

- To generate a quarkus project, you have 5 different ways:

In the Quarkus Website

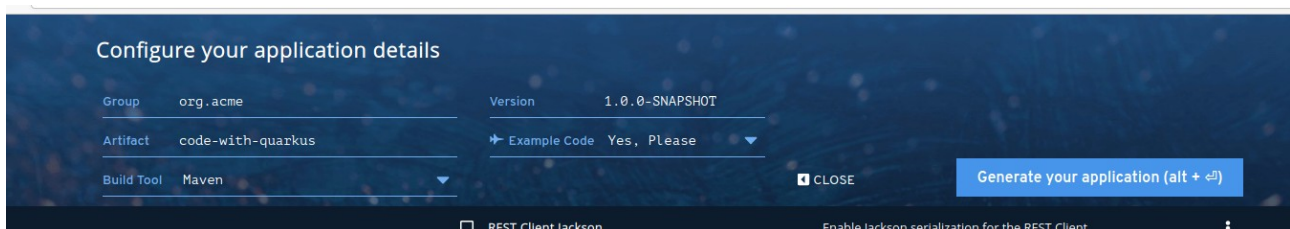
- Enter in this web site to generate your maven project

<https://quarkus.io/>

- Go to Start Coding option in the menu




- The main configuration is below



- In the “Pick your extensions” menu, choose the extensions above:
 - SmallRye OpenAPI
 - Quarkus Extension for Spring Data JPA API


- After the selected extensions, go in “Generate your application” and download the zip file

 **QUARKUS** 1.12.1.Final

[Back to quarkus.io](#) [Available with Enterprise Support](#)


Configure your application details

Group	org.acme	Version	1.0.0-SNAPSHOT
Artifact	code-with-quarkus	Example Code	Yes, Please
Build Tool	Maven		

 CLOSE [Generate your application \(alt + ⌘\)](#)

Pick your extensions

Search results ([Clear search](#))

☒ Quarkus Extension for Spring Data JPA API [PREVIEW](#) Use Spring Data JPA annotations to create your data access layer 

Selected Extensions

SmallRye OpenAPI

Quarkus Extension for Spring Data JPA API [PREVIEW](#)

details

Version 1.0.0-SNAPSHOT

Your Supersonic Subatomic App is ready!

Your download should start shortly. If it doesn't, please use the direct link:



DOWNLOAD THE ZIP


What's next?

Unzip the project and start playing with Quarkus by running:

```
./mvnw compile quarkus:dev
```

Follow the guides we prepared for your application:

- [SmallRye OpenAPI](#) 
- [Quarkus Extension for Spring Data JPA API](#) 

For more fun, have a look to our various [Quarkus guides](#) ...

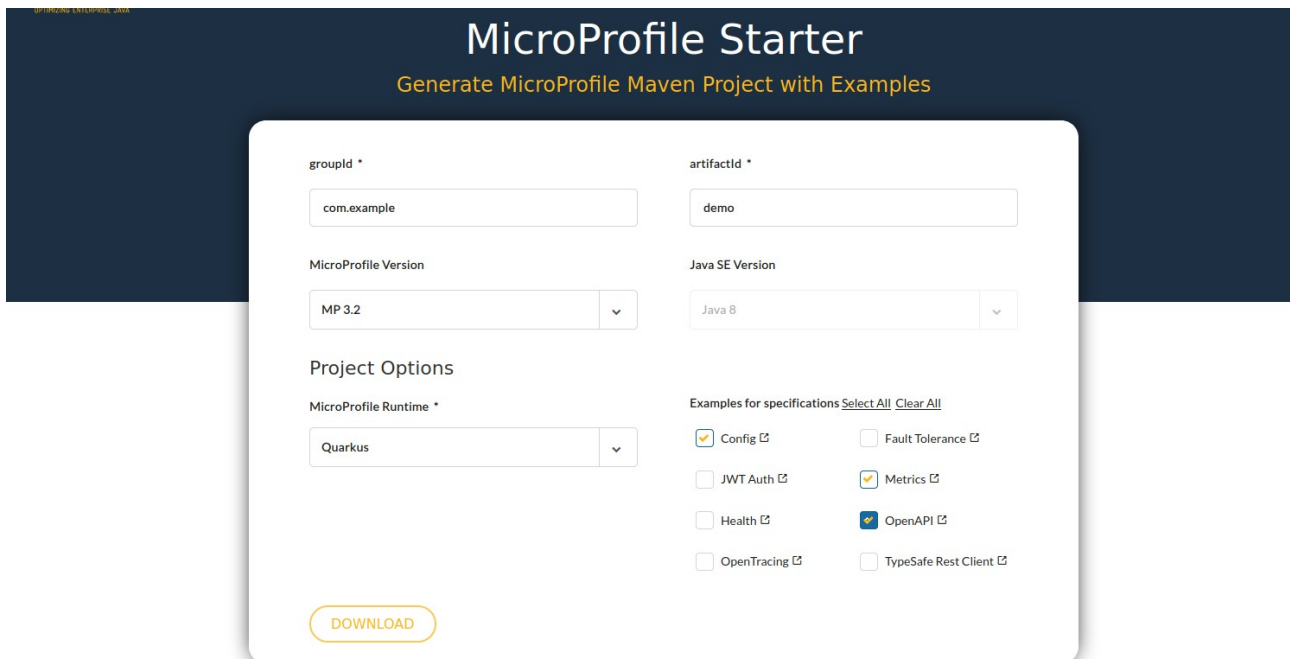
[Close](#) [Start a new application](#)

In the MicroProfile Website

- Enter in this web site to generate your maven project

<https://start.microprofile.io/>

- Put the main configuration below and download the project:



The screenshot shows the 'MicroProfile Starter' web application. The header is dark blue with the title 'MicroProfile Starter' in white and the subtitle 'Generate MicroProfile Maven Project with Examples' in yellow. The main content area is white and contains several form fields and checkboxes. The 'groupId' field is set to 'com.example' and the 'artifactId' field is set to 'demo'. The 'MicroProfile Version' dropdown is set to 'MP 3.2' and the 'Java SE Version' dropdown is set to 'Java 8'. Under 'Project Options', the 'MicroProfile Runtime' dropdown is set to 'Quarkus'. The 'Examples for specifications' section has links for 'Select All' and 'Clear All'. The checkboxes for 'Config', 'Metrics', and 'OpenAPI' are checked, while 'Fault Tolerance', 'JWT Auth', 'Health', 'OpenTracing', and 'TypeSafe Rest Client' are unchecked. A yellow 'DOWNLOAD' button is at the bottom left of the form.

MicroProfile Starter
Generate MicroProfile Maven Project with Examples

groupId *
com.example

artifactId *
demo

MicroProfile Version
MP 3.2

Java SE Version
Java 8

Project Options

MicroProfile Runtime *
Quarkus

Examples for specifications [Select All](#) [Clear All](#)

☒ Config [↗](#) ☐ Fault Tolerance [↗](#)

☐ JWT Auth [↗](#) ☒ Metrics [↗](#)

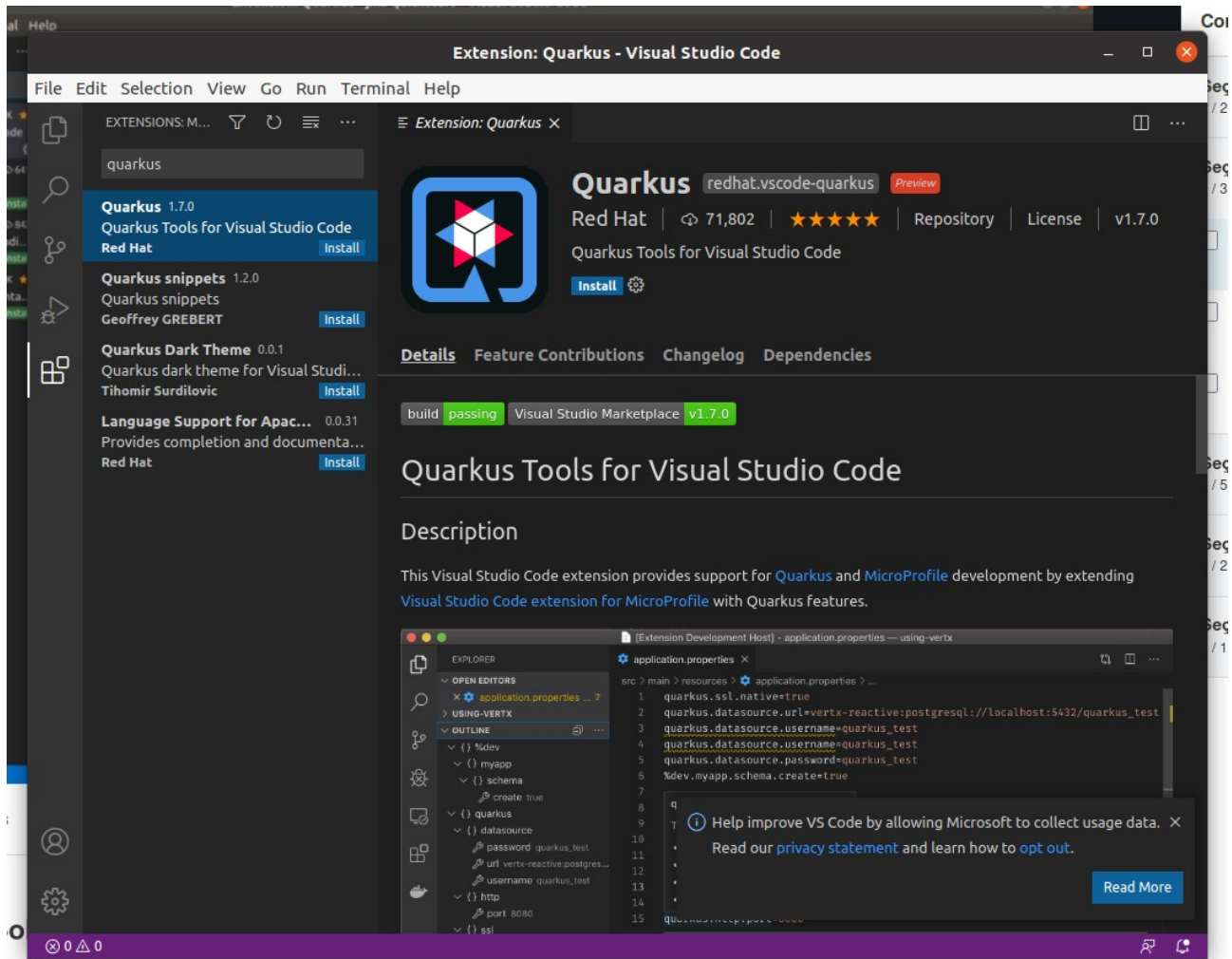
☐ Health [↗](#) ☒ OpenAPI [↗](#)

☐ OpenTracing [↗](#) ☐ TypeSafe Rest Client [↗](#)

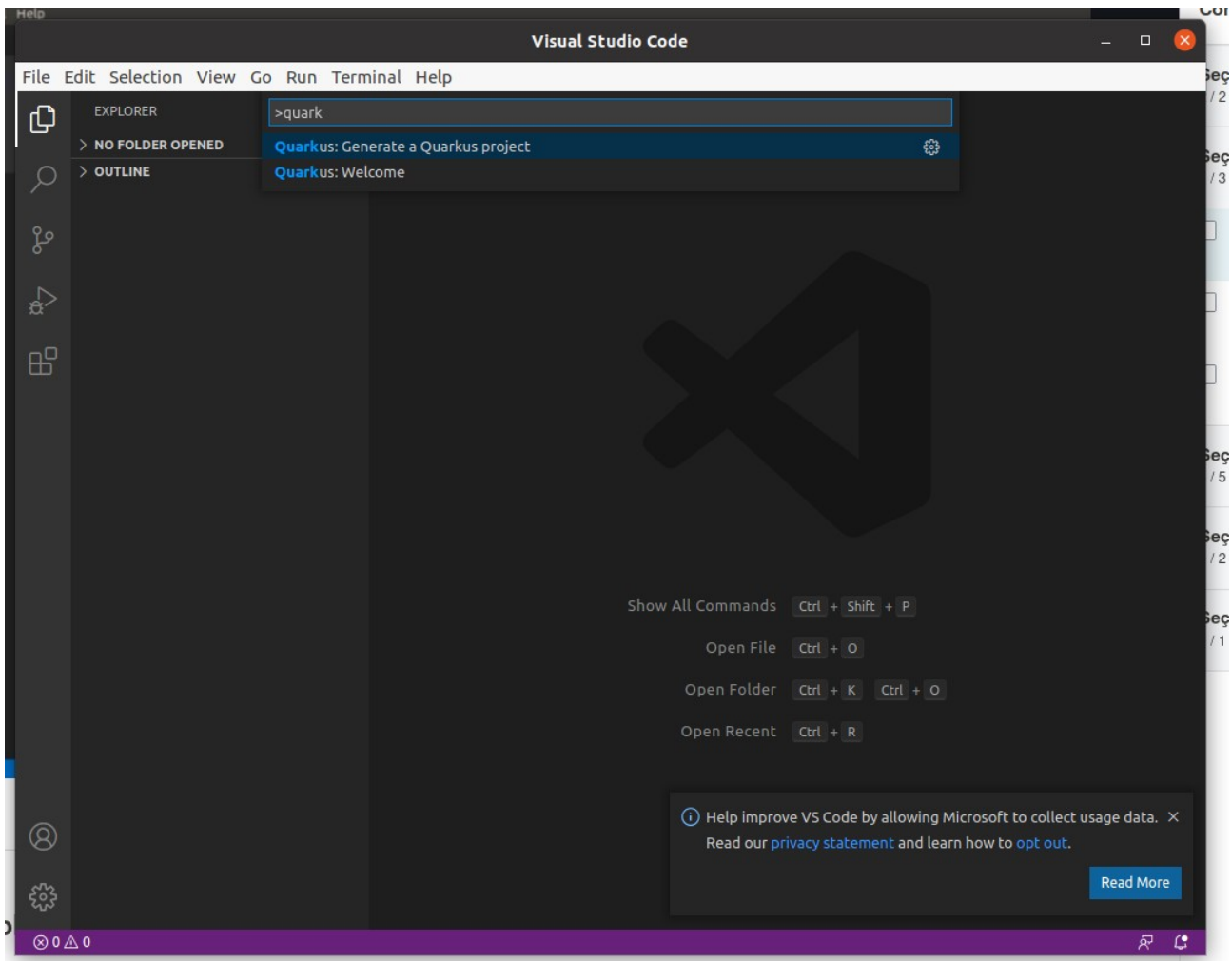
[DOWNLOAD](#)

With Visual Studio Code

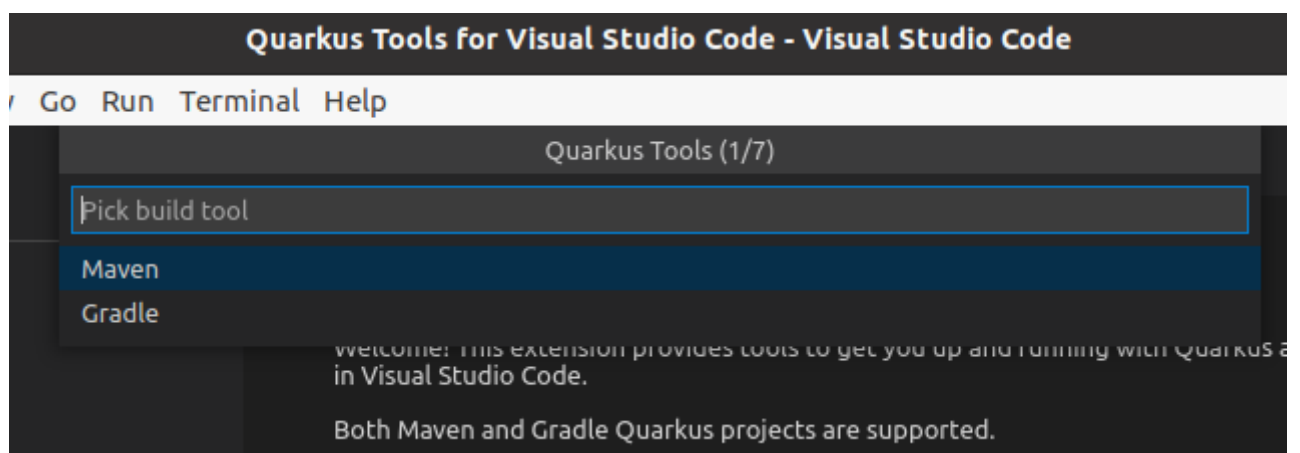
- Install the Quarkus extension in visual studio code

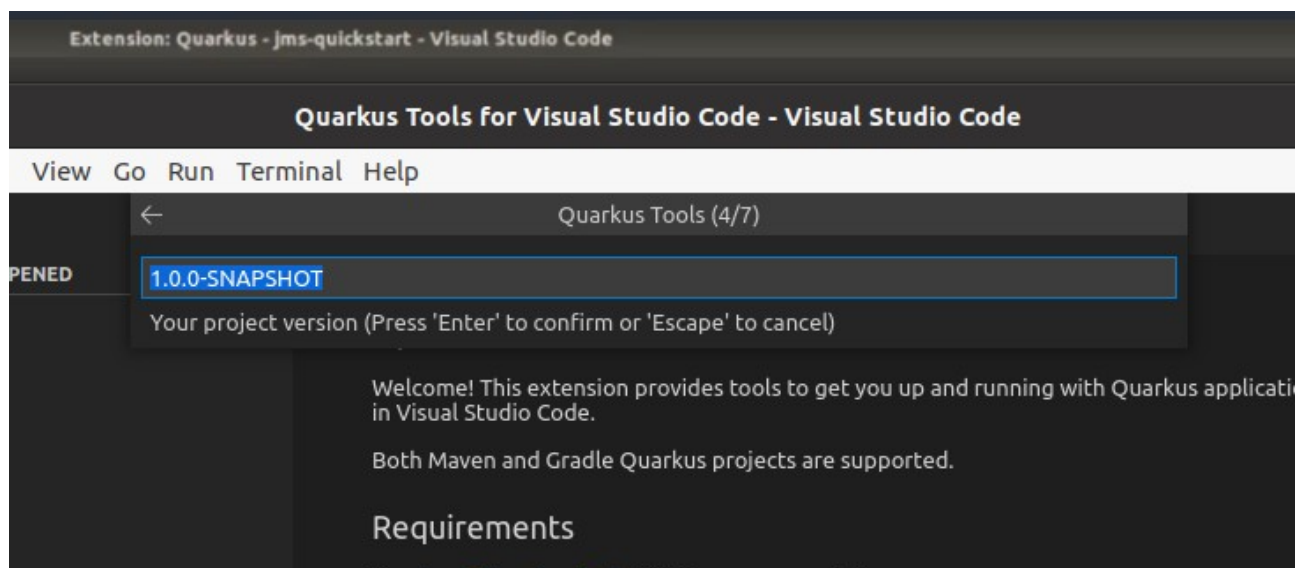
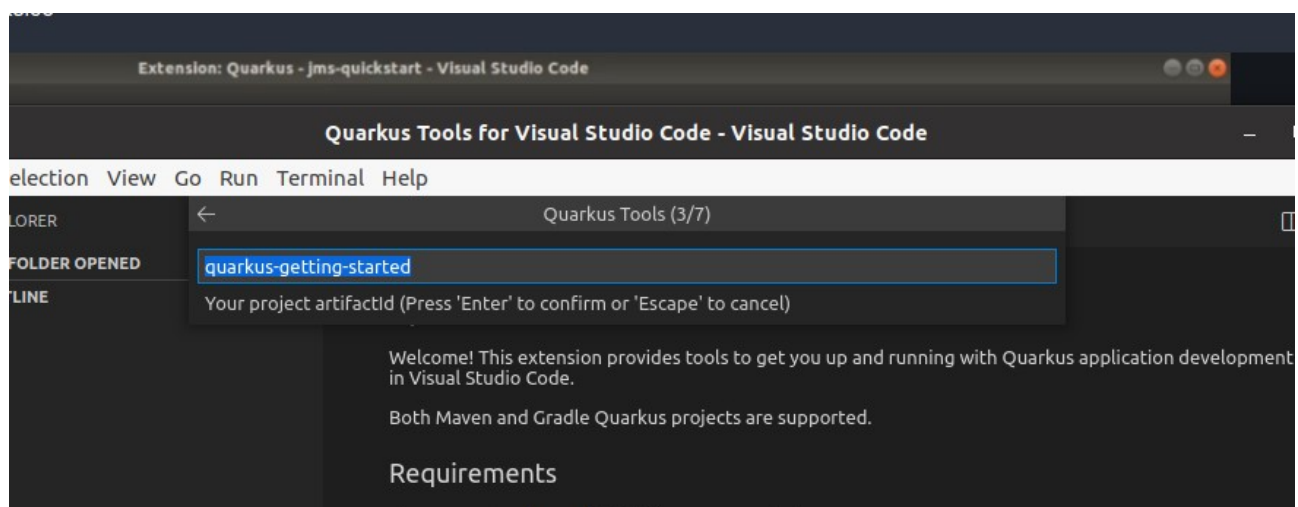
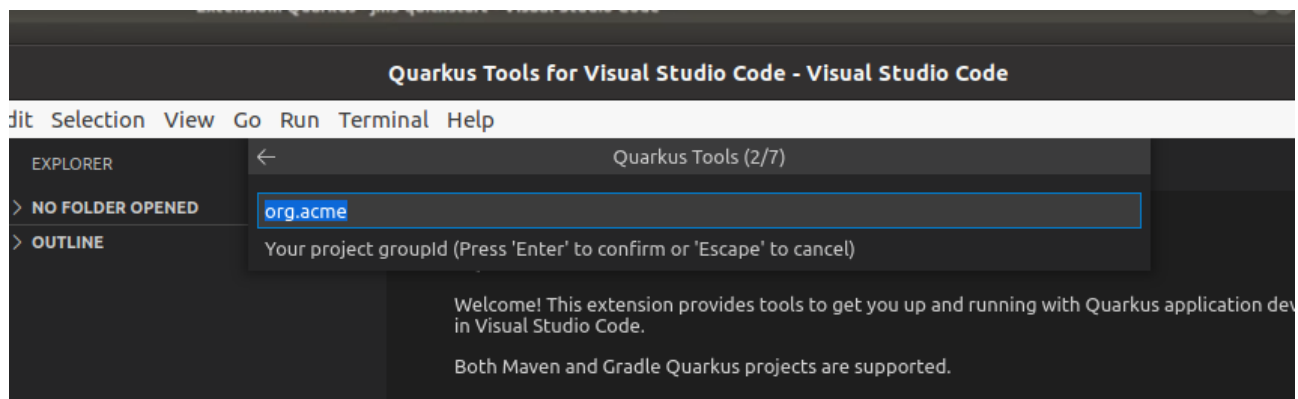


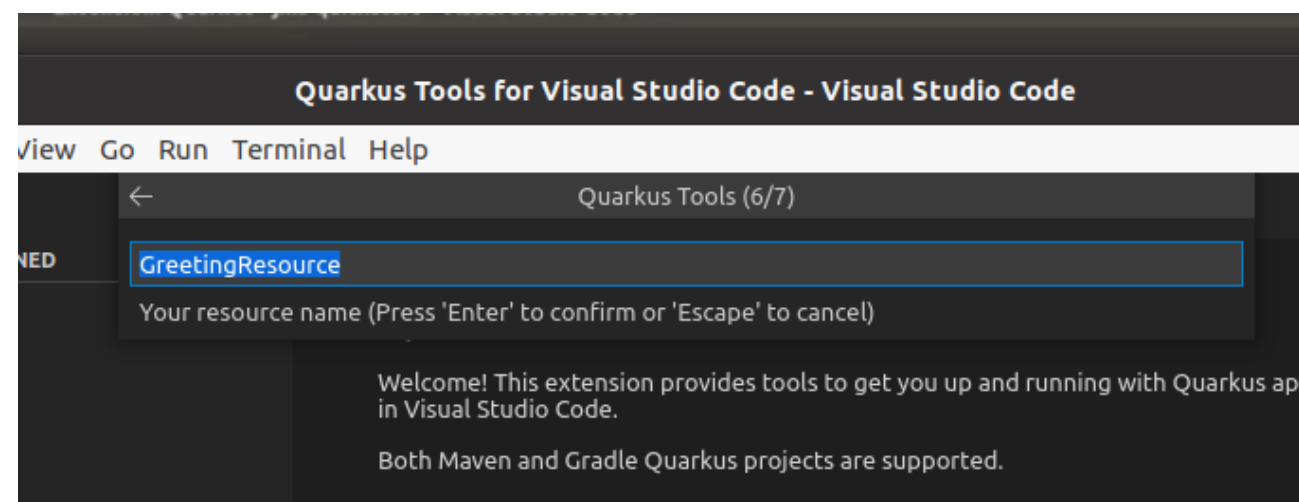
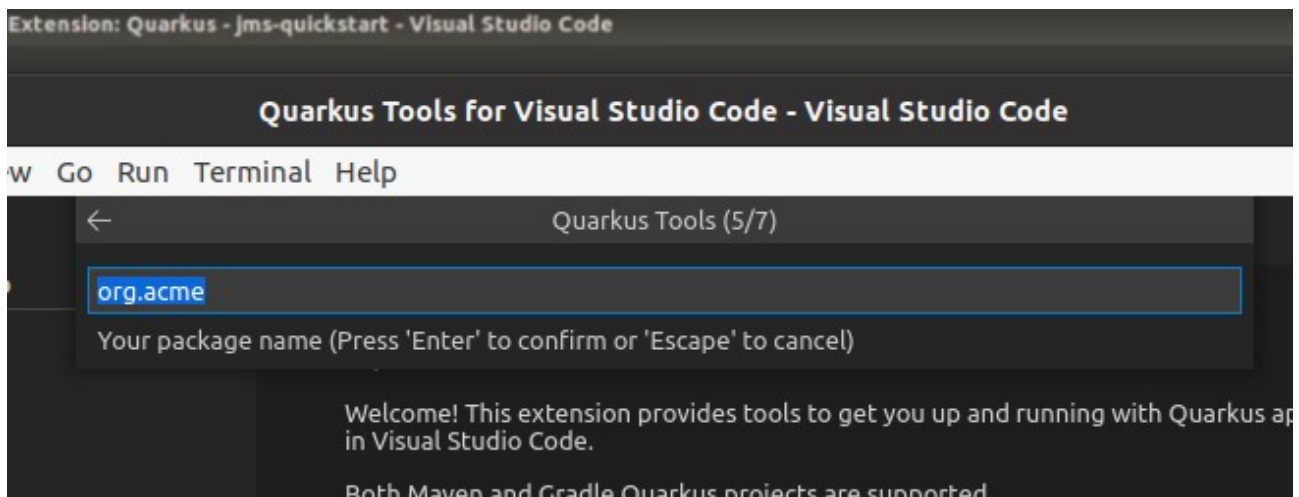
- Put ctrl + shift + p and go in the option “Quarkus: Generate a Quarkus project”



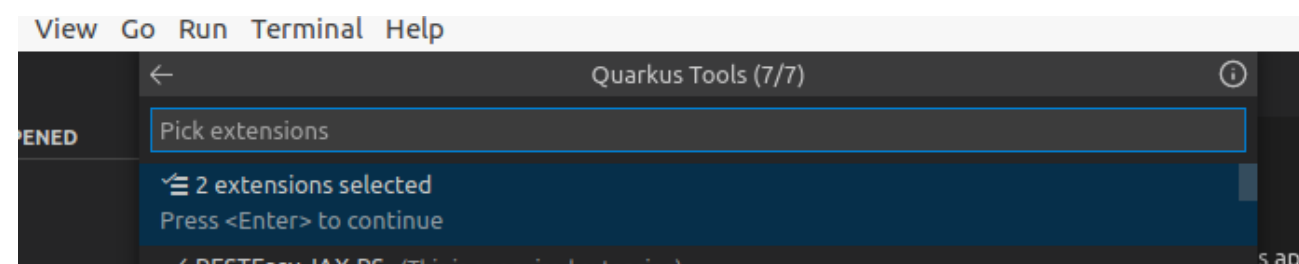
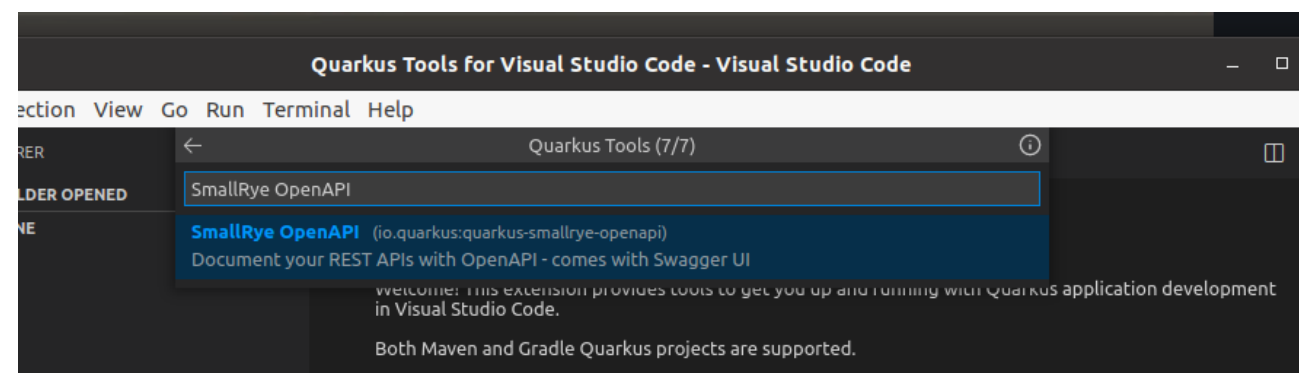
- Choose maven



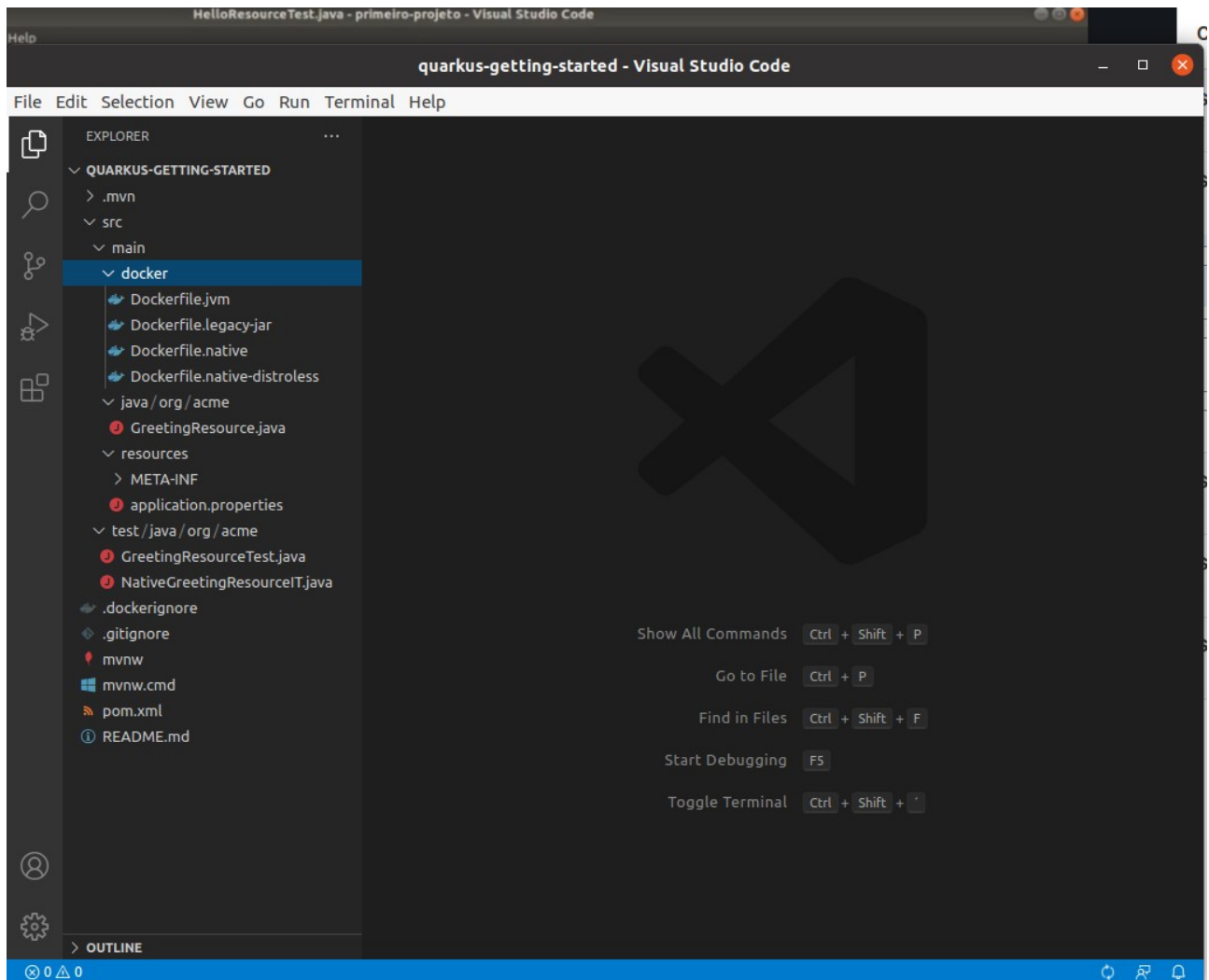




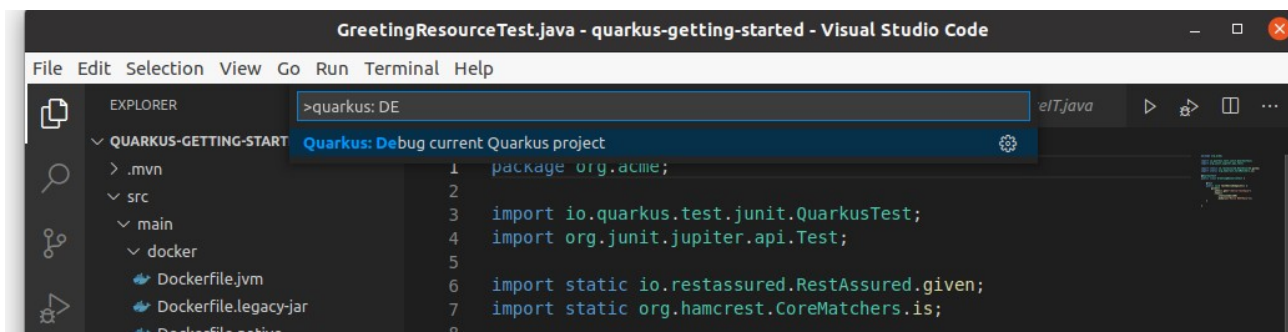
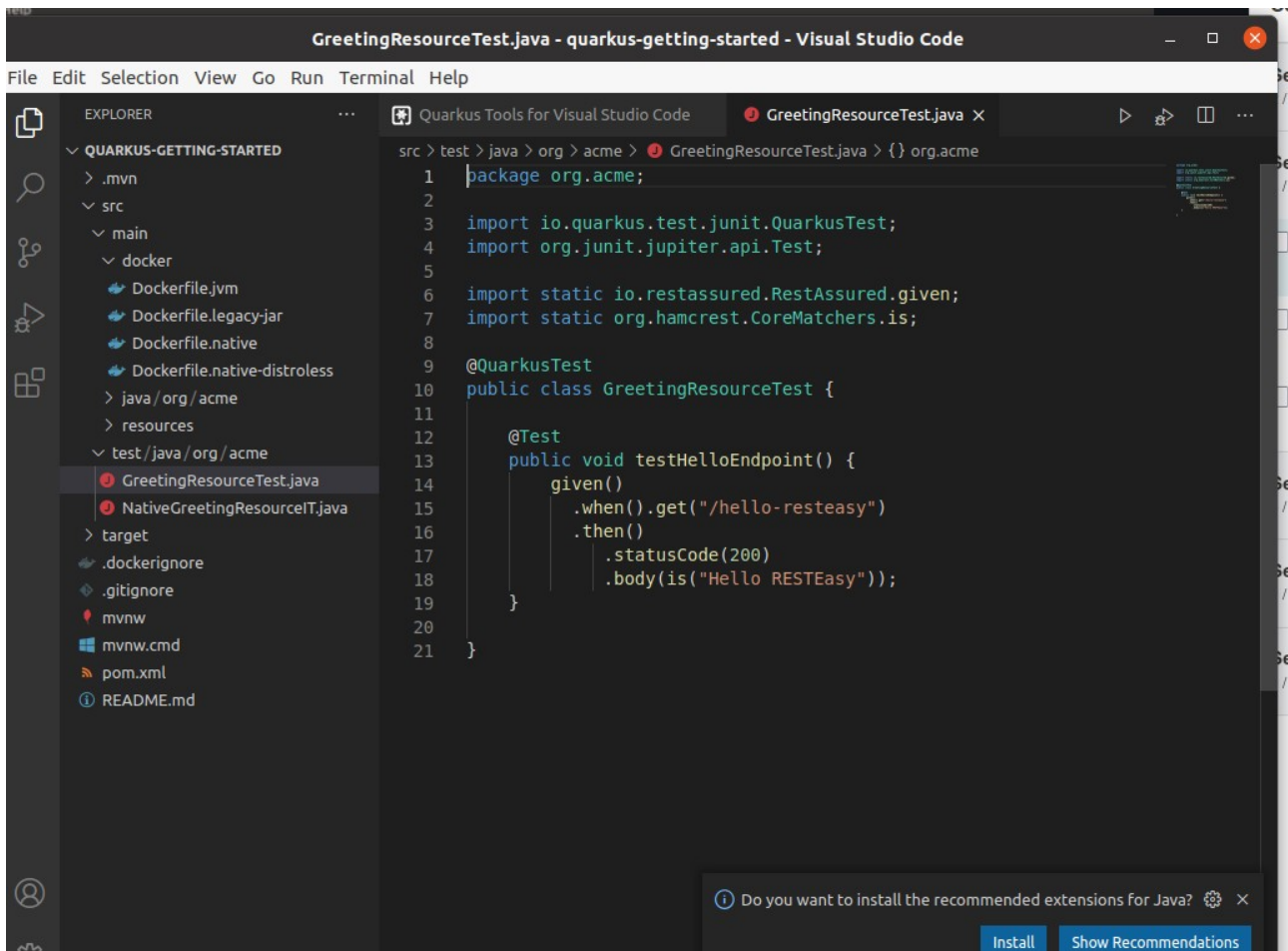
- Choose the extension SmallRye OpenAPI



- Now, is gonna open your project in Visual Studio Code



- To test, go in the resource class “GreetingResourceTest.java” and put ctrl + shift + p and go in “Quarkus: debug current Quarkus project”



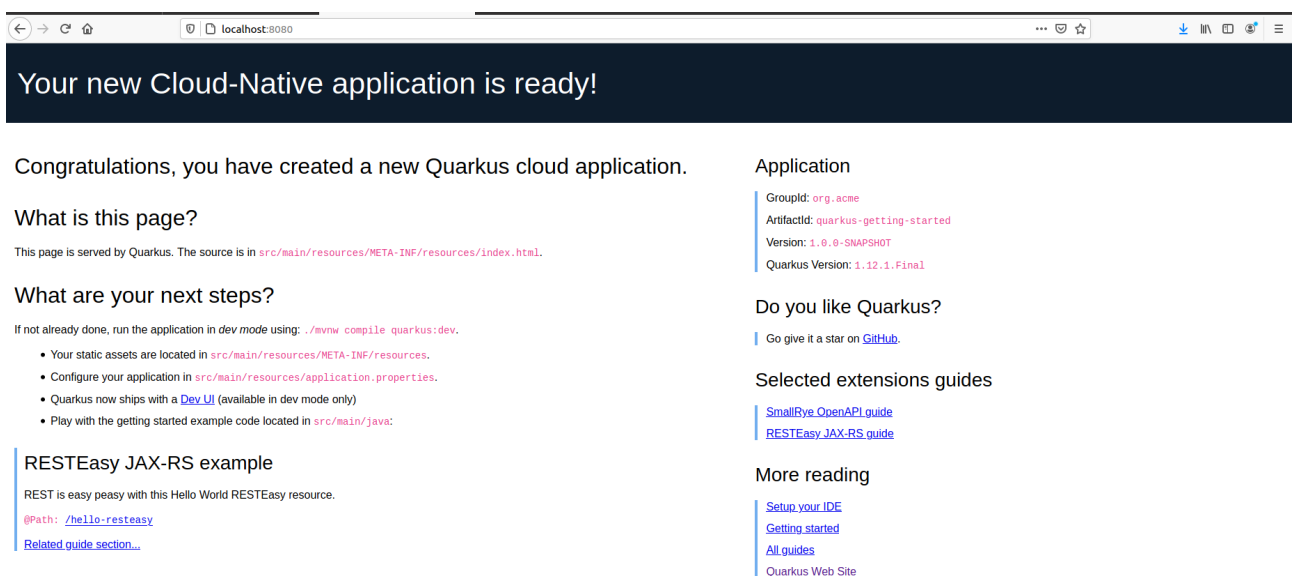
- See the terminal below. He create the application in <http://localhost:8080>

```

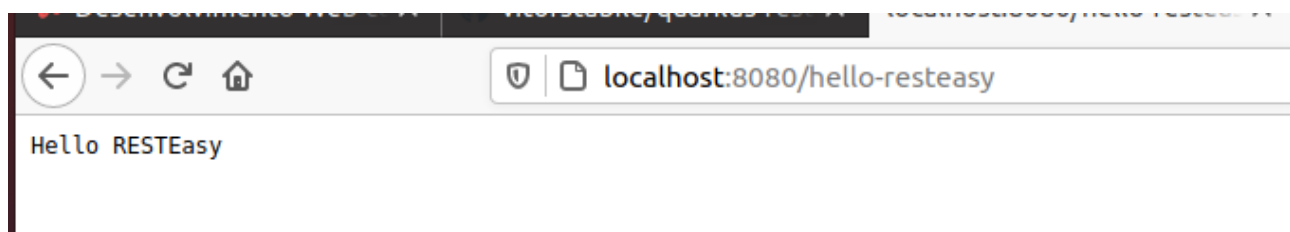
2021-03-03 16:59:38,401 INFO [io.quarkus] (Quarkus Main Thread) quarkus-getting-started 1.0.0-SNAPSHOT on JVM (powered by Quarkus 1.12.1.Final) started in 1.853s. Listening on: http://localhost:8080
2021-03-03 16:59:38,407 INFO [io.quarkus] (Quarkus Main Thread) Profile dev activated. Live Coding activated.
2021-03-03 16:59:38,407 INFO [io.quarkus] (Quarkus Main Thread) Installed features: [cdi, resteasy, smallrye-openapi, swagger-ui]

```

- Access the application in <http://localhost:8080> and you will see this:



- Go in the path [/hello-resteasy](http://localhost:8080/hello-resteasy) to see the message:



- Go in the /swagger-ui to see the requisitions:

The screenshot shows the Swagger UI interface in a web browser. The address bar displays `localhost:8080/q/swagger-ui/#/default/get_hello_resteasy`. The Swagger UI header includes the Swagger logo, the text "Swagger UI", a search bar containing `/q/openapi`, and an "Explore" button. The main content area is titled "Generated API" with version indicators "1.0" and "OAS3". Below this, the "default" API namespace is selected. The endpoint `GET /hello-resteasy` is highlighted. The "Parameters" tab is active, showing "No parameters". The "Responses" tab is also visible. A table lists the response codes, with a 200 status code and an "OK" description. A "Media type" dropdown is set to "text/plain". The "Example Value" field shows the type "string".

Swagger UI

/q/openapi

Explore

quarkus-getting-started 1.0.0-SNAPSHOT (powered by Swagger)

Generated API 1.0 OAS3

/q/openapi

default

GET /hello-resteasy

Try it out

Parameters

No parameters

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

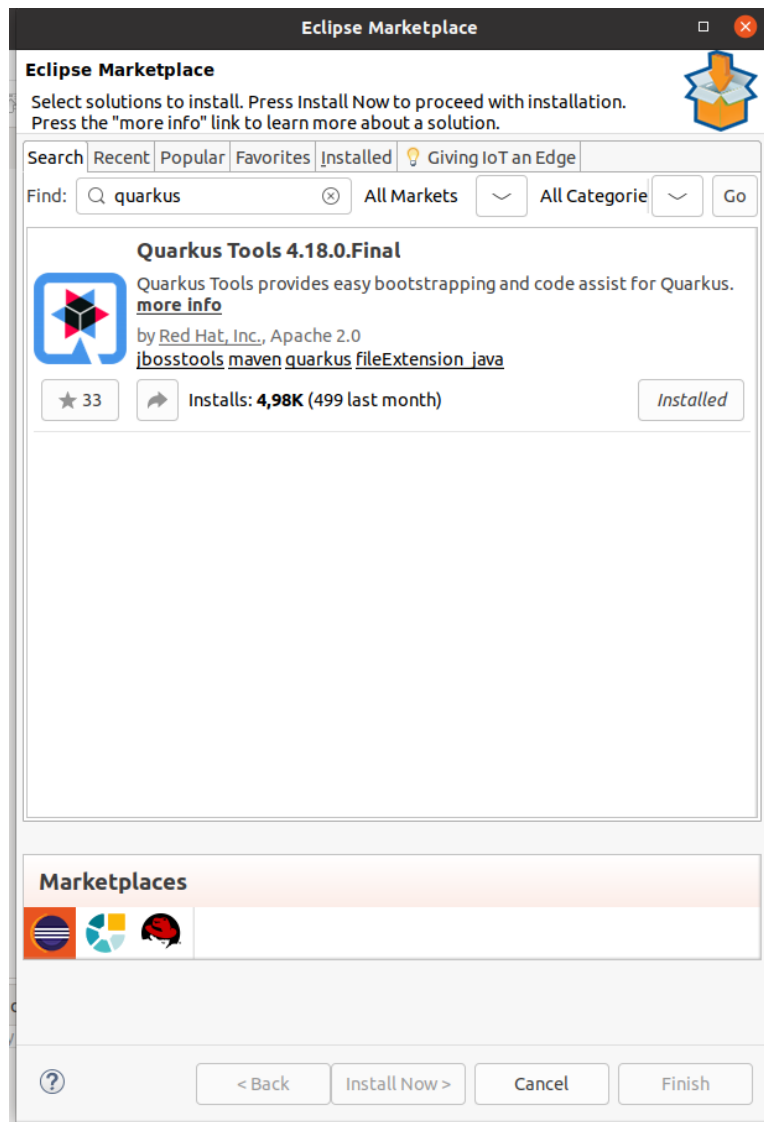
Controls Accept header.

Example Value | Schema

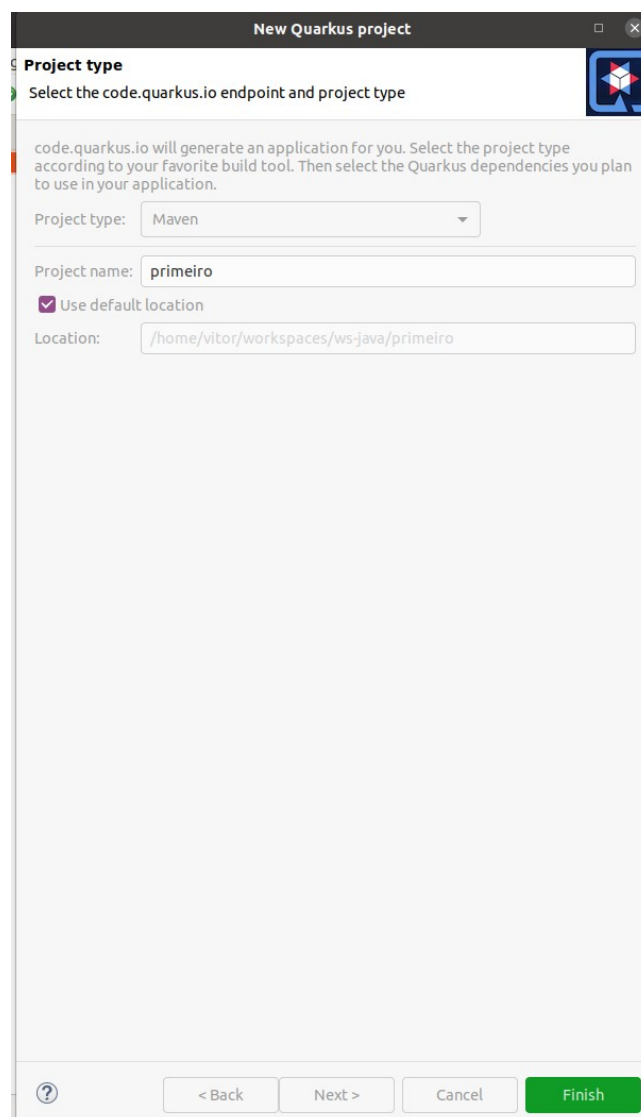
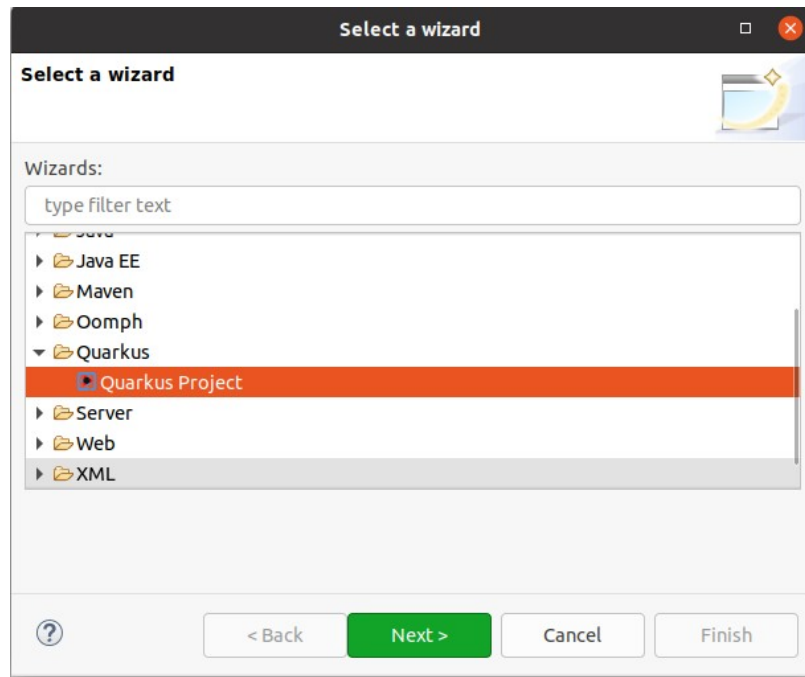
string

With Eclipse

- Go in the Eclipse Market Place and install Quarkus Extension



- Create a Quarkus Project and follow the guide below:



New Quarkus project

Project type
Select the code.quarkus.io endpoint and project type

Example code: ☒ If selected, project will contain sample code from extensions that support codestarts.

Maven Artifact:

Artifact id:

Group id:

Version:

REST:

Class name:

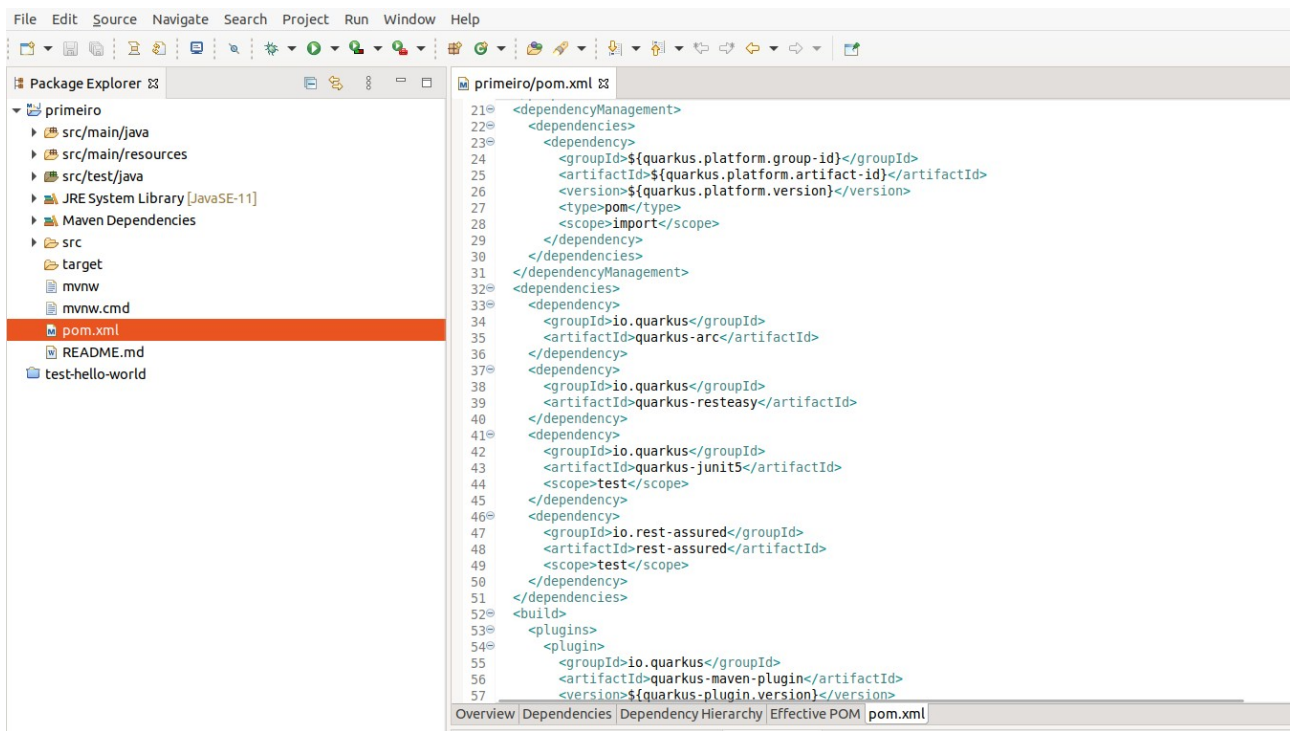
Path:

- Add the extensions and finish

Extension from the selected extensions list. The currently selected extensions are displayed in the right column.

Extension Categories:	Available Extensions:	Selected Extensions:
Web	Hibernate ORM	
Data	Hibernate ORM with Panache	
Messaging	JDBC Driver - PostgreSQL	
Core	JDBC Driver - MariaDB	
Reactive	JDBC Driver - MySQL	
Cloud	JDBC Driver - Microsoft SQL Server	
Observability	JDBC Driver - DB2	
Security	JDBC Driver - H2	
Integration	JDBC Driver - Derby	
Business Automation	Agroal - Database connection pool	
Serialization	Amazon DynamoDB (Preview)	
Miscellaneous	Amazon IAM (Preview)	
Compatibility	Amazon KMS (Preview)	
Alternative languages	Amazon S3 (Preview)	
	Amazon SES (Preview)	
	Amazon SNS (Preview)	
	Amazon SQS (Preview)	
	Blaze-Persistence	
	Cache (Preview)	
	DataStax Apache Cassandra client (Preview)	
	Elasticsearch REST High Level Client (Preview)	
	Elasticsearch REST client (Preview)	
	Flyway	
	Google Cloud Bigquery (Experimental)	
	Hazelcast Client	
	Hibernate Envers (Experimental)	
	Hibernate ORM with Panache and Kotlin (Experimental)	
	Hibernate Reactive (Preview)	
	Hibernate Reactive with Panache (Preview)	
	Hibernate Search + Elasticsearch	

Extension Details: Connect to the PostgreSQL database via JDBC



With Terminal

- open the terminal and put:

rm -rf primeiroprojeto/

mvn io.quarkus:quarkus-maven-plugin:create

```
vitor@vitor-VirtualBox:~$ rm -rf primeiroprojeto/
vitor@vitor-VirtualBox:~$ mvn io.quarkus:quarkus-maven-plugin:create
```

- Put the group ID name:
- Put the artifact ID: primeiro-com-maven
- Project Version: 1.0.0-SNAPSHOT

```
vitor@vitor-VirtualBox: ~
p  dockerfiles
e  maven-wrapper
e
a
e  🍌 quarkus project has been successfully generated in:
E  --> /home/vitor/primeiro-com-maven
U
U [INFO]
U [INFO] =====
U =====
l [INFO] Your new application has been created in /home/vitor/primeiro-com-maven
l [INFO] Navigate into this directory and launch your application with mvn quarkus
e :dev
e [INFO] Your application will be accessible on http://localhost:8080
e [INFO] =====
- =====
- [INFO]
- [INFO] -----
- [INFO] BUILD SUCCESS
- [INFO] -----
2 [INFO] Total time: 05:36 min
- [INFO] Finished at: 2021-03-03T17:45:06-03:00
p [INFO] -----
vitor@vitor-VirtualBox:~$
```