

*Domain specific language in action*

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# Tura - application generation solution

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- Generate
- Build
- Deploy



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# Pre Install

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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 X

Resources X

Docker Engine X

Command Line X

Kubernetes X

**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

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# Installation

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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

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# Installation (for Linux users)

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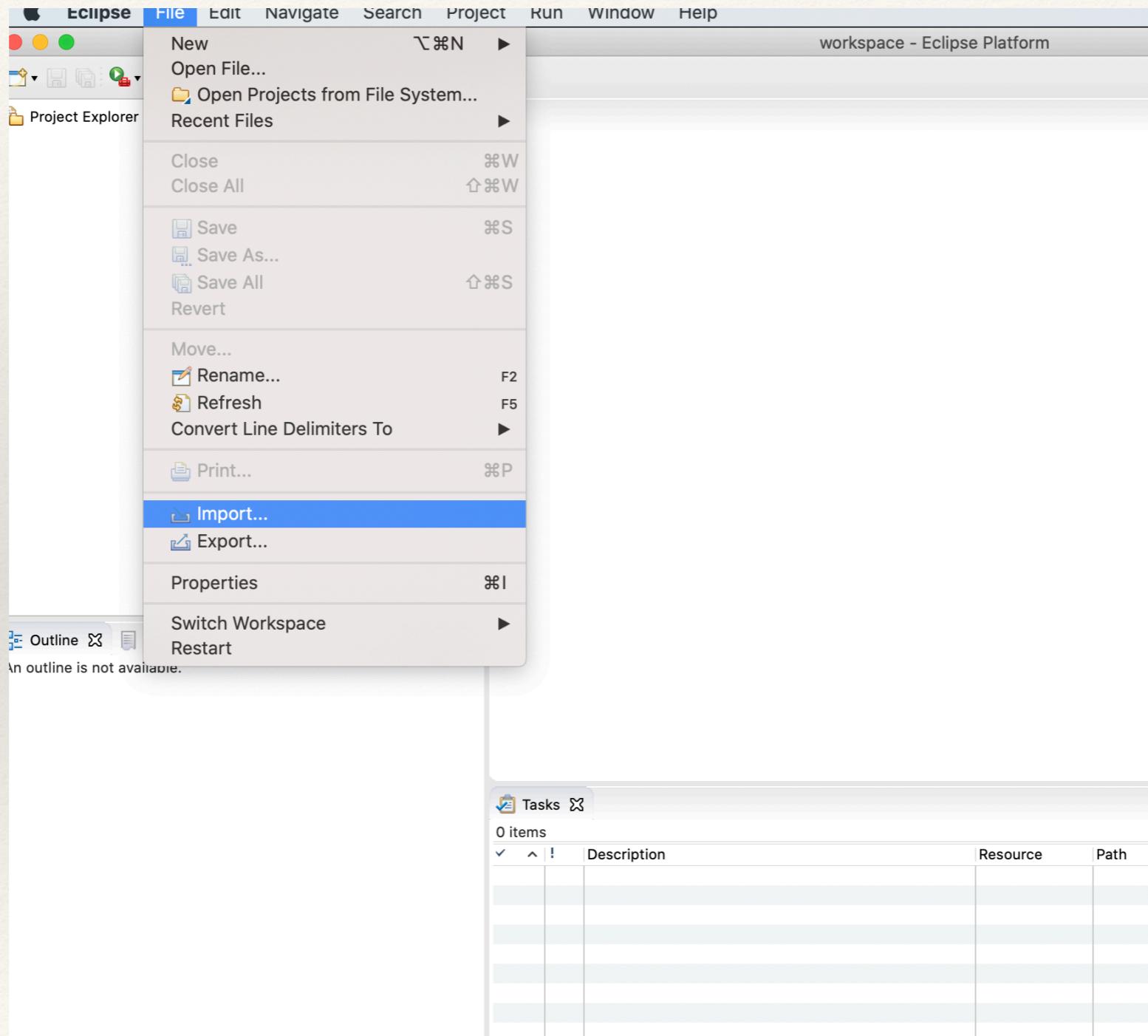
Export variable  
>export SWT\_GTK3=0

# Generated IDE

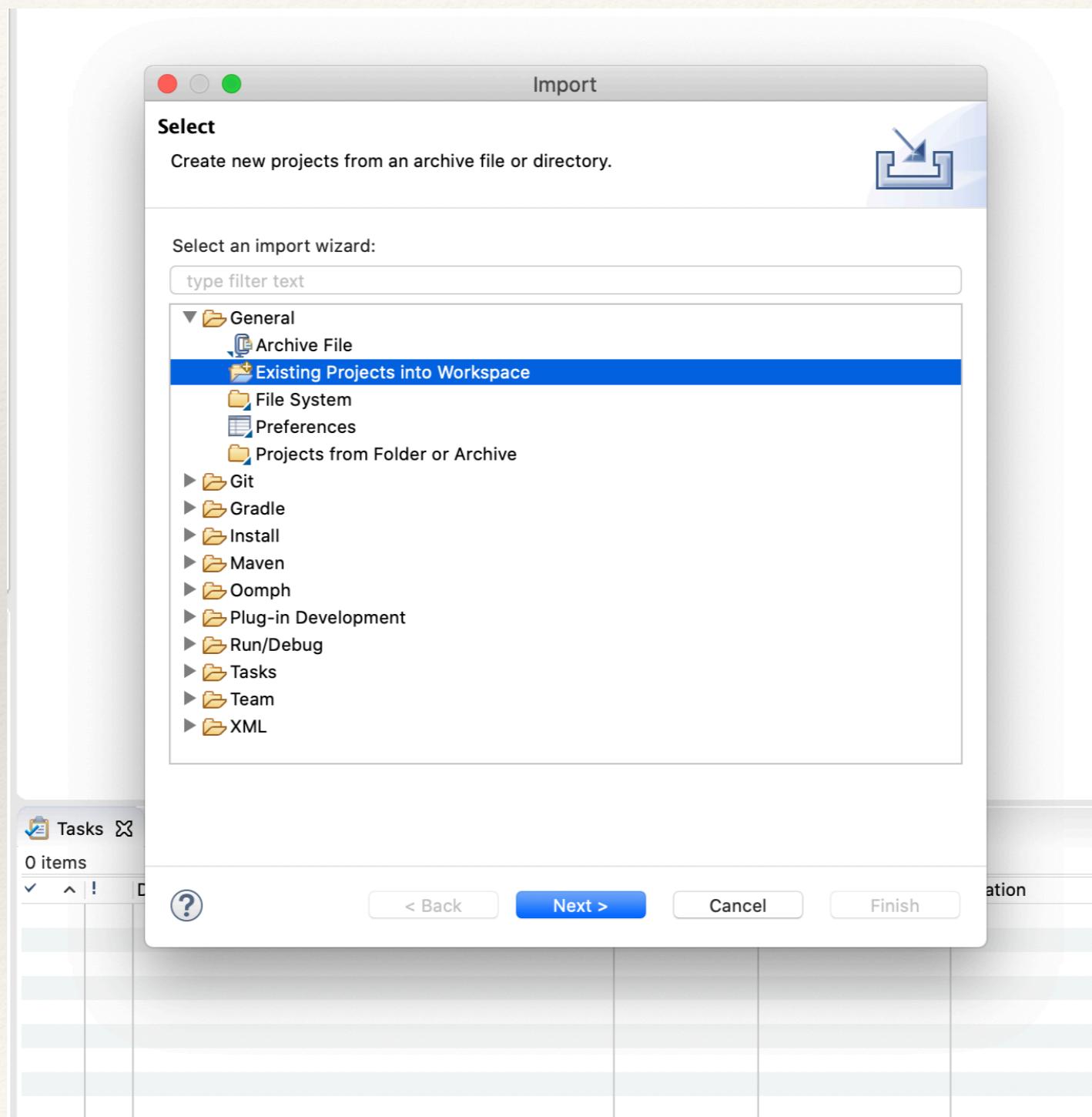
<TURA\_HOME>/sirius/site/org.tura.metamodel.site-definition/target/products

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

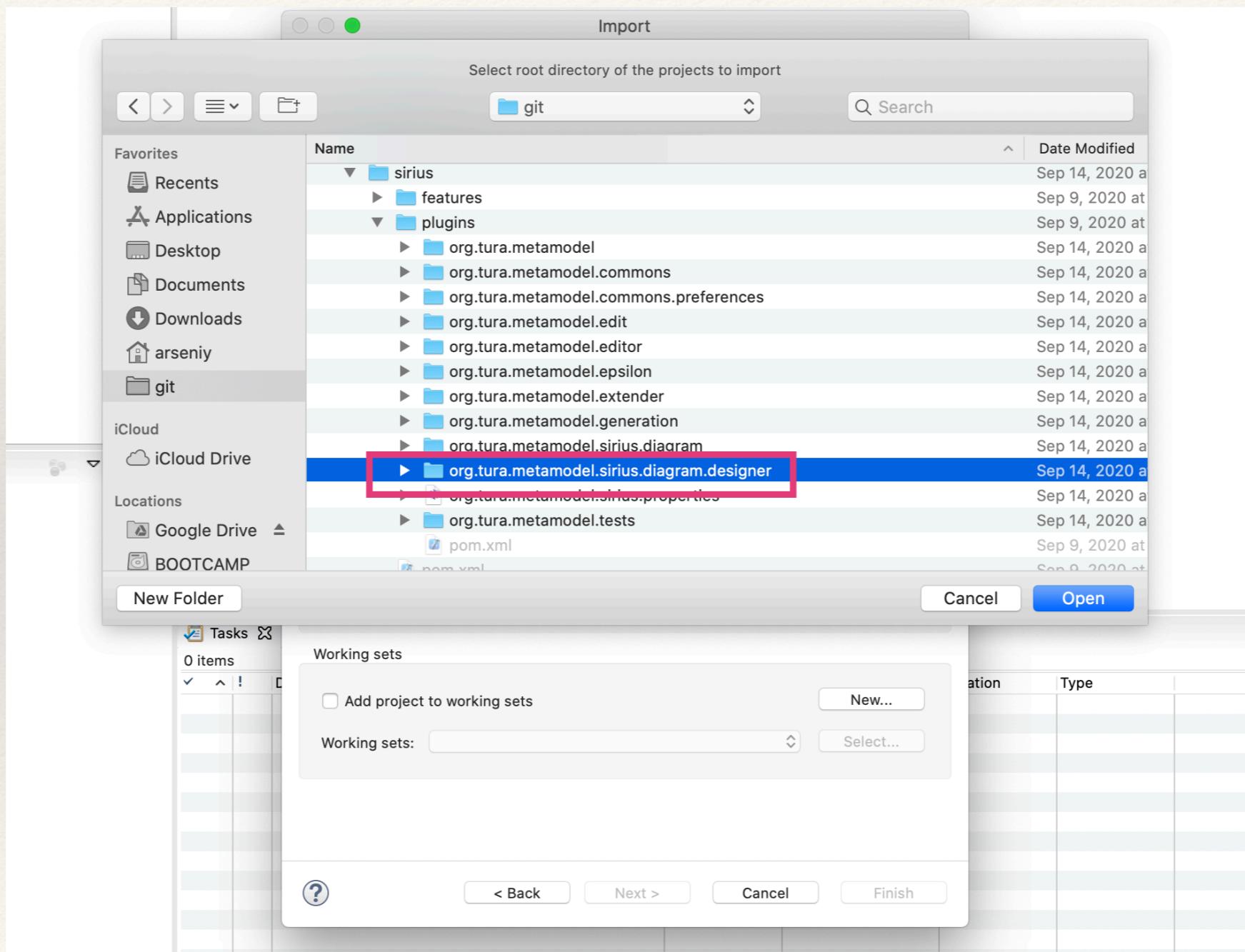
# Import model designer



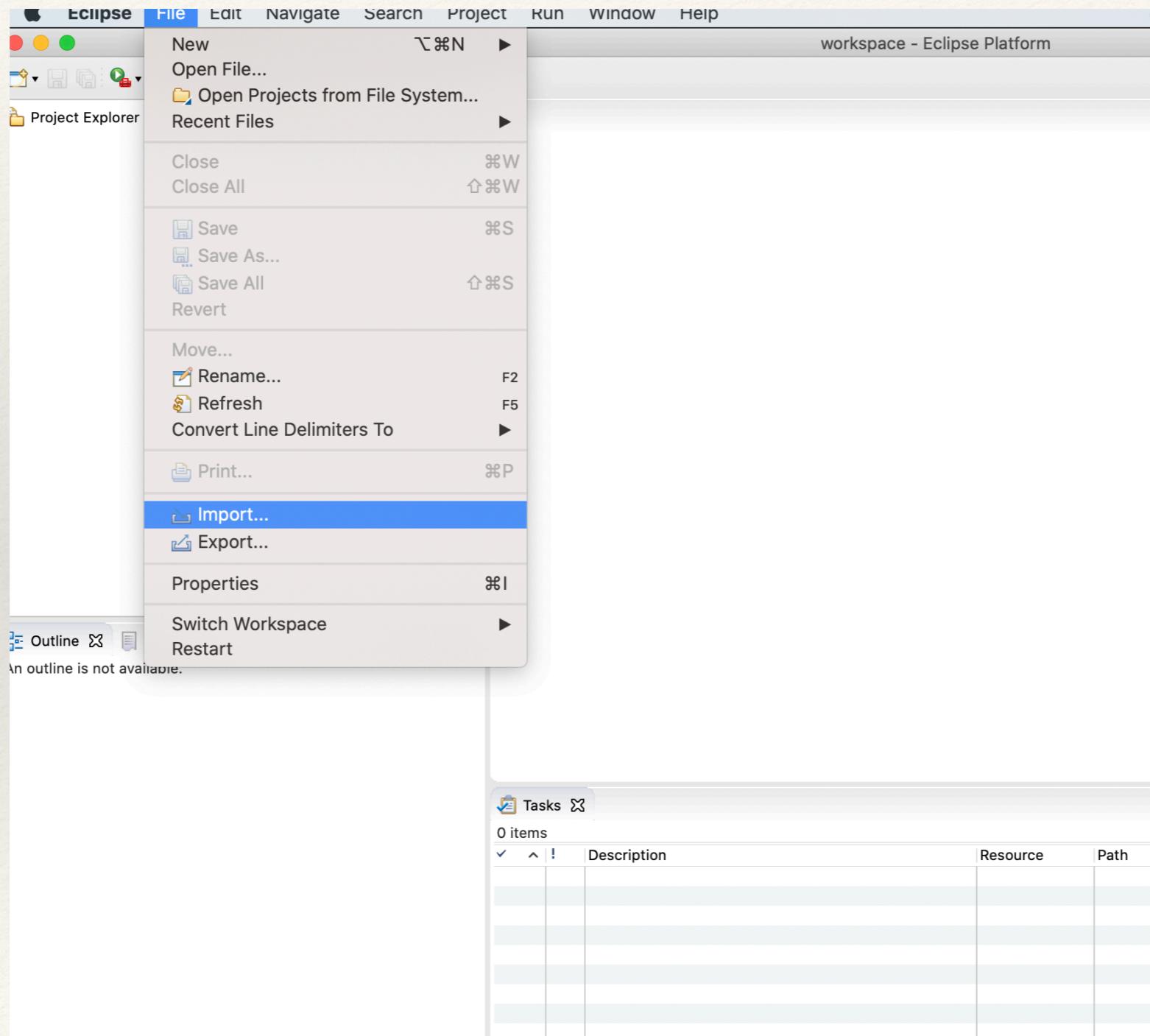
# Import model designer



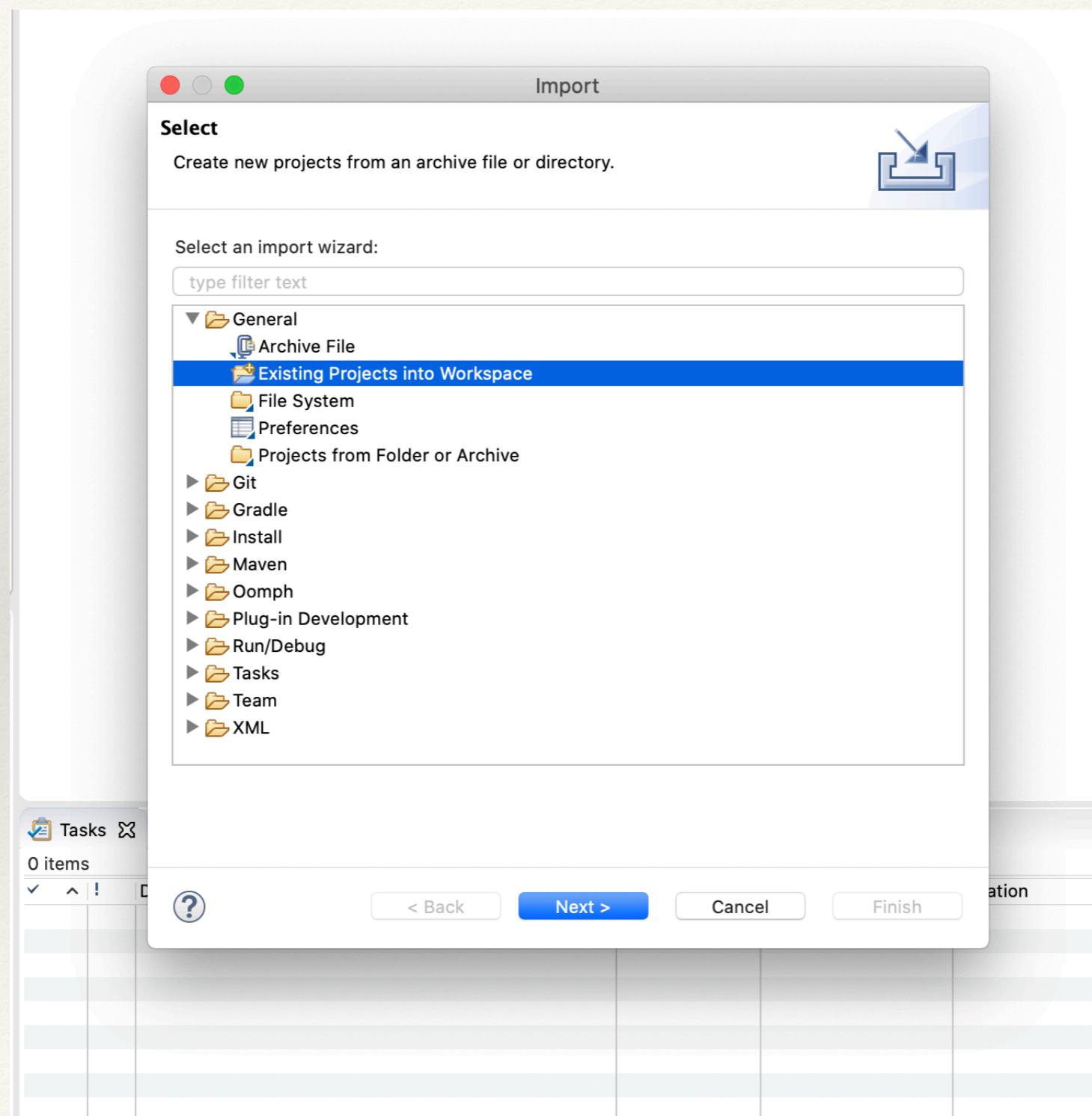
# Import model designer



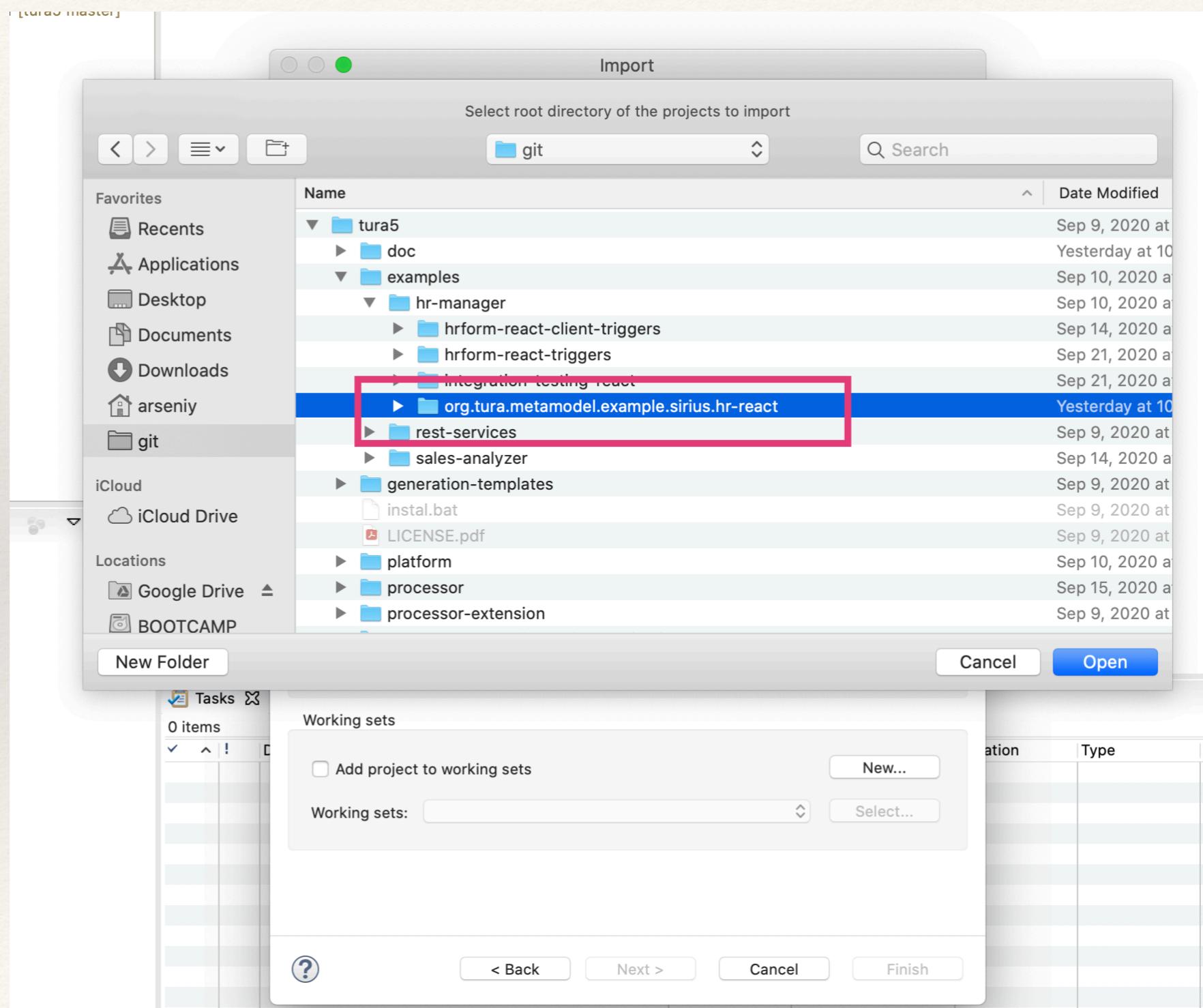
# Import model



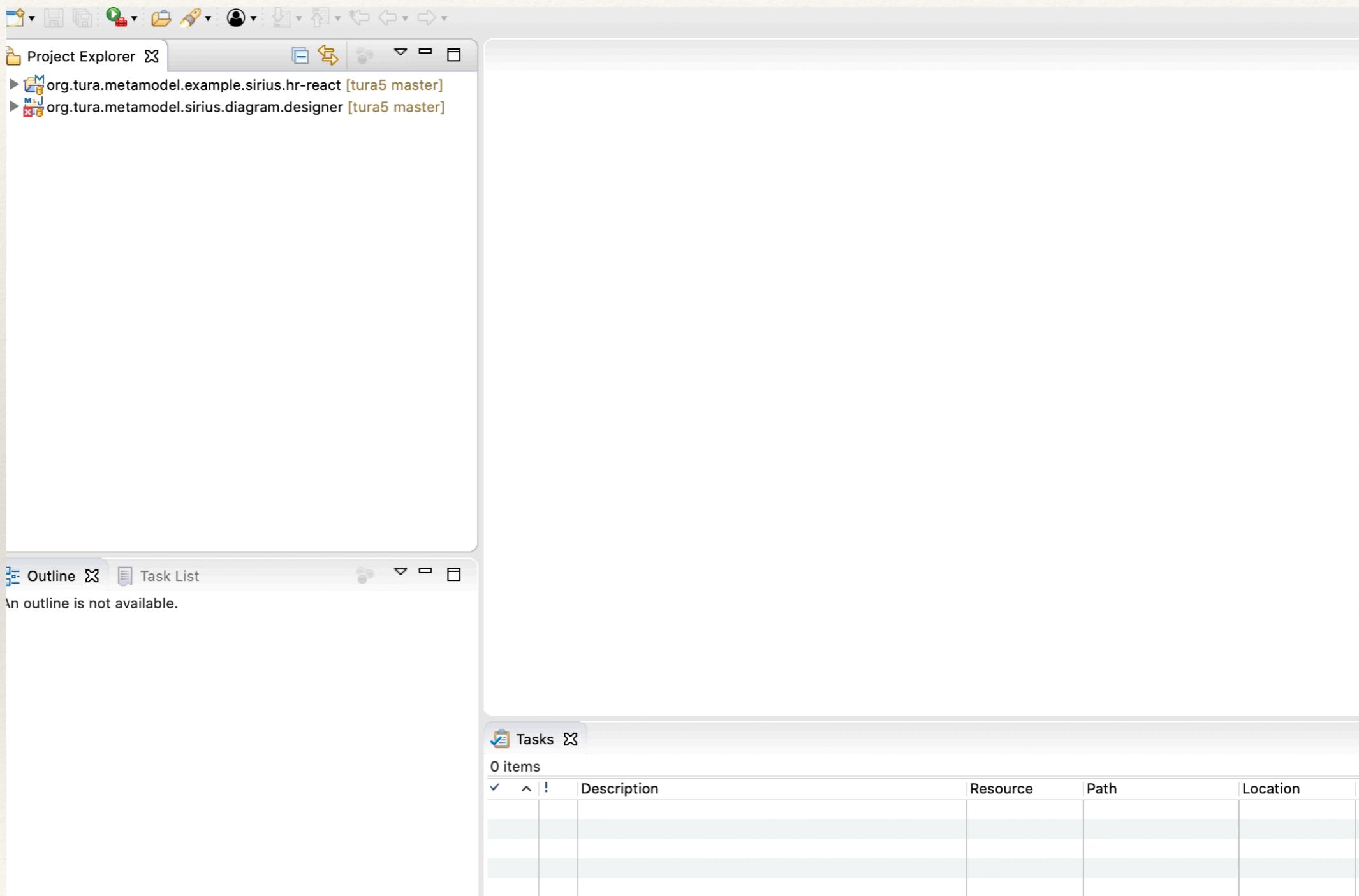
# Import model



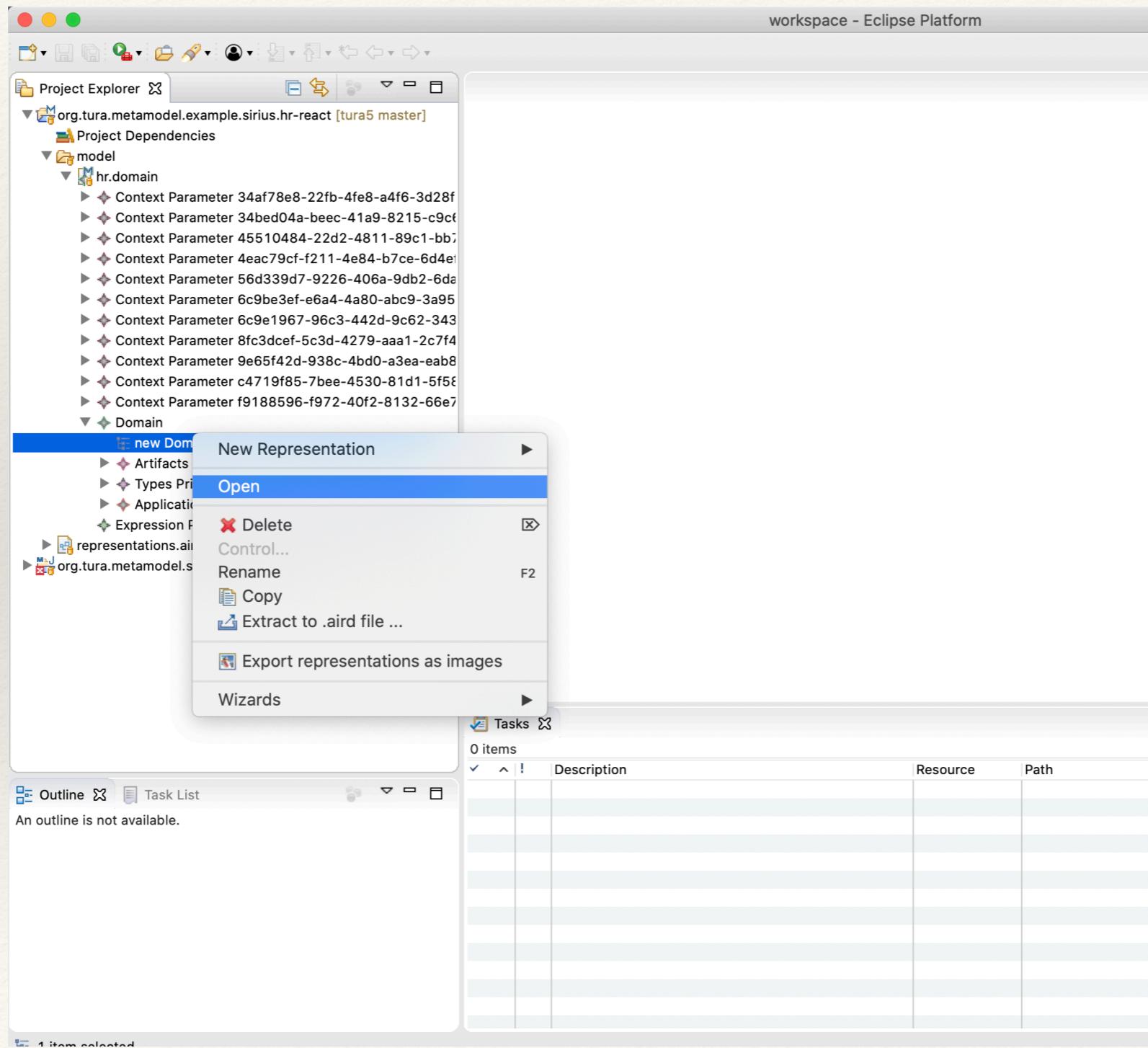
# Import model



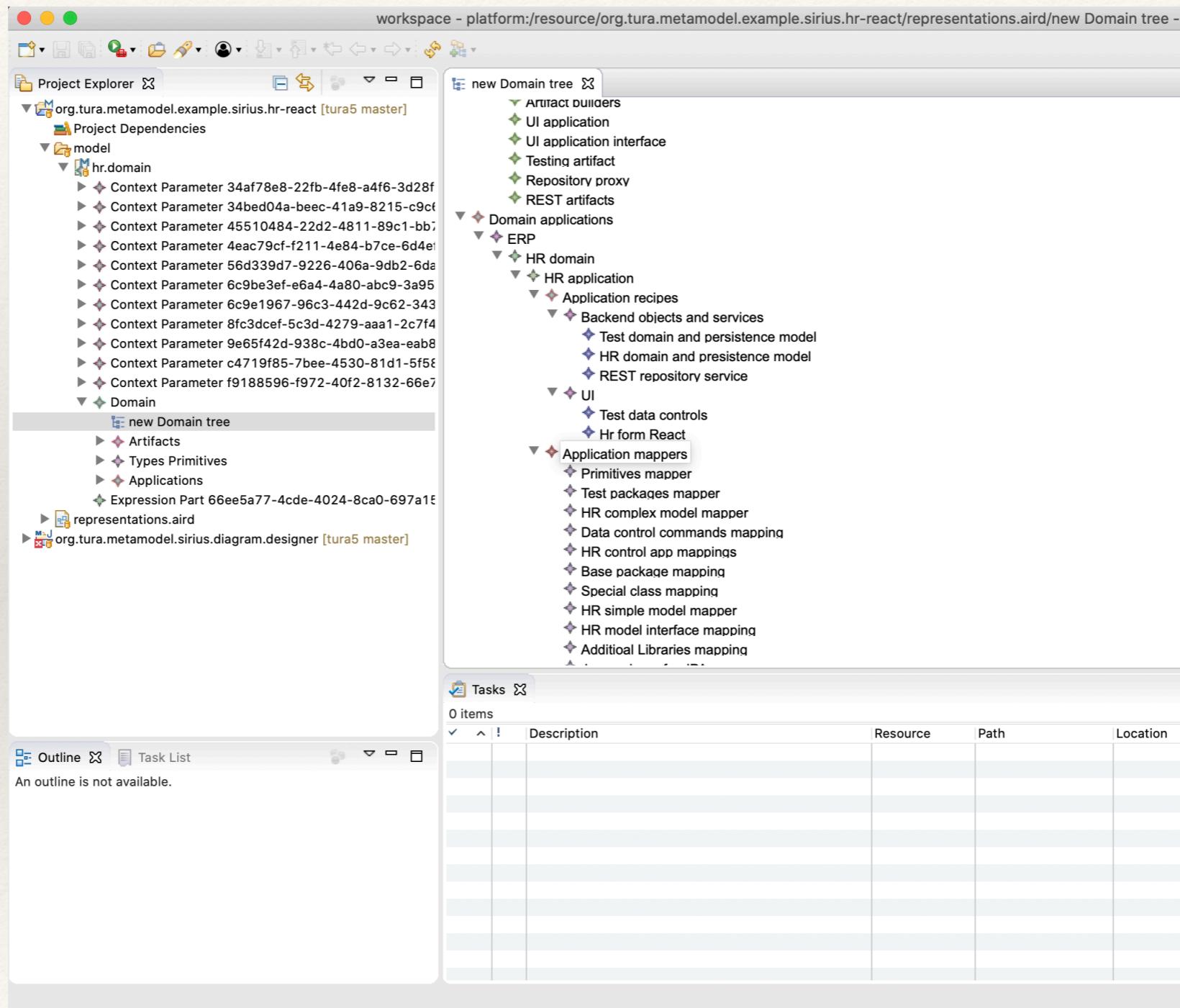
# Open model



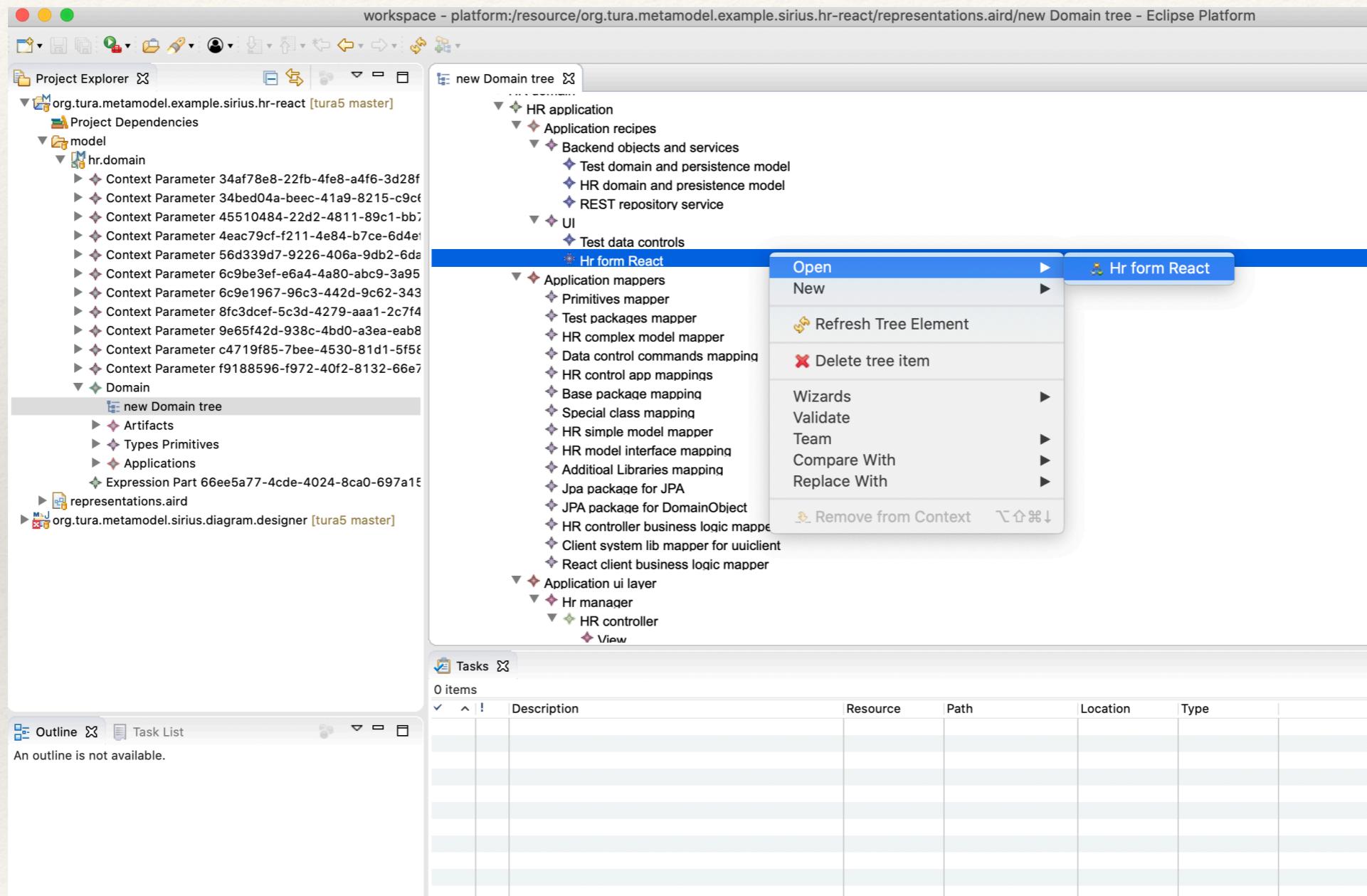
# Open model



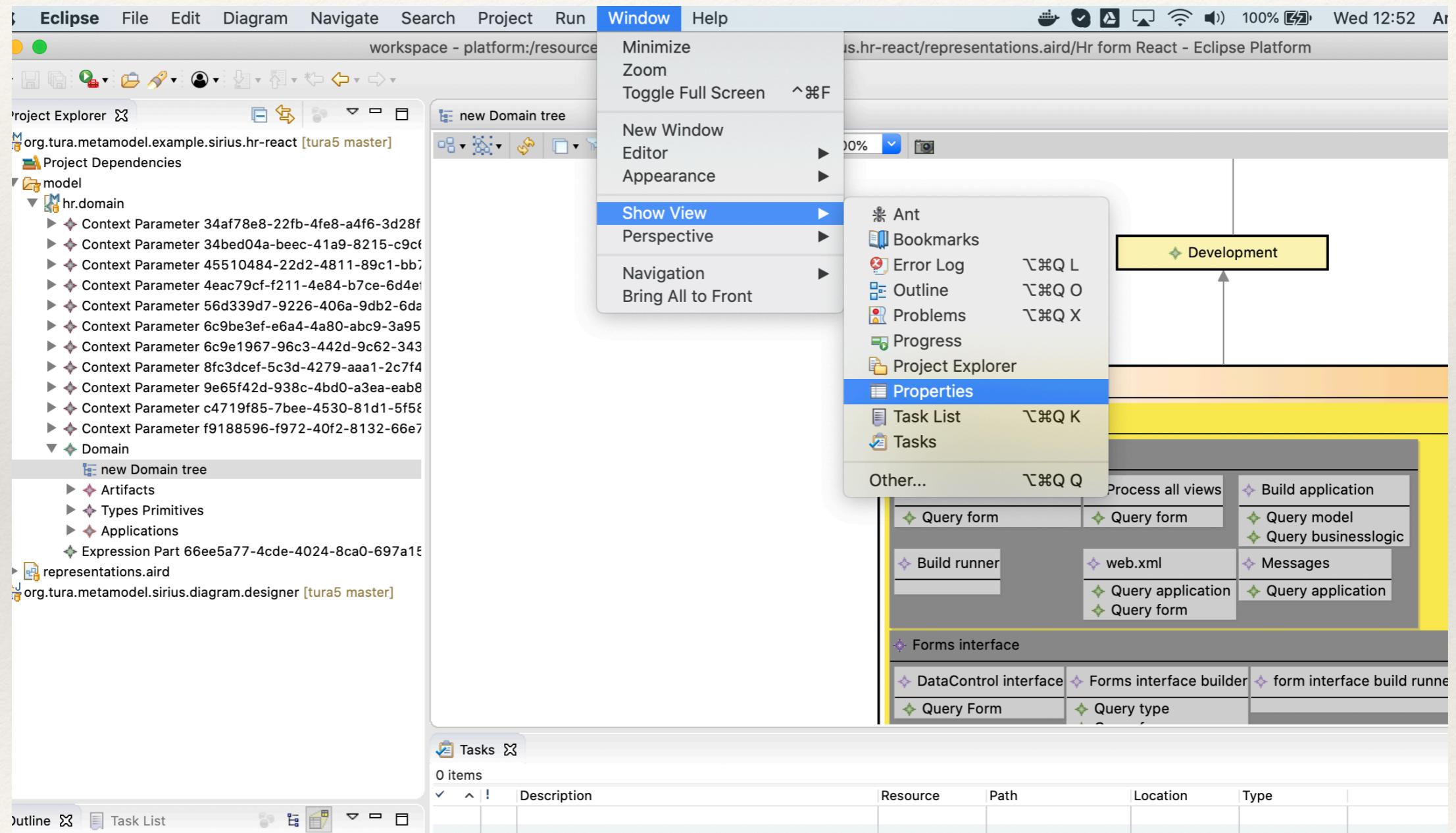
# Open model



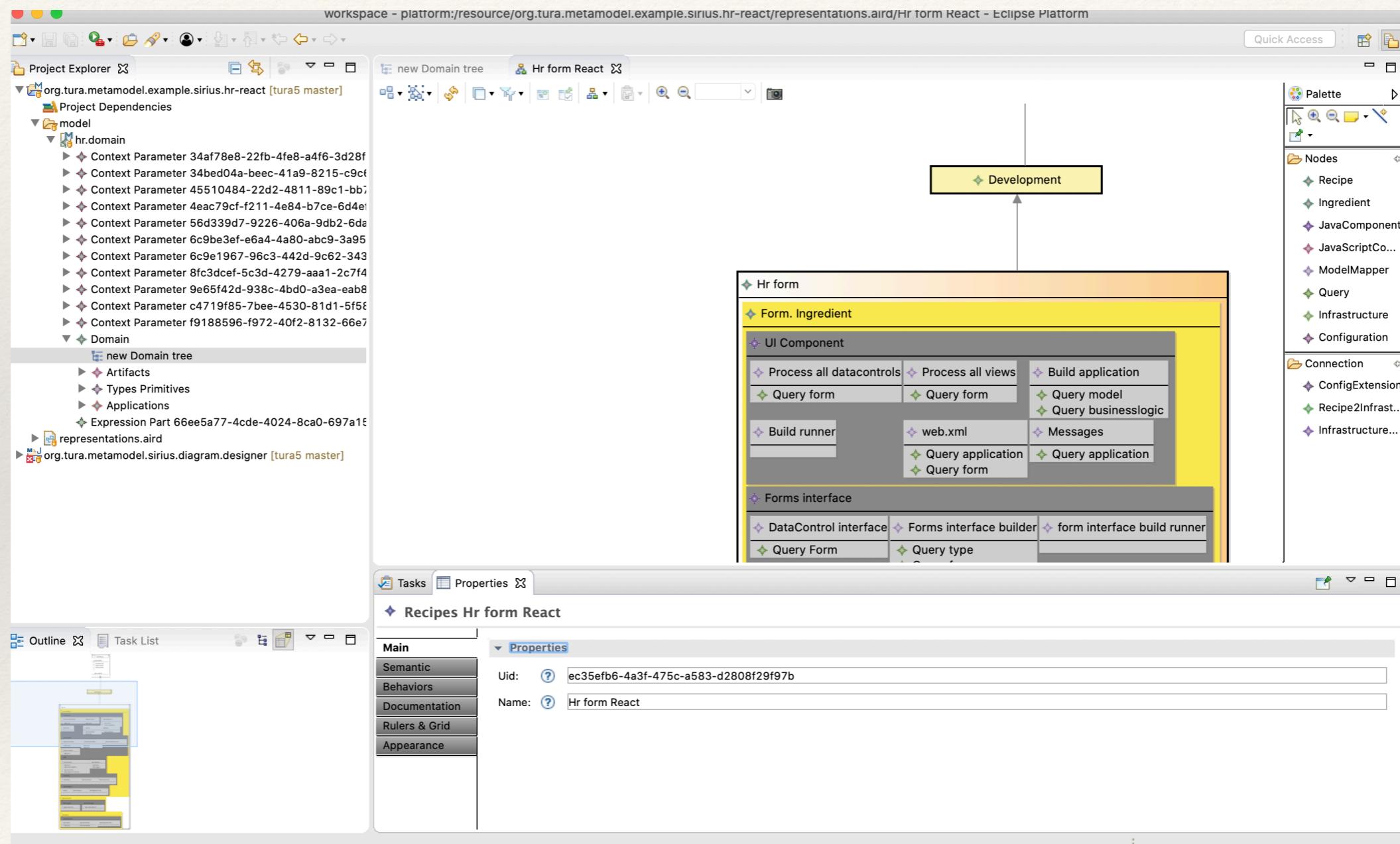
# Open model



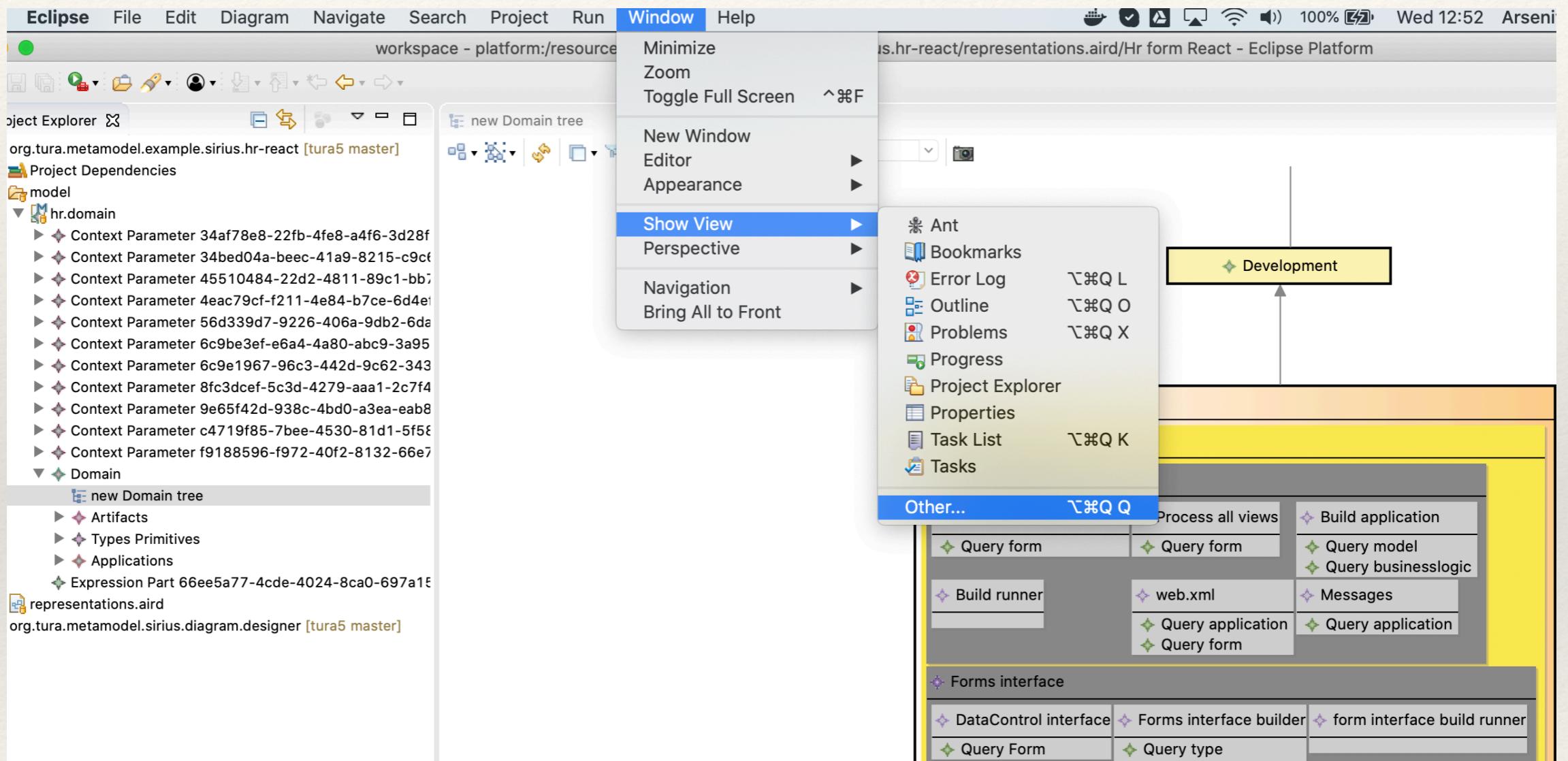
# Open properties window



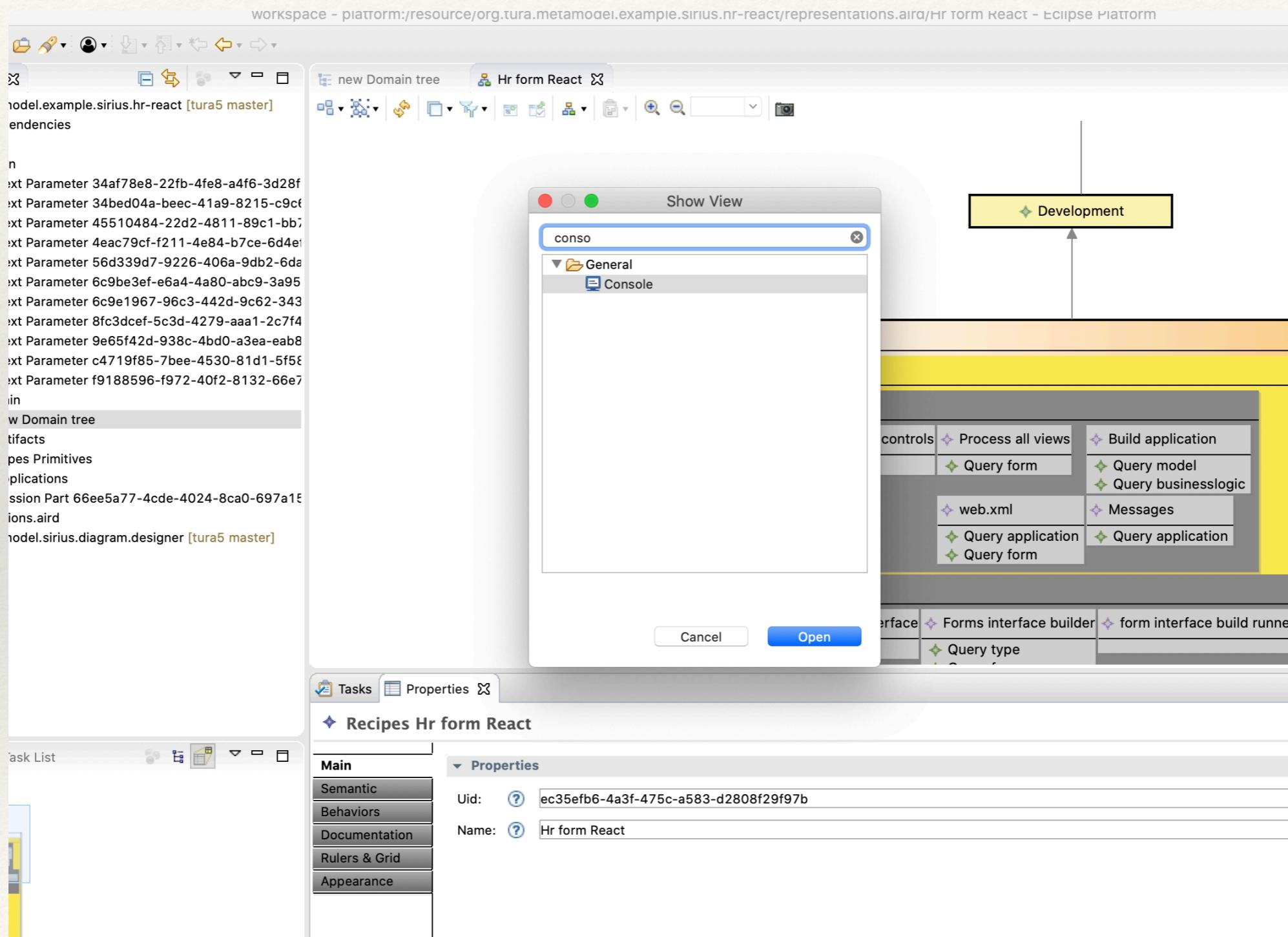
# Open properties window



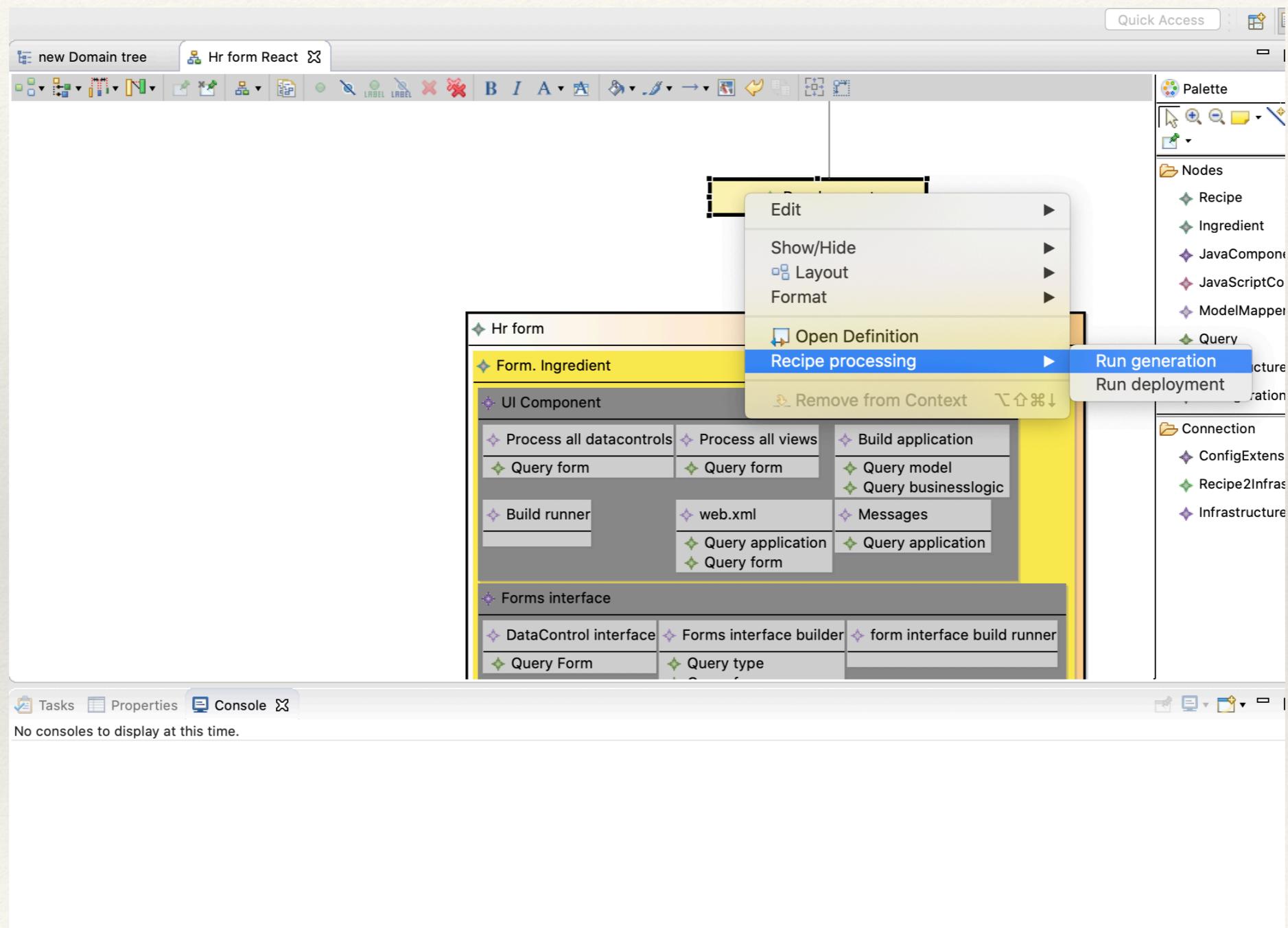
# Open console



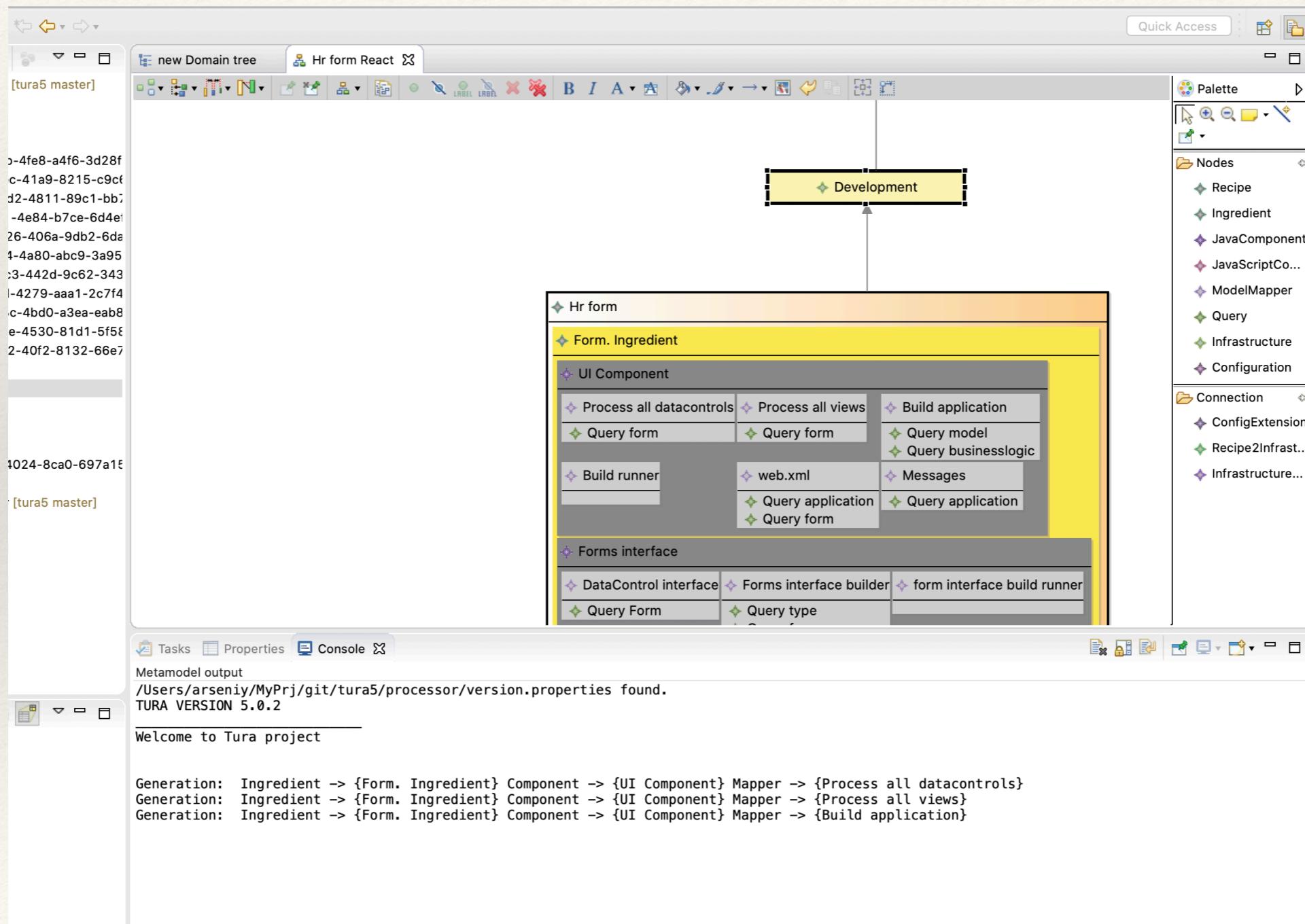
# Open console



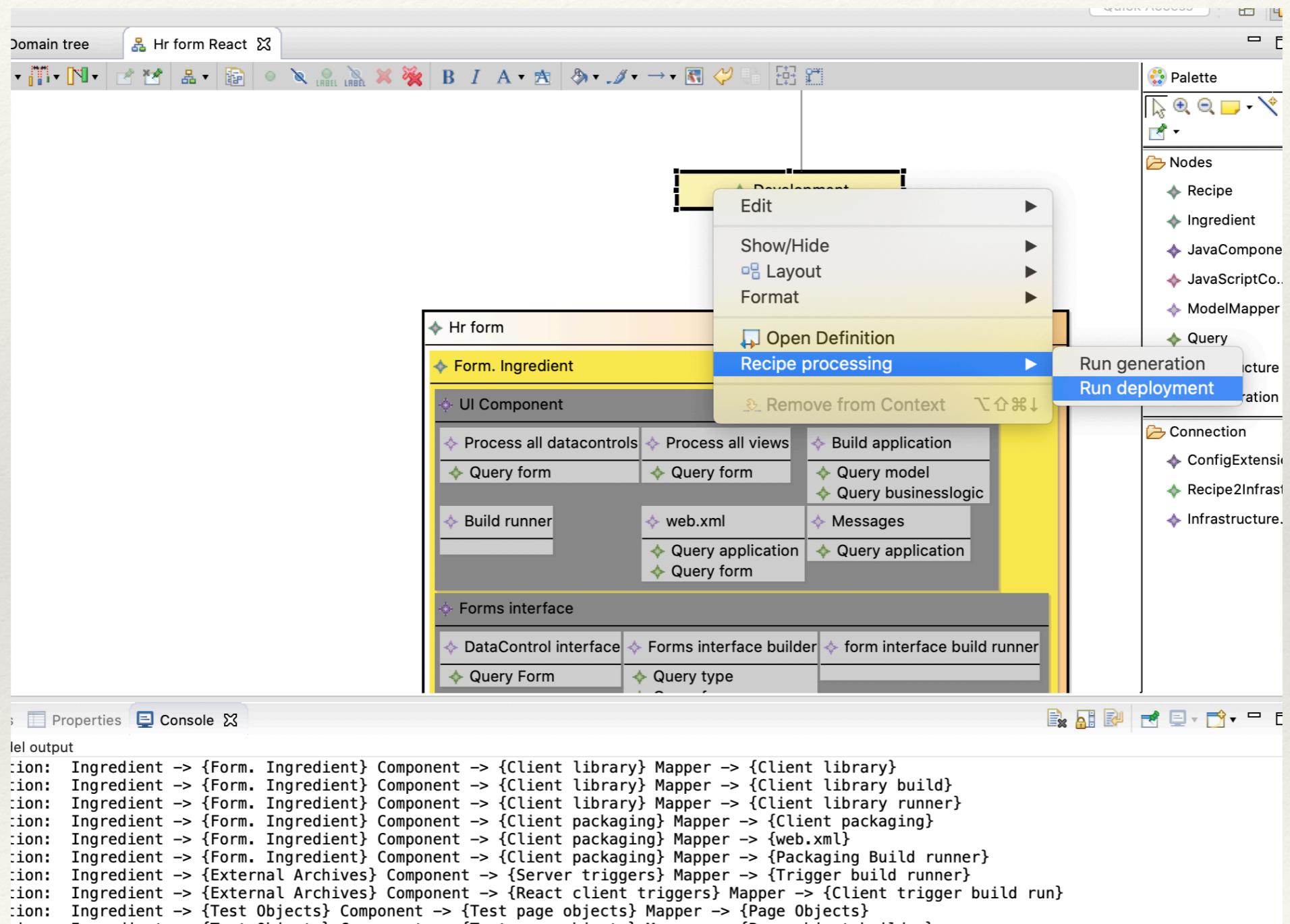
# Generate application



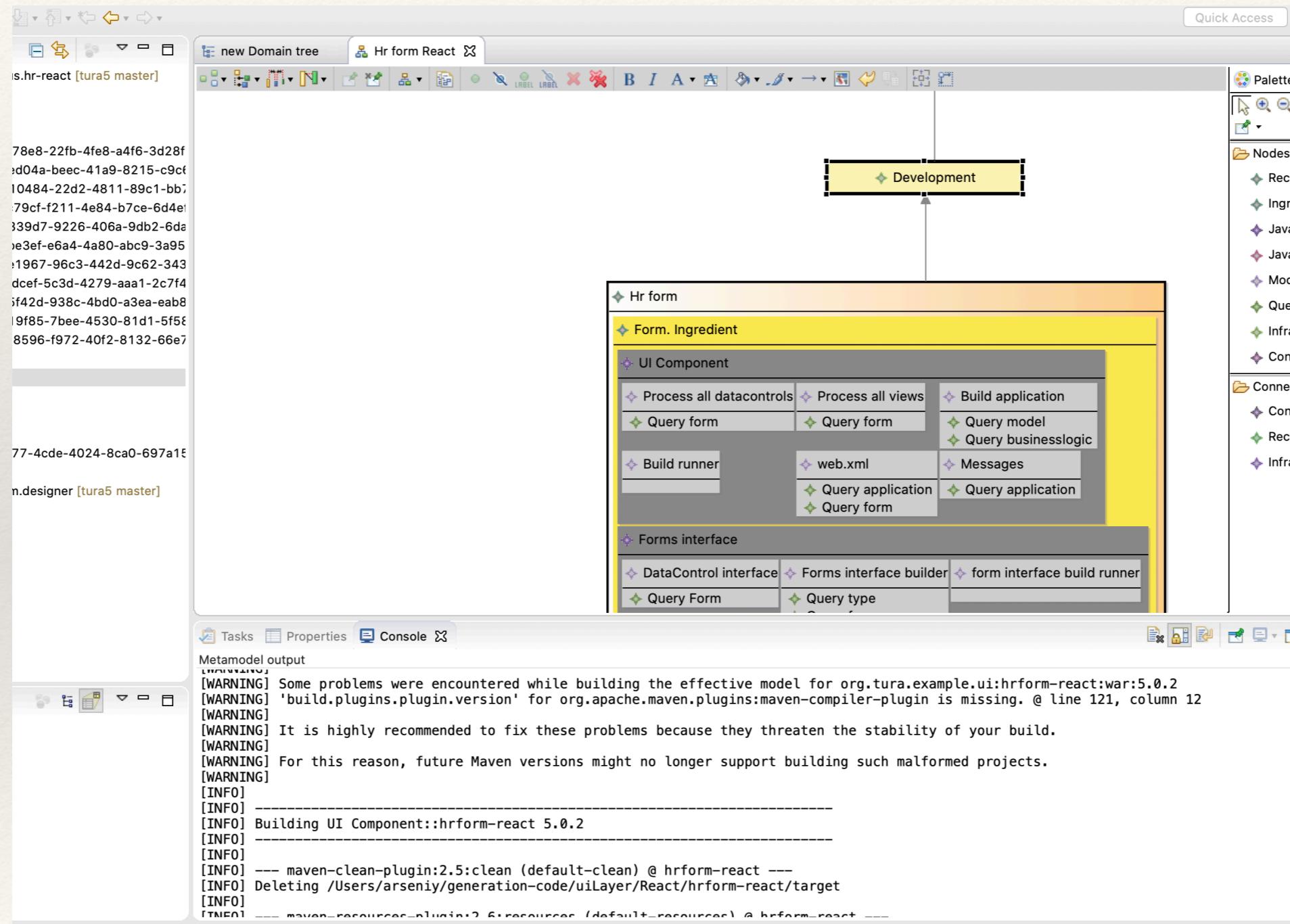
# Generate application



# Build application



# Build application



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# HR application

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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

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# HR application

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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

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# SA application

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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

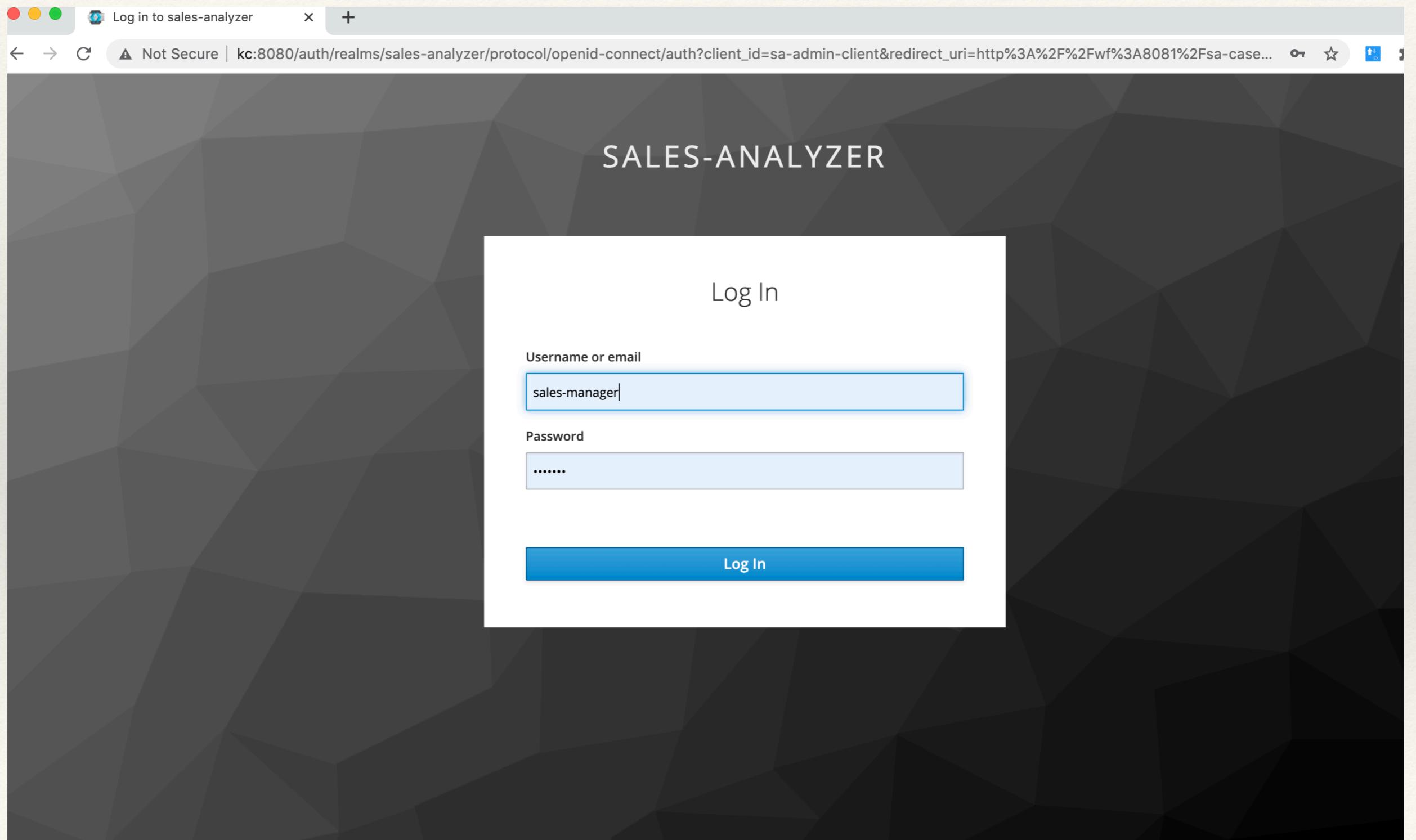
sales-manager/sales01

sales-manager/sales01

Start application

```
shell>closure startSAAplicationWithData
```

# SA application



# SA application

The screenshot shows a web application window titled "React App" with the URL "Not Secure | wf:8081/sa-case-manager-react-client/analysis/casemanager/workItemWindow". The interface includes a sidebar with "Import data", "Case management" (selected), "Admin", and "Logout" options. A "Search" section contains fields for "Province" (dropdown menu "Select value"), "Assign to" (text input and icons), "City" (text input and search icon), "Product" (text input), and "Case id" (text input). Below these is a "Query" button and a "Clear" button. The main content area is titled "Workitems" and displays a table with the following data:

	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	

Pagination controls at the bottom of the table allow for navigating through more items.

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# Configuration of artifact repository

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Optional step

# 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>
```

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# Configuration of artifact repository

---

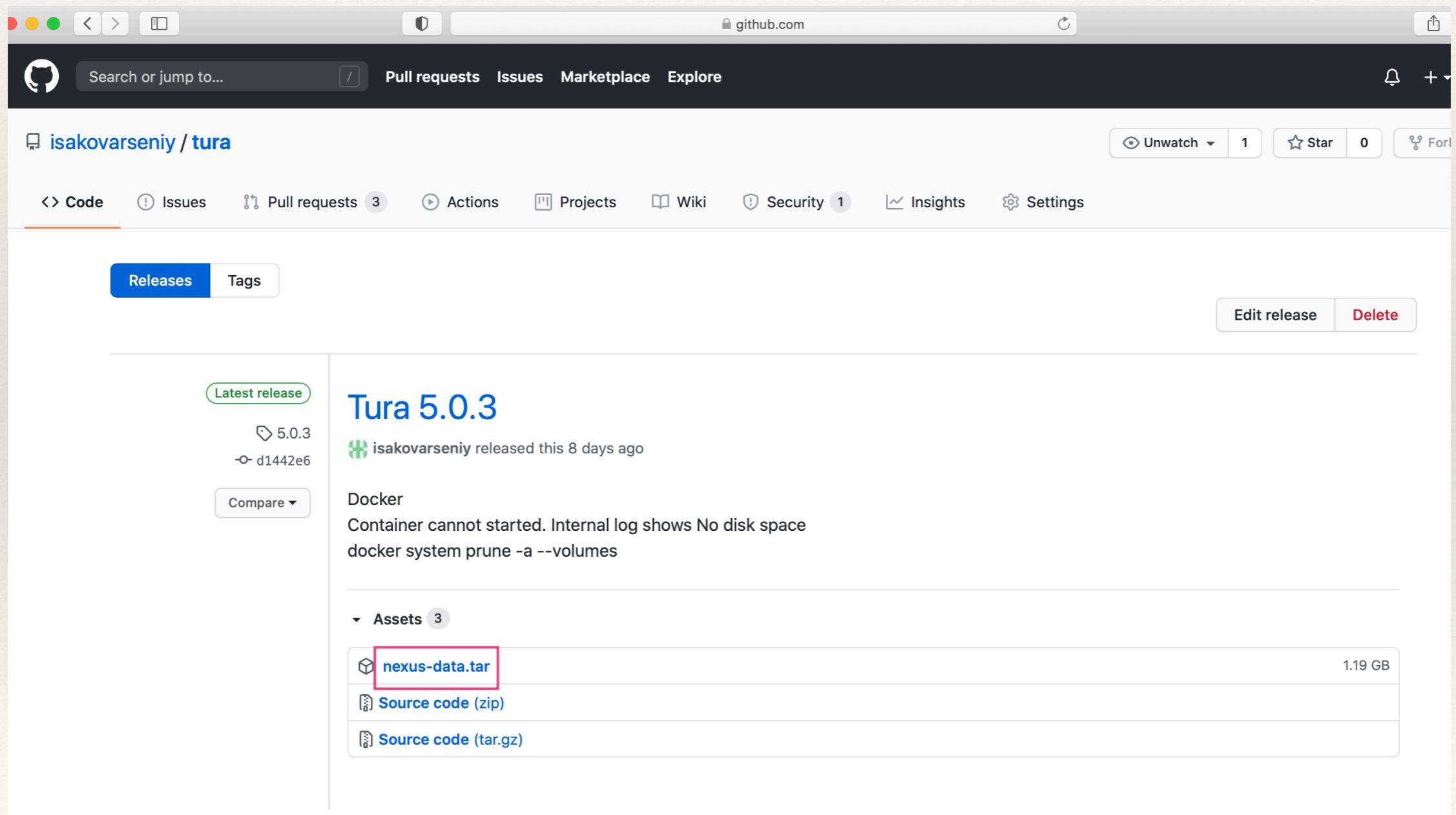
Add local registry to npm

```
>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
```

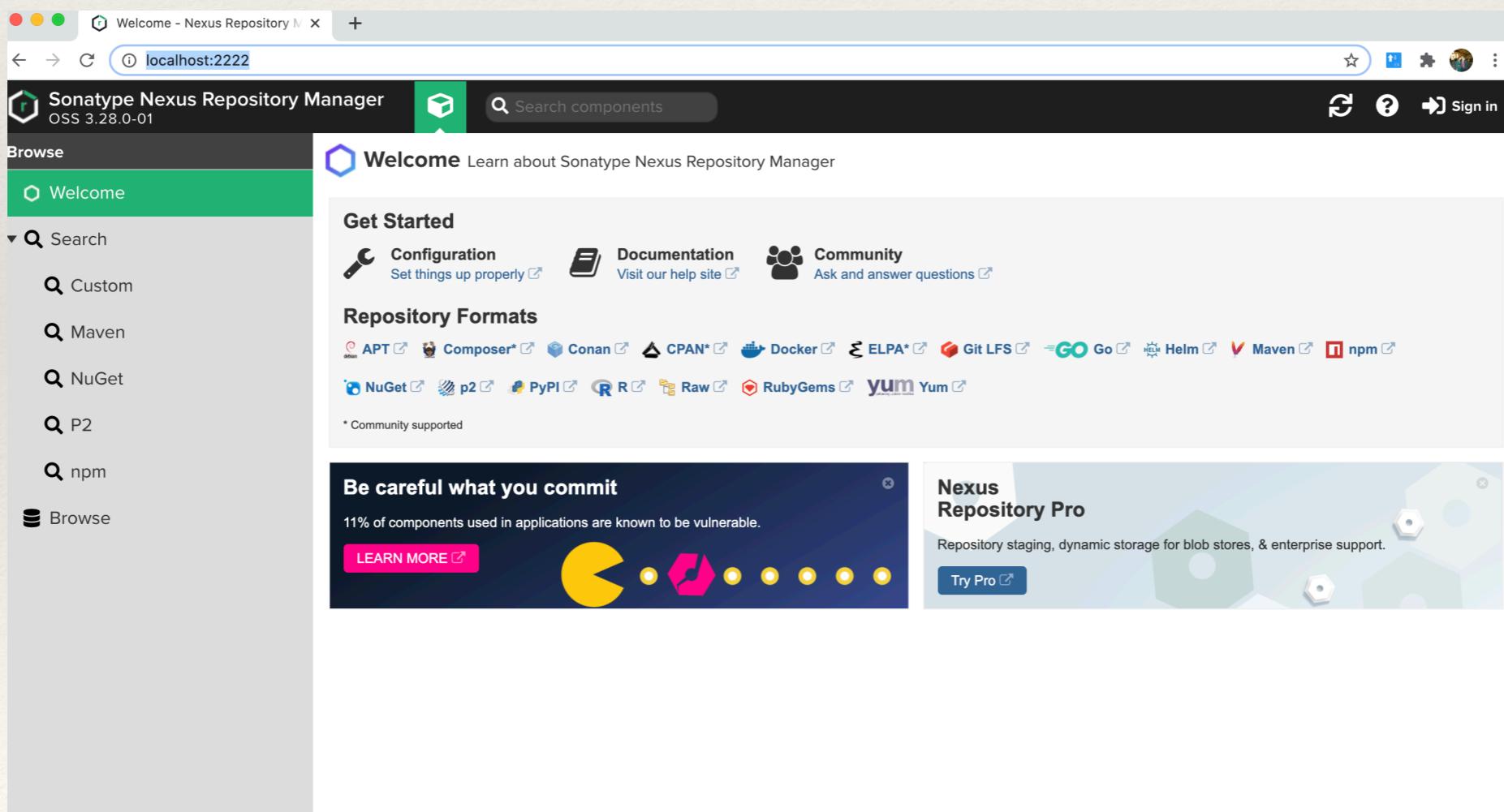
Start nexus repository

```
shell>closure nexusStart
```

# Configuration of artifact repository

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

Credential admin/admin1



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# Tura solution

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Request to [Arseniy.Isakov@turasolutions.com](mailto:Arseniy.Isakov@turasolutions.com)