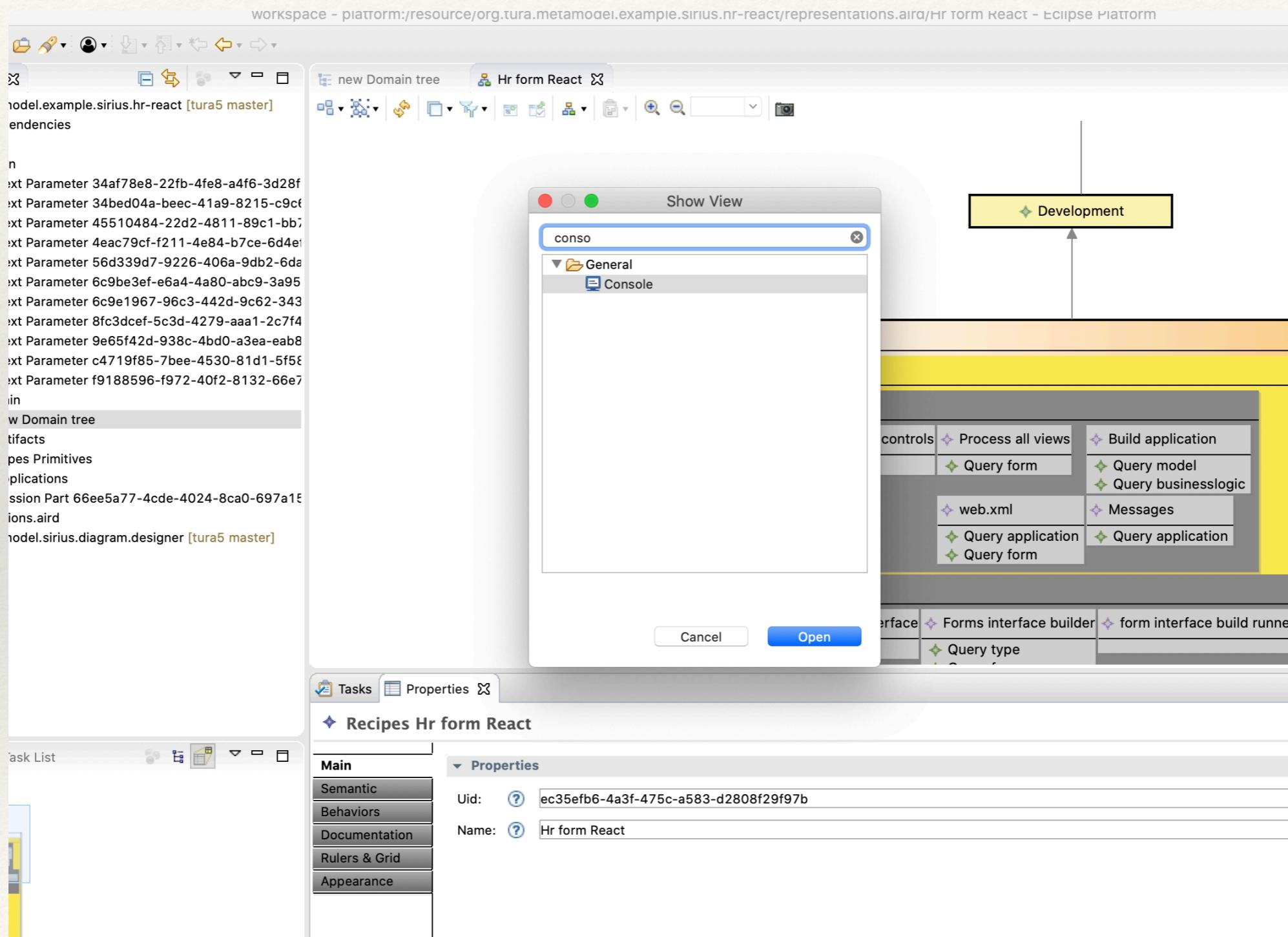
Open properties window



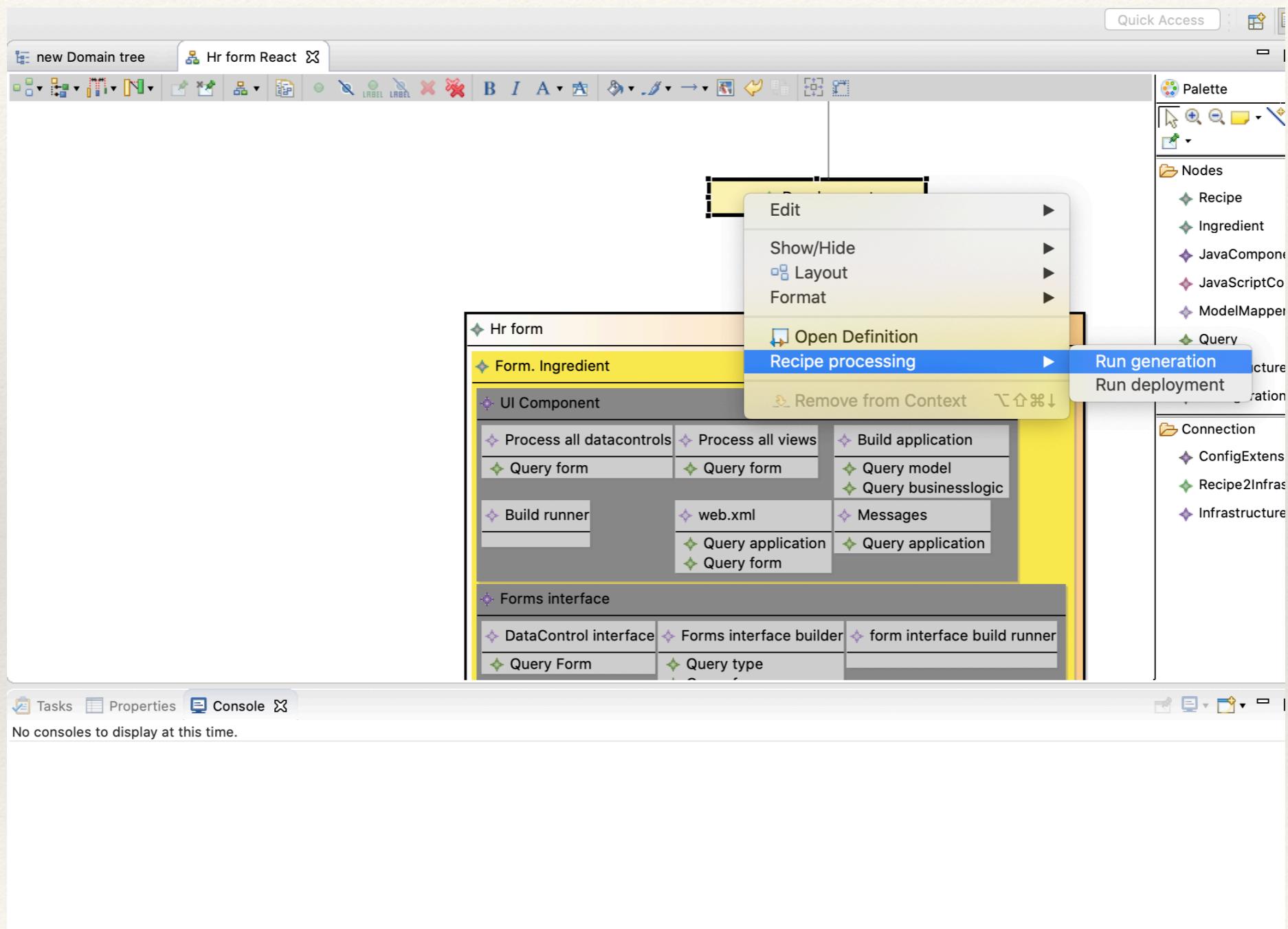
Open console



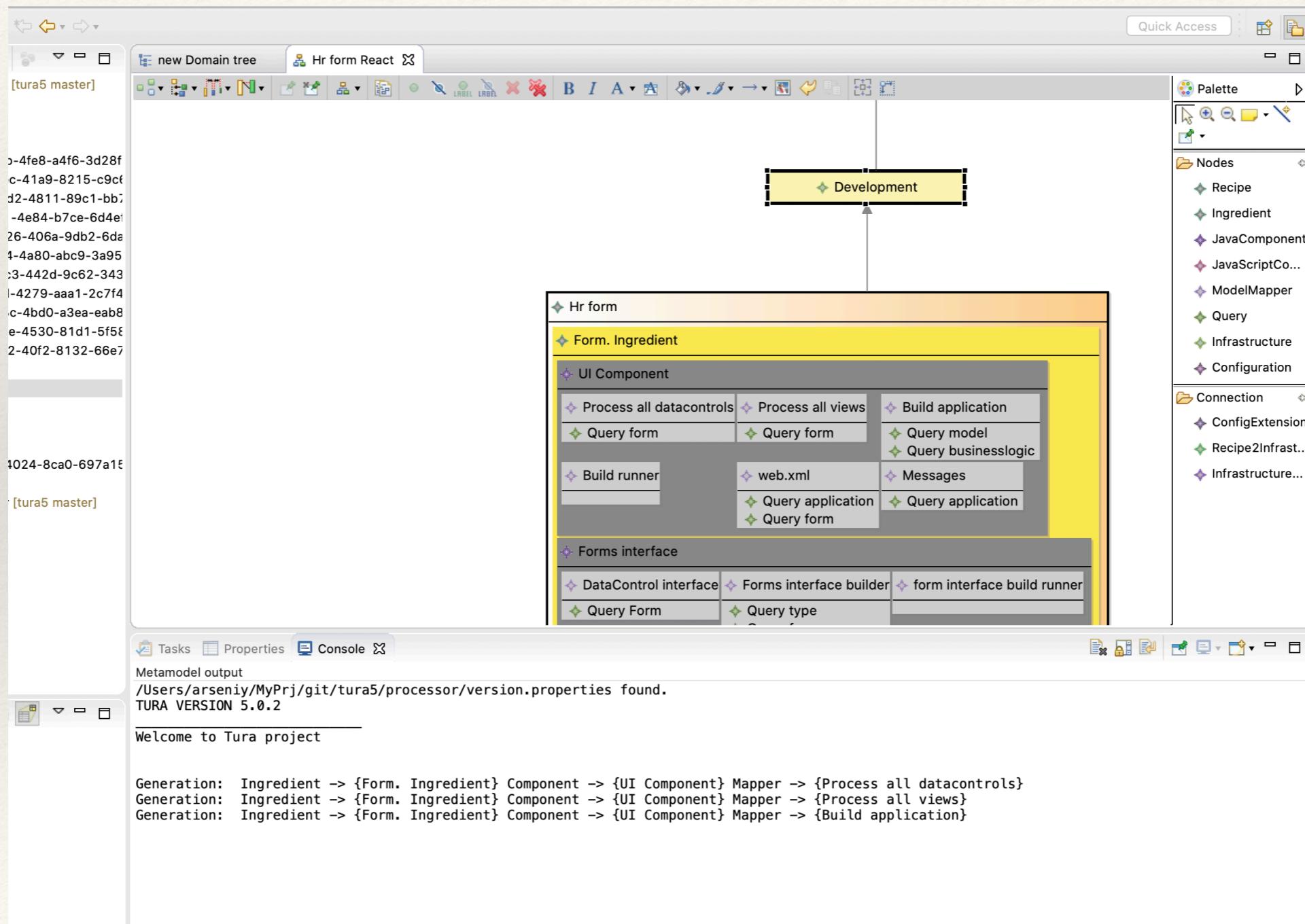
Open console



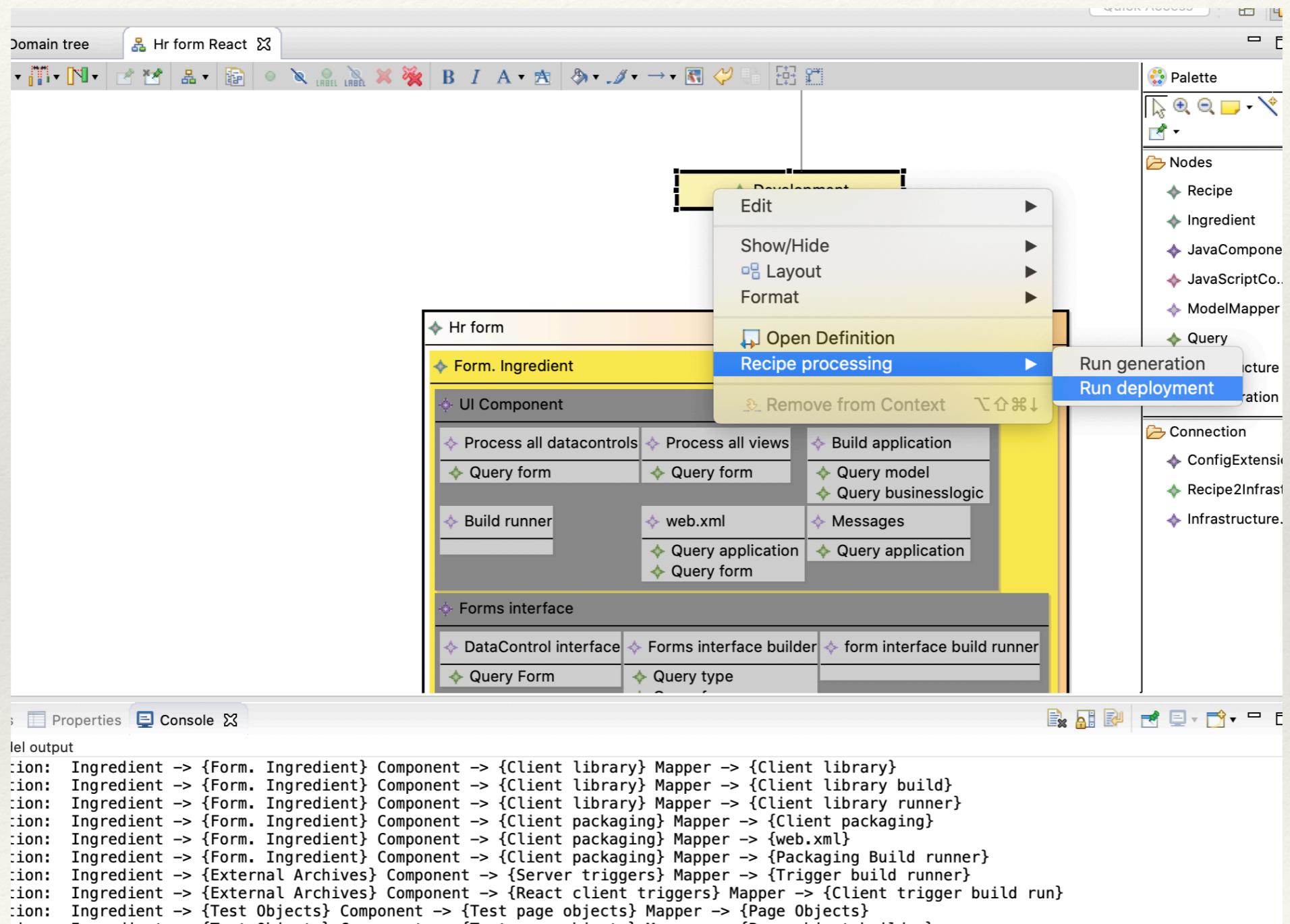
Generate application



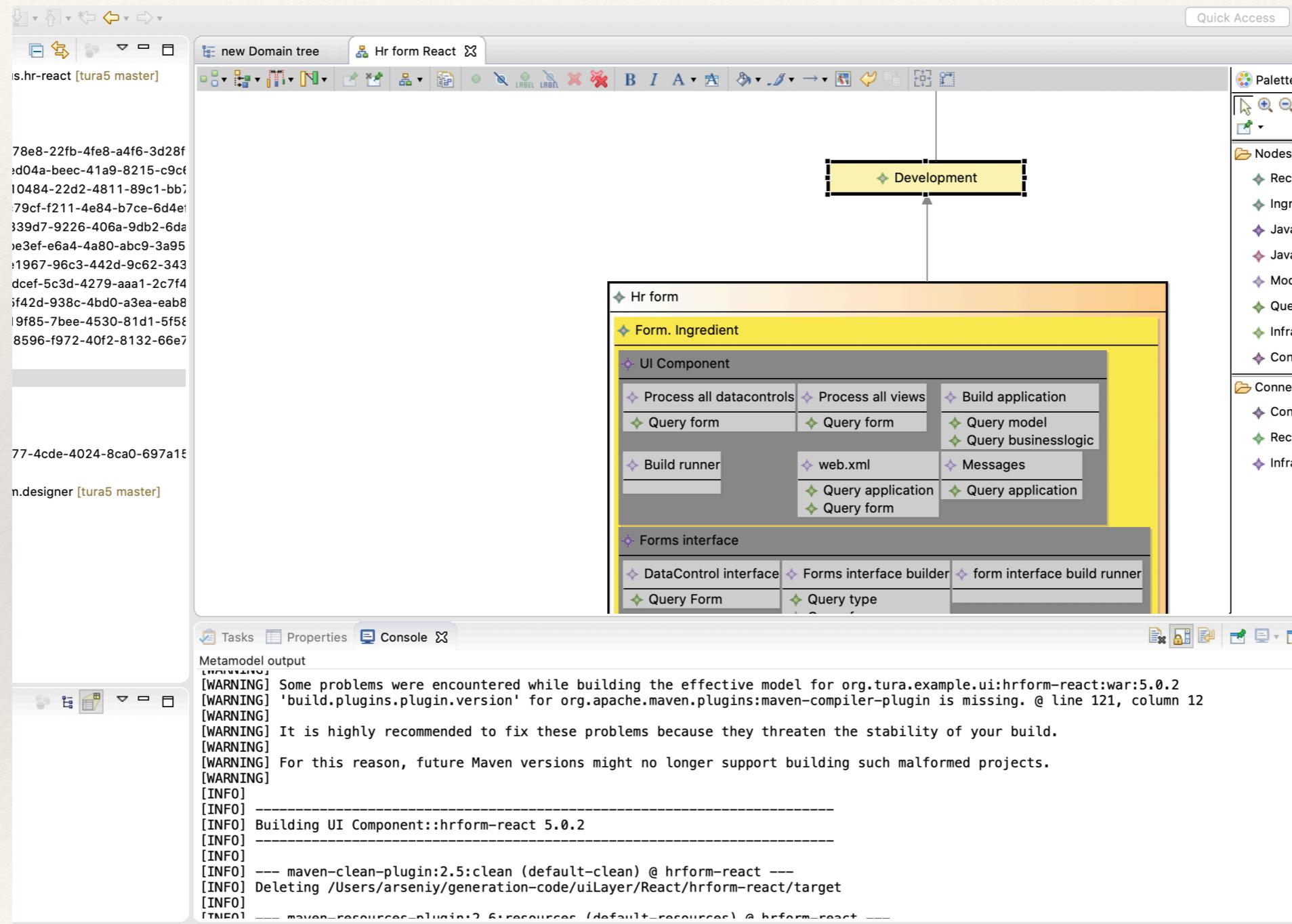
Generate application



Build application



Build application



HR application

Start tura shell

./processor/tura-gogo.sh

Show url's

shell>closure hrUrlList

<http://localhost:8080/hr-form-react-client/hrmanager/hrcontroller/hrController?param1=qwerty2>

http://localhost:8080/hr-form-react-client/hrmanager/tree2tree/tree2TreeRelations

http://localhost:8080/hr-form-react-client/hrmanager/tree2tree/tree2TreeMultiselect

http://localhost:8080/hr-form-react-client/hrmanager/testform1/testForm1

http://localhost:8080/hr-form-react-client/hrmanager/testform1/testForm2

http://localhost:8080/hr-form-react-client/hrmanager/testform2/testFormWindow

http://localhost:8080/hr-form-react-client/hrmanager/simpleform/simpleView

http://localhost:8080/hr-form-react-client/hrmanager/testform2/testFormWindow

http://localhost:8080/hr-form-react-client/hrmanager/testform2/testForm1Window

HR application

Start application

shell>closure startHRAplication

Show application log

shell>closure hrLogWatch

HR application

React App +

localhost:8080/hr-form-react-client/hrmanager/hrController?param1=qwerty2

Forms ▾ Actions ▾

HR Controller form

Company name	Description		
Company A			
Company B			

◀ ▶ 5 ▼ ▷

Country 1

Details:

Country details

Country

SA application

Start tura shell

```
./processor/tura-gogo.sh
```

Show url's

```
shell>closure saUrlList
```

```
http://kc:8080/auth/admin/master/console/
```

```
http://wf:8081/sa-admin-react-client/admin/administration/adminWindow
```

```
http://wf:8081/sa-case-manager-react-client/analysis/casemanager/workItemWindow
```

```
http://wf:8081/sa-etl-controller-react-client/dataloader/etlcontroller/etlControlWindow
```

admin/qwerty

sales-manager/sales01

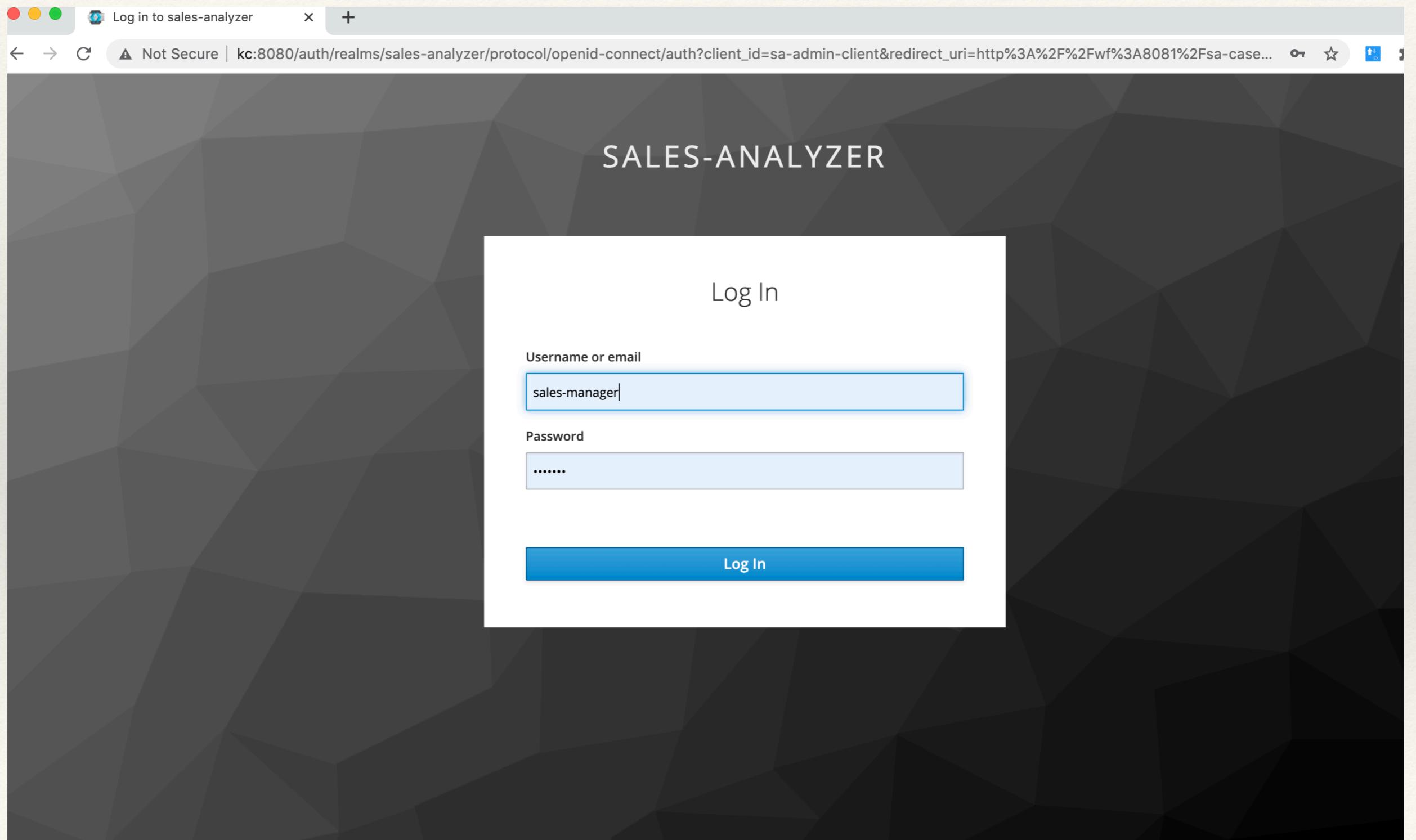
sales-manager/sales01

sales-manager/sales01

Start application

```
shell>closure startSAAplicationWithData
```

SA application



SA application

React App +

Not Secure | wf:8081/sa-case-manager-react-client/analysis/casemanager/workItemWindow

Import data

Case management

Admin

Logout

Search

Province
Select value

Assign to

City

Product

Case id

Query Clear

WorkItems

	Province	City	Product		Status	Assign to
<input type="checkbox"/>	Alberta	Airdrie	Product14	25	Case analysis	
<input type="checkbox"/>	Alberta	Airdrie	Product44	26	Case analysis	
<input type="checkbox"/>	Alberta	Athabasca	Product42	27	Case analysis	
<input type="checkbox"/>	Alberta	Banff	Product23	28	Case analysis	
<input type="checkbox"/>	Alberta	Barrhead	Product22	29	Case analysis	
<input type="checkbox"/>	Alberta	Beaumont	Product10	30	Case analysis	
<input type="checkbox"/>	Alberta	Beaumont	Product30	31	Case analysis	
<input type="checkbox"/>	Alberta	Beaverlodge	Product25	32	Case analysis	
<input type="checkbox"/>	Alberta	Black Diamond	Product1	33	Case analysis	
<input type="checkbox"/>	Alberta	Blackfalds	Product0	34	Case analysis	

Configuration of artifact repository

Add settings.xml file to <USER_HOME>/ .m2 directory

```
<settings xmlns="http://maven.apache.org/SETTINGS/1.1.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/SETTINGS/1.1.0 http://maven.apache.org/xsd/settings-1.1.0.xsd">

  <mirrors>
    <mirror>
      <id>nexus.local</id>
      <url>http://localhost:2222/repository/maven-public/</url>
      <mirrorOf>*</mirrorOf>
    </mirror>
    <mirror>
      <id>eclipse-mirror</id>
      <mirrorOf>eclipse</mirrorOf>
      <url>http://localhost:2222/repository/eclipse/</url>
      <layout>p2</layout>
      <mirrorOfLayouts>p2</mirrorOfLayouts>
    </mirror>

    <mirror>
      <id>emfatic-mirror</id>
      <mirrorOf>emfatic</mirrorOf>
      <url>http://localhost:2222/repository/emfatic/</url>
      <layout>p2</layout>
      <mirrorOfLayouts>p2</mirrorOfLayouts>
    </mirror>

    <mirror>
      <id>epsilon-mirror</id>
      <mirrorOf>epsilon</mirrorOf>
      <url>http://localhost:2222/repository/epsilon/</url>
      <layout>p2</layout>
      <mirrorOfLayouts>p2</mirrorOfLayouts>
    </mirror>

    <mirror>
      <id>sirius-mirror</id>
      <mirrorOf>sirius</mirrorOf>
      <url>http://localhost:2222/repository/sirius/</url>
      <layout>p2</layout>
      <mirrorOfLayouts>p2</mirrorOfLayouts>
    </mirror>
  </mirrors>
</settings>
```

Configuration of artifact repository

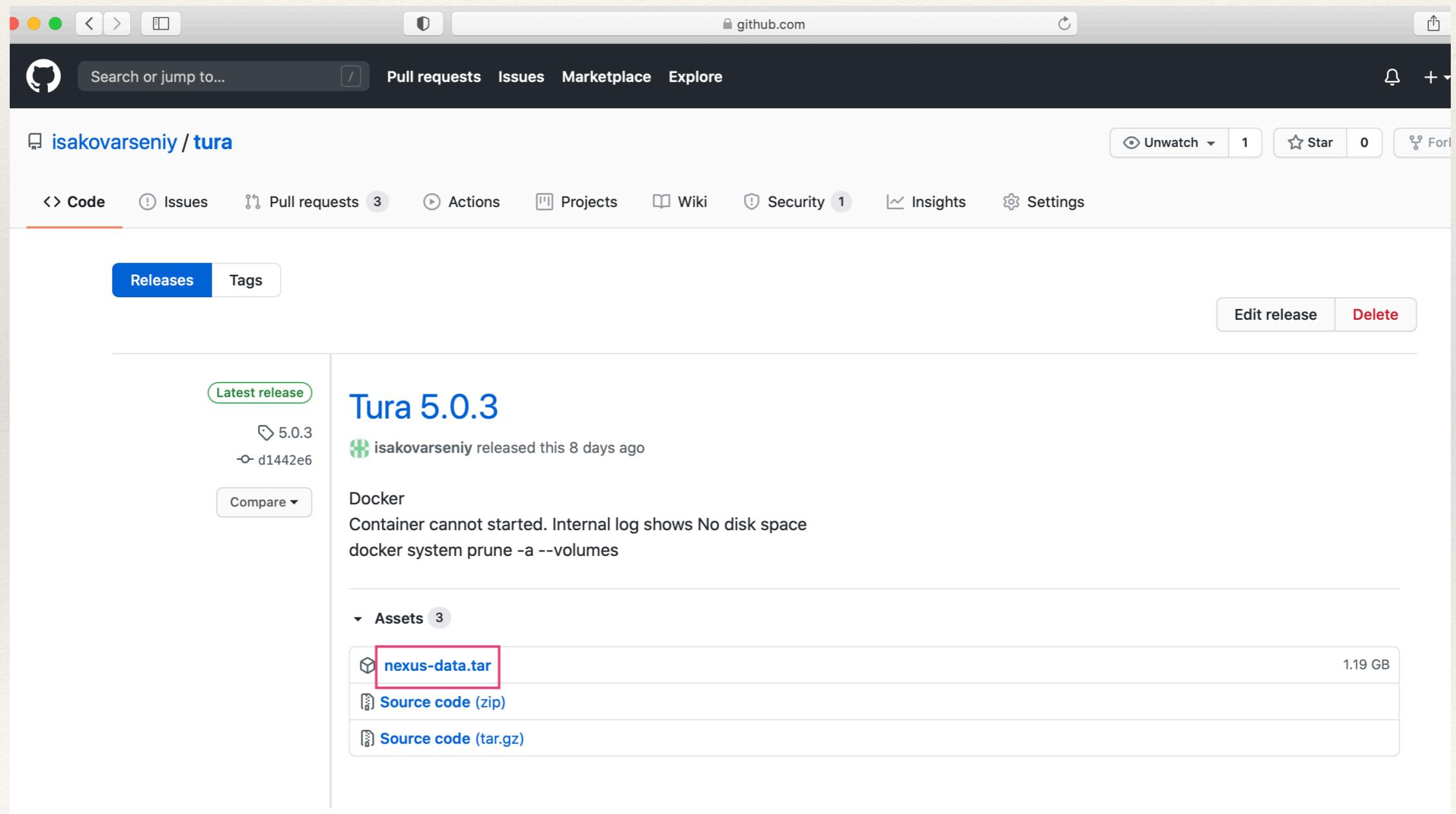
Add local registry to npm

```
>npm config set registry http://localhost:2222/repository/npm/
```

<

Configuration of artifact repository

Download tar file



Configuration of artifact repository

Store tar file in <USER_HOME>/nexus_backup

Start tura shell

```
./processor/tura-gogo.sh
```

Import backup to nexus repository

```
shell>closure nexusRestore
```

Stop nexus repository

```
shell>closure nexusStop
```

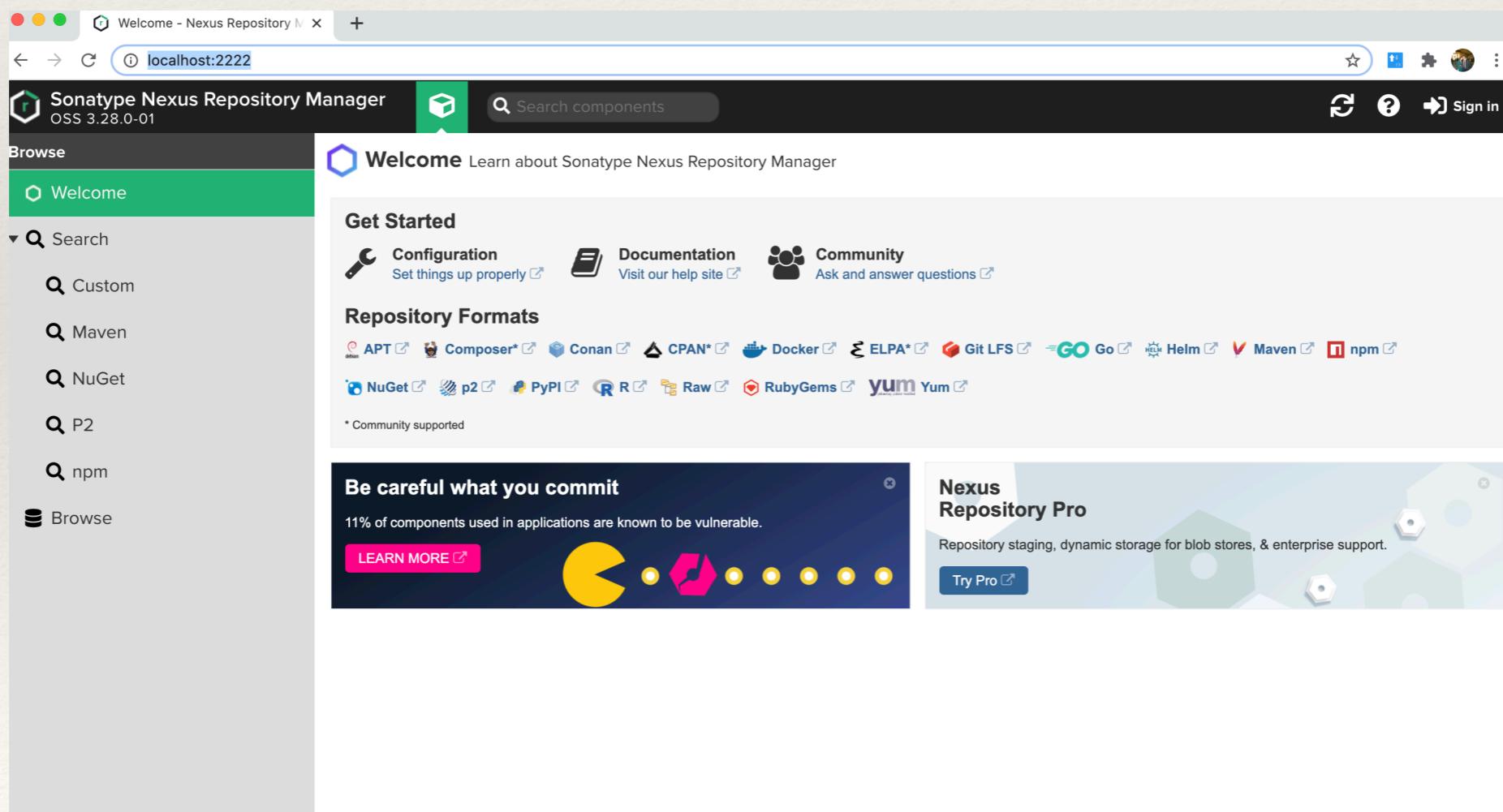
Start nexus repository

```
shell>closure nexusStart
```

Configuration of artifact repository

Repository available on <http://localhost:2222/>

Credential admin/admin1



Tura solution

Request to Arseniy.Isakov@turasolutions.com