Setup Guide – Time Use App “STAT_time”

Grant Agreement Number: 836897-2018-AT-INNOV

Statistics Austria

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For further information please contact:

Software development:
Leonhard Fürst
Guglgasse 13
1110 Vienna
Tel.: +43 1 711 28 - 7871
leonhard.fuerst@statistik.gv.at

Friedrich Csaicsich
Guglgasse 13
1110 Vienna
Tel.: +43 1 711 28 - 7182
friedrich.csaicsich@statistik.gv.at

Setup Guide - STAT_time

For further assistence please contact: APPS@statistik.gv.at or Leonhard.Fuerst@statistik.gv.at

For future updates, this guide will be part of the source code (README.md) and updated along with the source code : https://github.com/statistikat/STAT_time/blob/master/README.md

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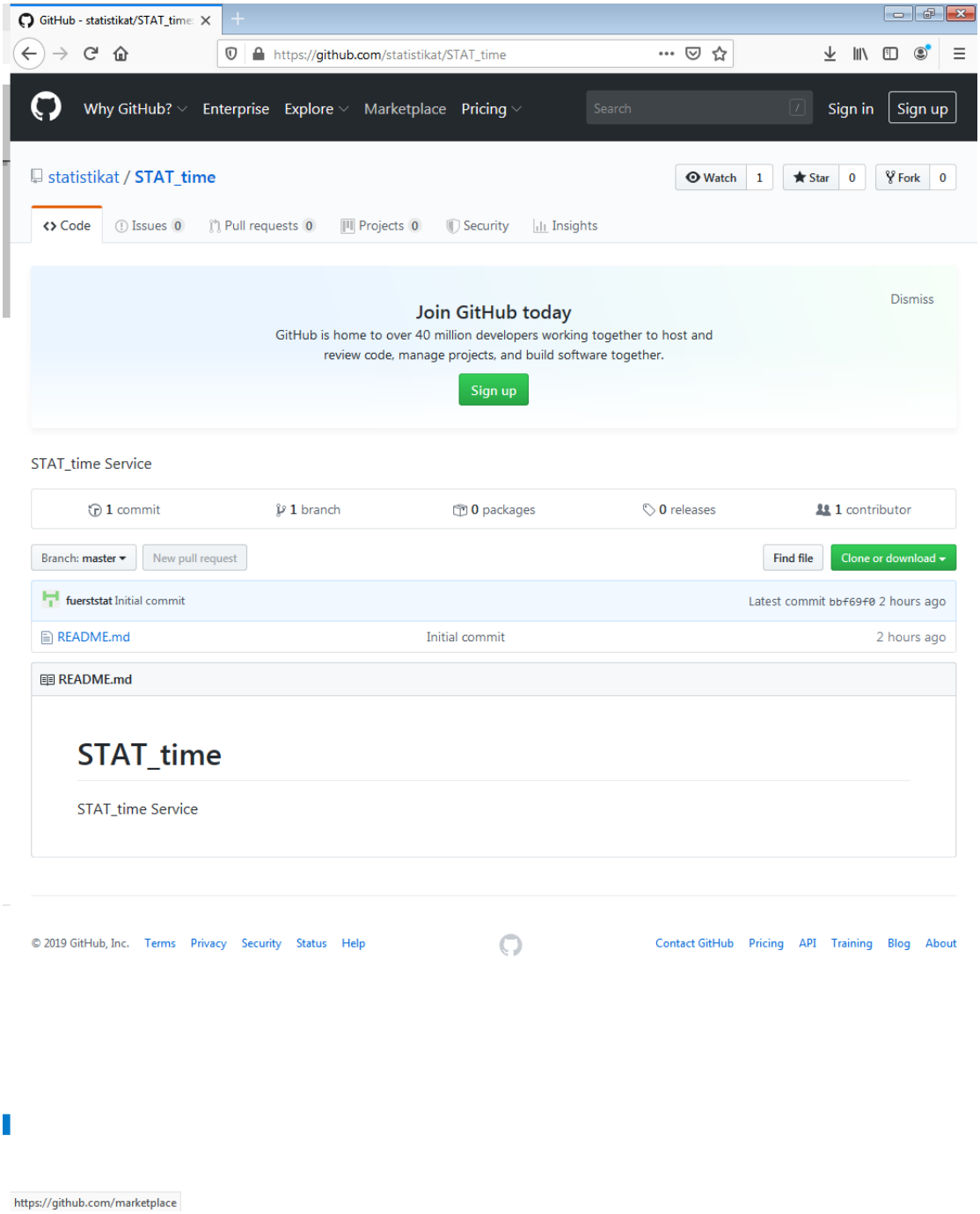
OS (Ubuntu) - optional

- Download Ubuntu 18.04 LTS
  - http://releases.ubuntu.com/18.04.3/ubuntu-18.04.3-desktop-amd64.iso?_ga=2.152137019.32059920.1575287124-1217906052.1575287124
- Install Ubuntu 18.04 LTS
  - https://help.ubuntu.com/lts/installation-guide/amd64/index.html

---

Get the sources

- Install GIT in Ubuntu
  - https://www.liquidweb.com/kb/install-git-ubuntu-16-04-lts/
- Download/Checkout soruces
  - Go to https://github.com/statistikat/STAT_time

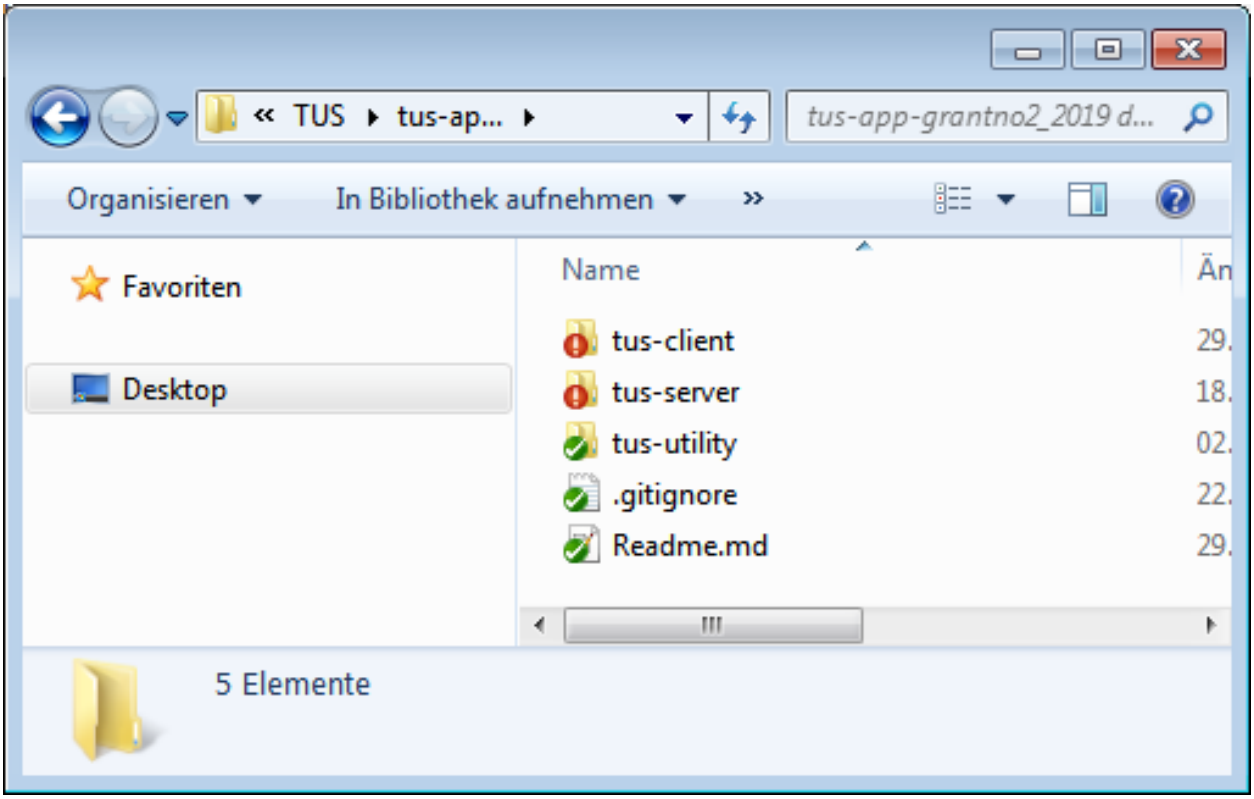


    - Checkout source code with git using the terminal/bash

```
git clone https://github.com/statistikat/STAT_time.git
```

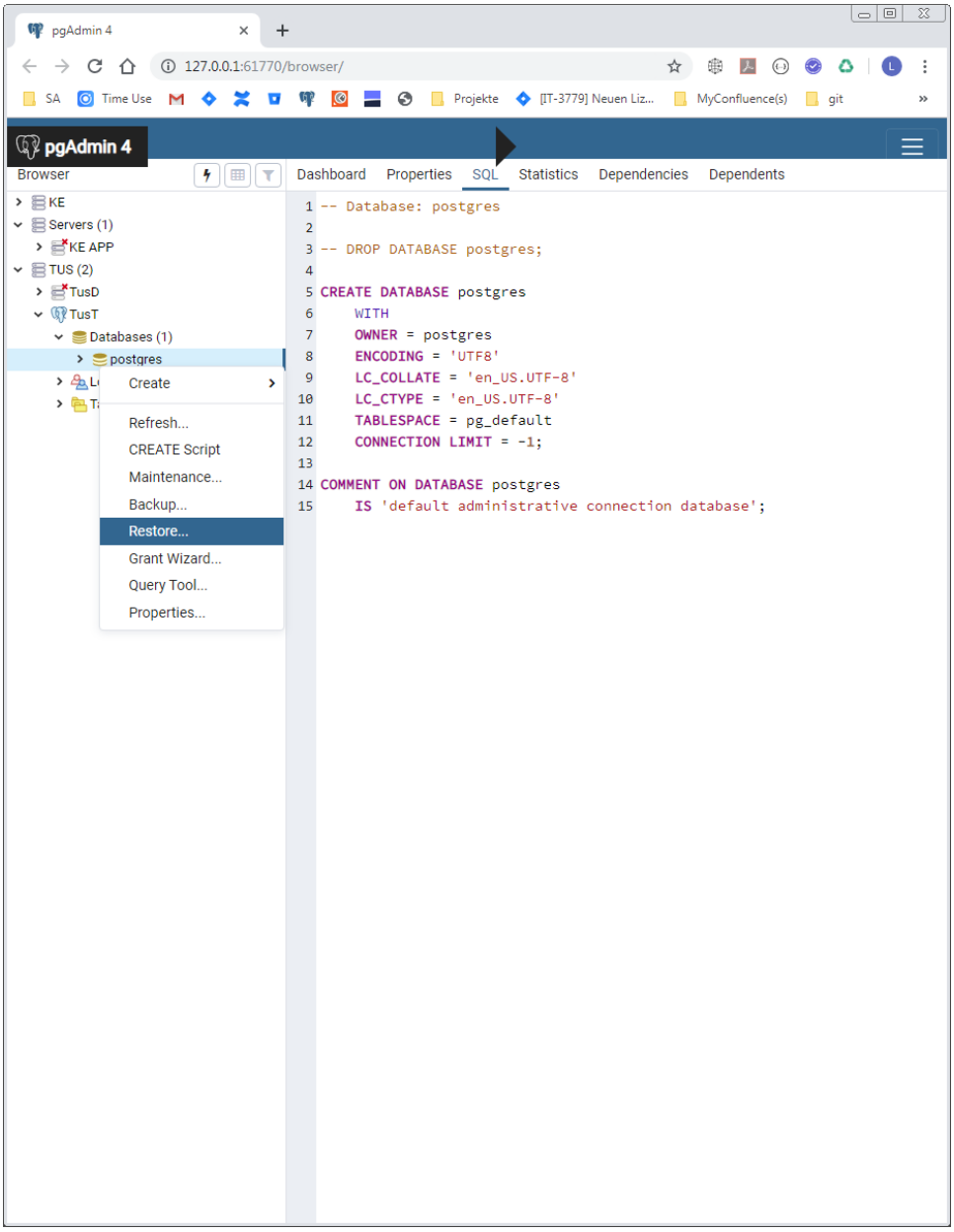
        - The source code will be saved at your current locataion in file system
    - Download source code to file system
        - Click "Clone or download" and "Download ZIP"
        - Save to file system
- Enter the directory.

```
cd STAT_time
```

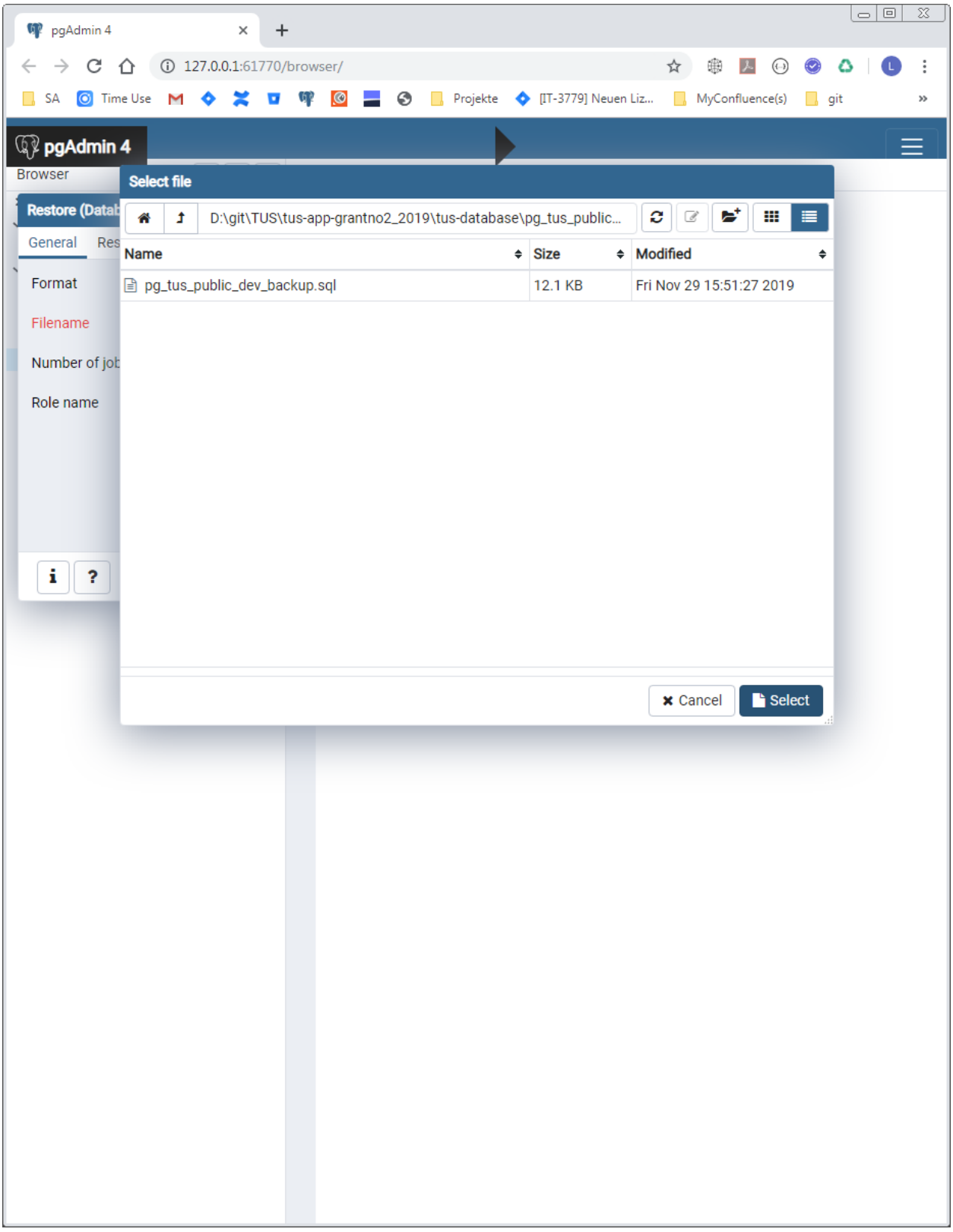


Database

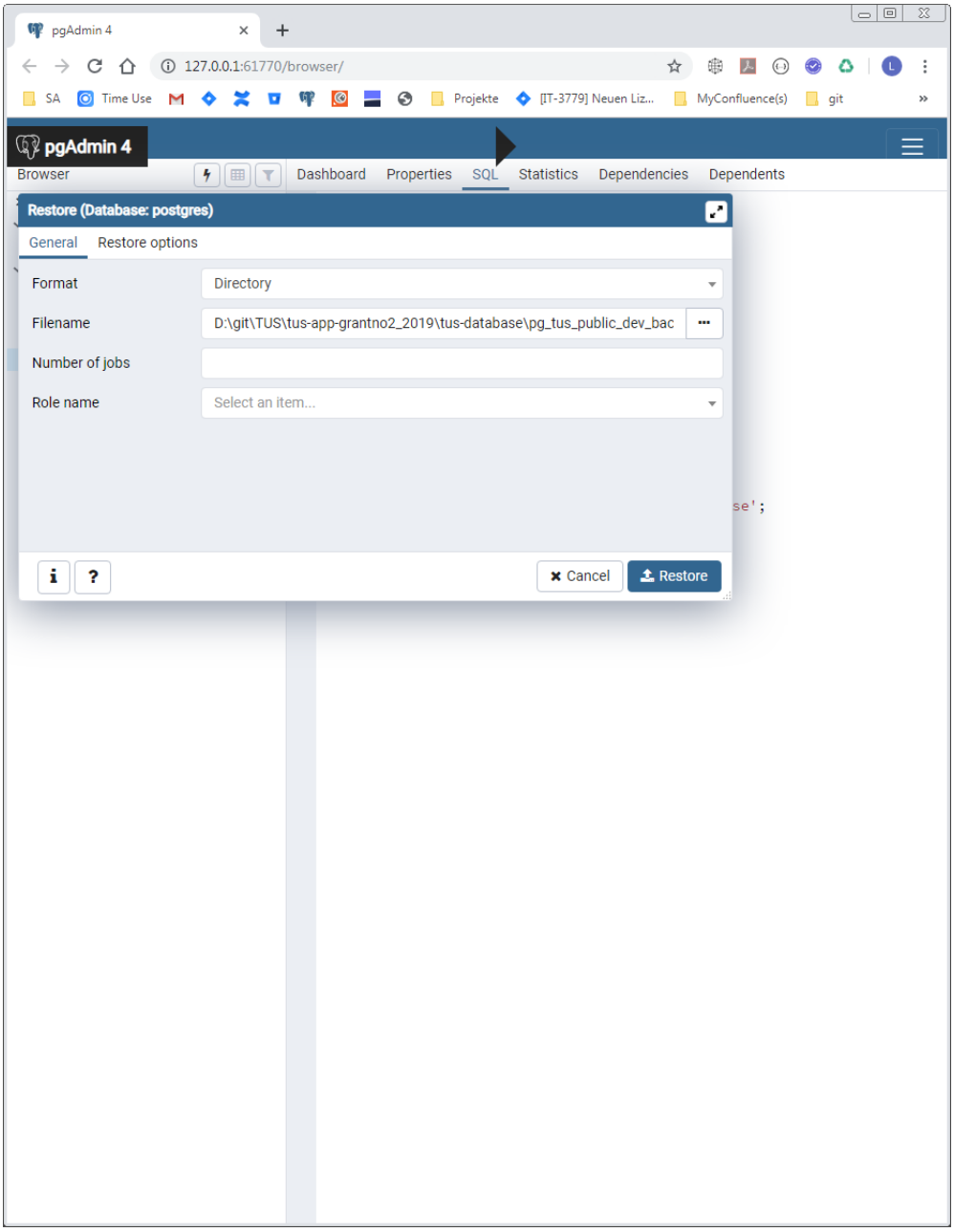
- Install postgres on Ubuntu (user: postgres, password:postgres, port:5432)
    - https://www.howtoforge.com/tutorial/how-to-install-postgresql-and-pgadmin4-on-ubuntu-1804-lts/
- Import database, schema, tables and data using pgAdmin4
    - https://www.pgadmin.org/docs/pgadmin4/development/restore_dialog.html



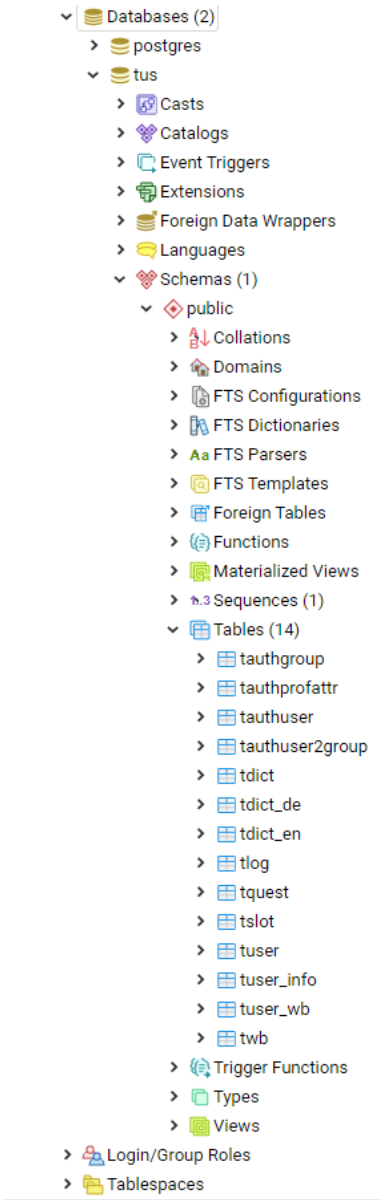
- Chose the file from "/tus-database" folder "pg_tus_public_dev_backup.sql"



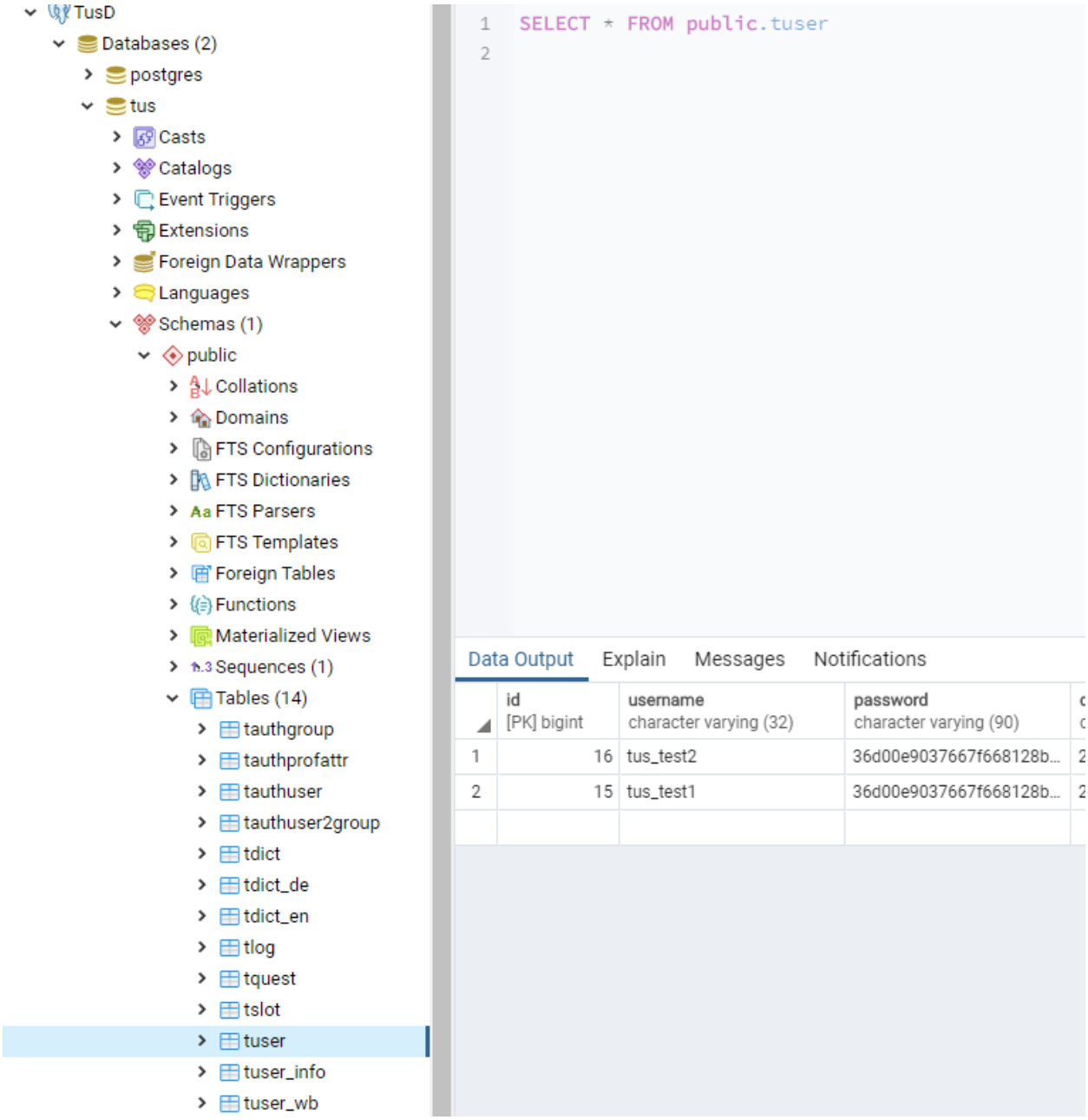
- Click Select.


pgAdmin 4
127.0.0.1:61770/browser/
SA
Time Use
Projekte
[IT-3779] Neuen Liz...
MyConfluence(s)
git
pgAdmin 4
Browser
Dashboard
Properties
SQL
Statistics
Dependencies
Dependents
Restore (Database: postgres)
General
Restore options
Format
Directory
Filename
D:\git\TUS\tus-app-grantno2_2019\tus-database\pg_tus_public_dev_bac
Number of jobs
Role name
Select an item...
Cancel
Restore

- Click Restore.



- Tables were created and data loaded.



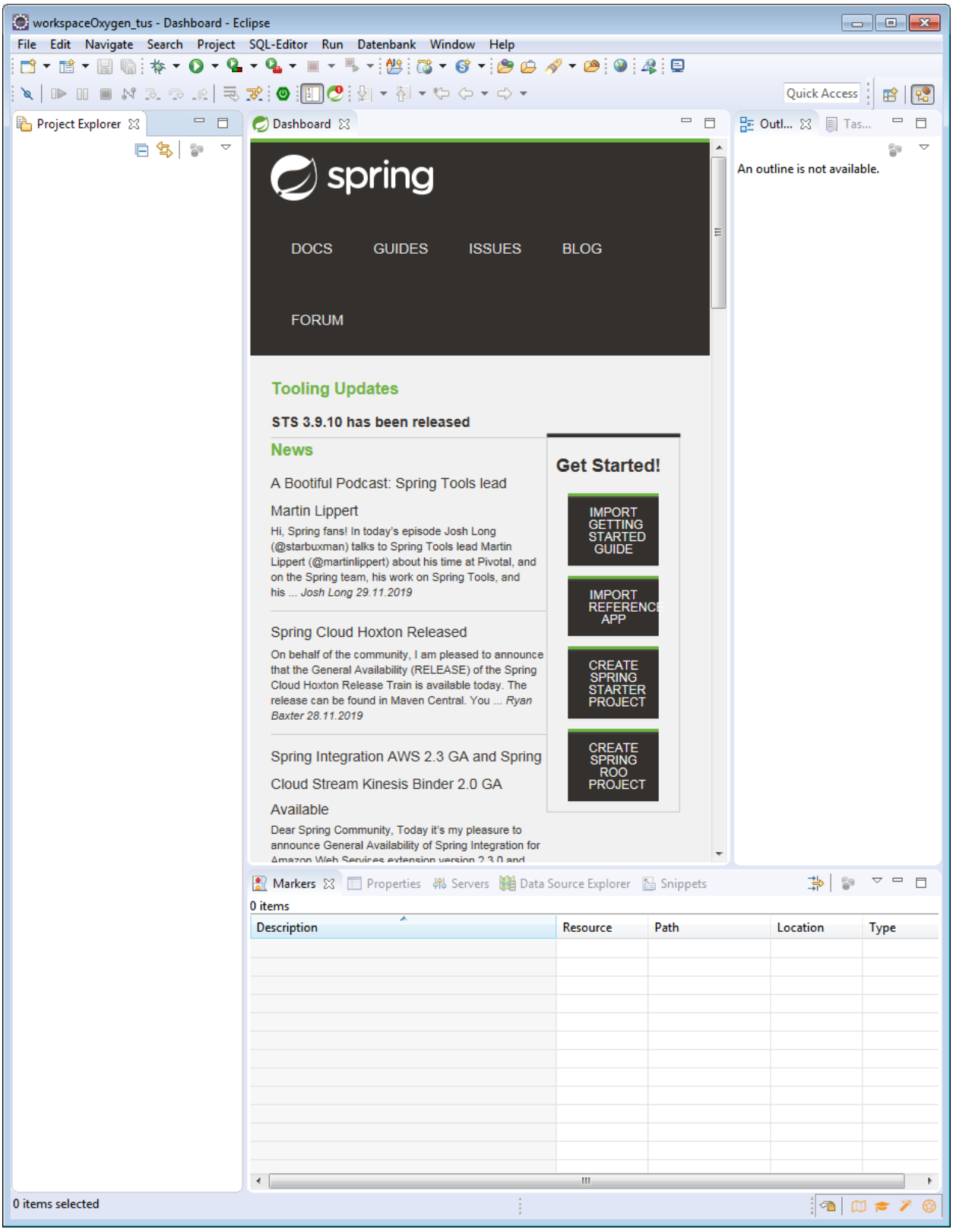
- Database setup complete.

Backend

IDE Setup

- Install openJDK 1.8
  - https://www.digitalocean.com/community/tutorials/how-to-install-java-with-apt-on-ubuntu-18-04
- Eclipse Oxygen
  - Download and install
    - https://websiteforstudents.com/how-to-install-eclipse-oxygen-ide-on-ubuntu-167-04-17-10-18-04/
  - Spring Tool Suite
    - https://www.codejava.net/ides/eclipse/install-spring-tool-suite-for-existing-eclipse-ide
  - Install Maven to Eclipse (Plugin)
    - http://roufid.com/how-to-install-maven-on-eclipse-ide/

Open backend for development


workspaceOxygen_tus - Dashboard - Eclipse
File Edit Navigate Search Project SQL-Editor Run Datenbank Window Help
Quick Access
Project Explorer
Dashboard
Outl...
Tas...
An outline is not available.
spring
DOCS GUIDES ISSUES BLOG
FORUM
Tooling Updates
STS 3.9.10 has been released
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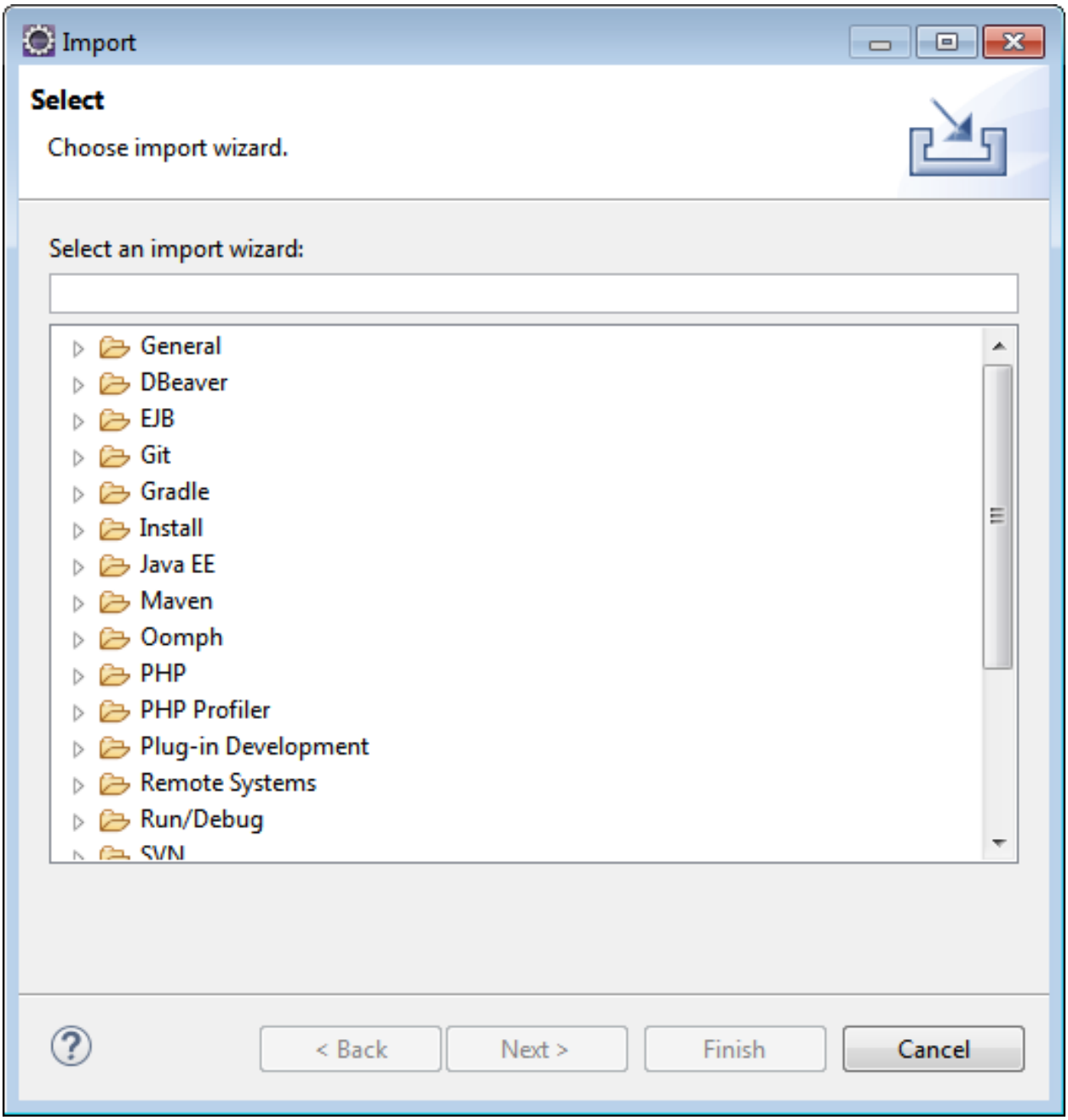
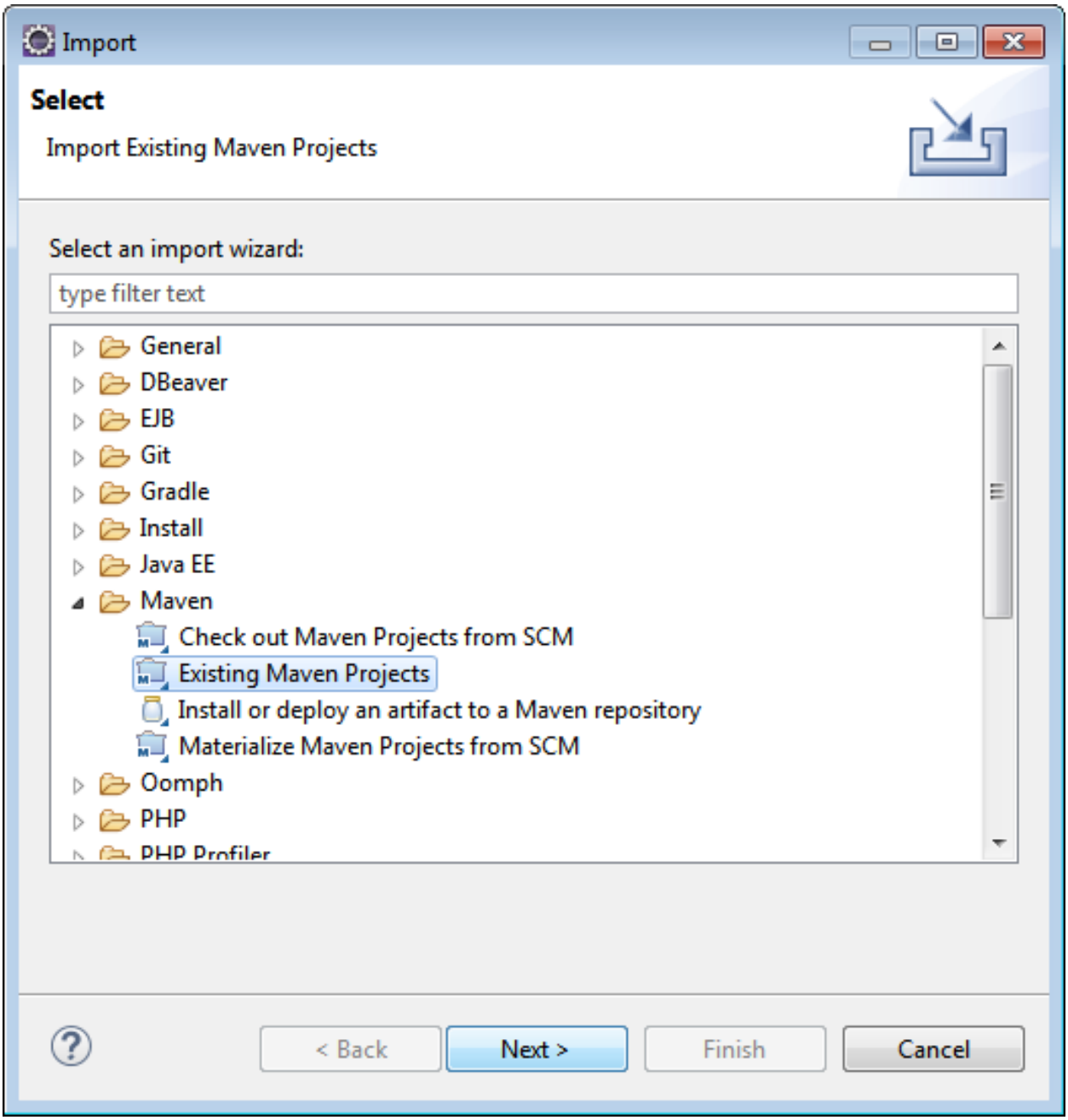
IMPORT GETTING STARTED GUIDE
IMPORT REFERENCE APP
CREATE SPRING STARTER PROJECT
CREATE SPRING ROO PROJECT
Markers Properties Servers Data Source Explorer Snippets
0 items
Description Resource Path Location Type
0 items selected

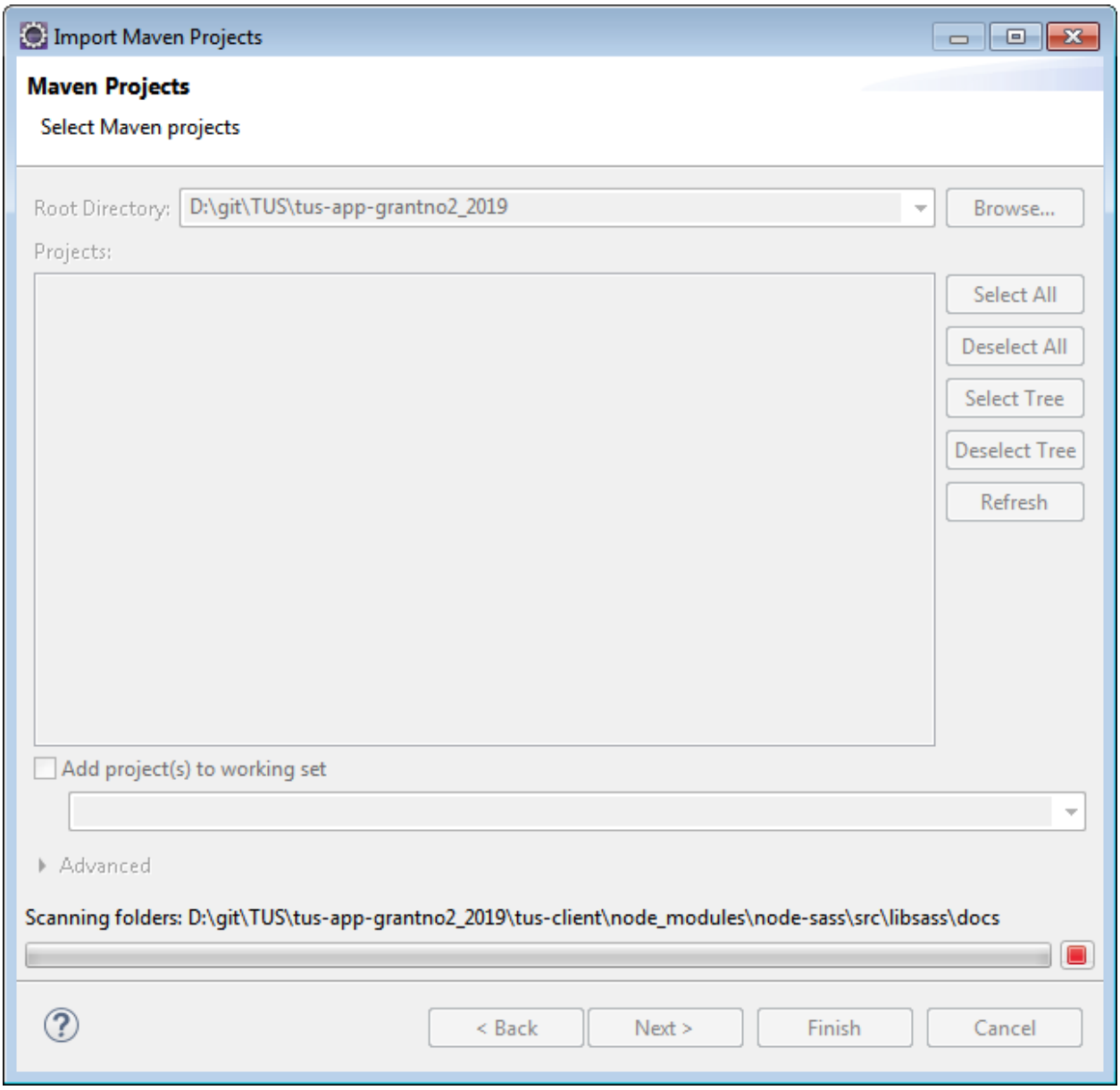
File > Import

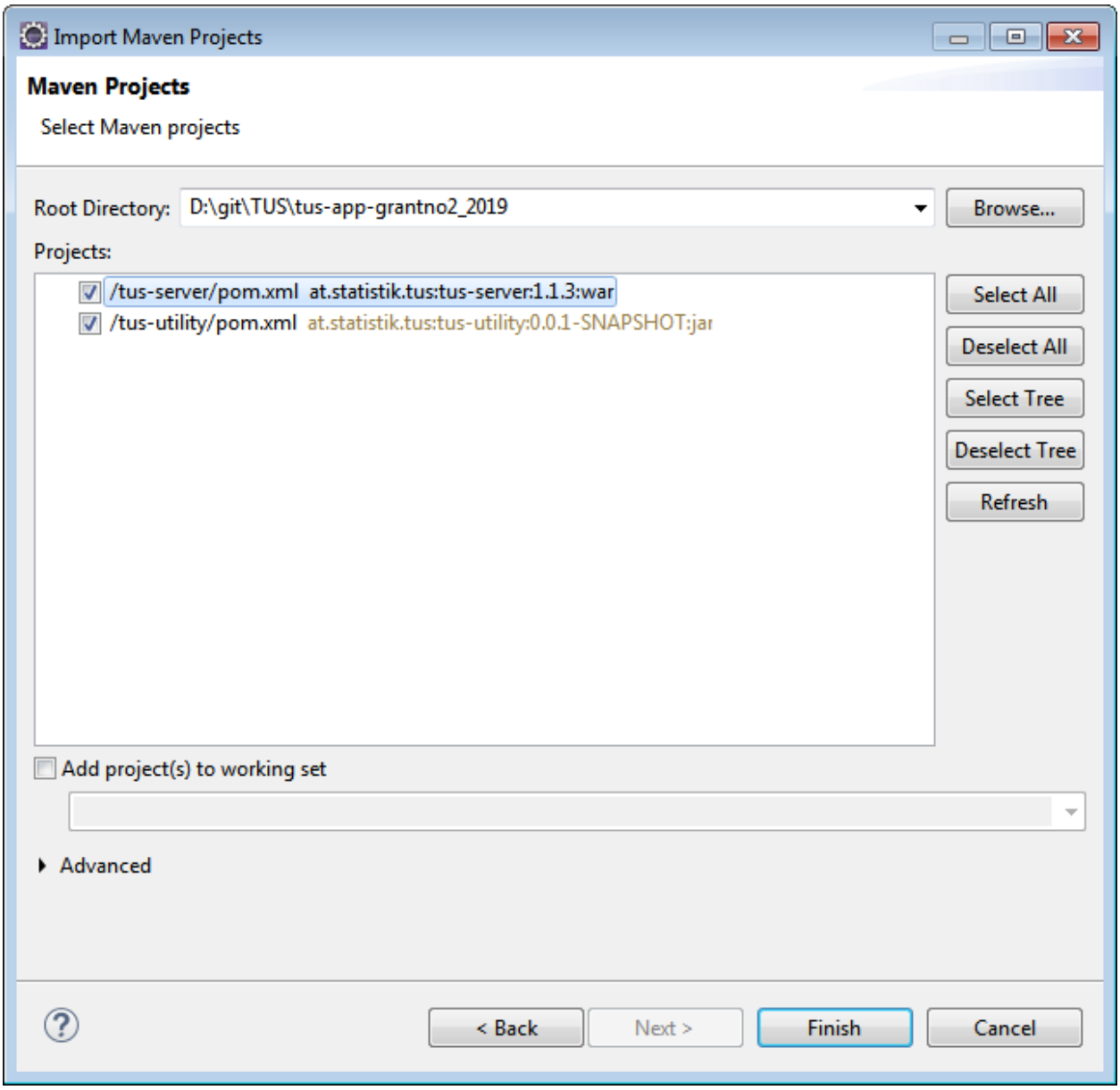


Maven > Existing Maven Projects

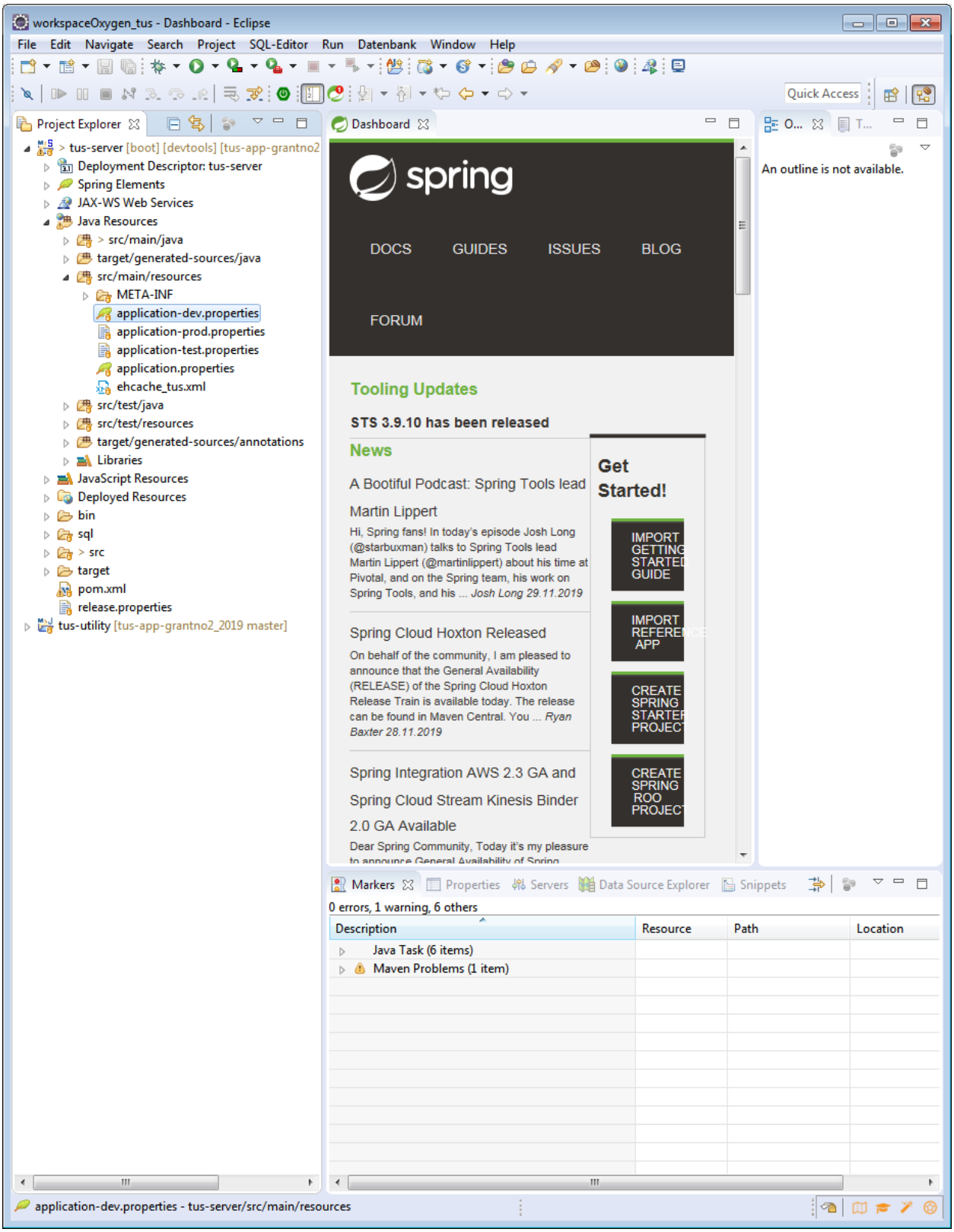


Browse > choose "Your checkout or unzip location"


Import Maven Projects
Maven Projects
Select Maven projects
Root Directory:
D:\git\TUS\tus-app-grantno2_2019
Browse...
Projects:
Select All
Deselect All
Select Tree
Deselect Tree
Refresh
Add project(s) to working set
Advanced
Scanning folders: D:\git\TUS\tus-app-grantno2_2019\tus-client\node_modules\node-sass\src\libsass\docs
< Back
Next >
Finish
Cancel


Import Maven Projects
Maven Projects
Select Maven projects
Root Directory:
D:\git\TUS\tus-app-grantno2_2019
Browse...
Projects:
/tus-server/pom.xml at.statistik.tus:tus-server:1.1.3:war
/tus-utility/pom.xml at.statistik.tus:tus-utility:0.0.1-SNAPSHOT:jar
Select All
Deselect All
Select Tree
Deselect Tree
Refresh
Add project(s) to working set
Advanced
< Back
Next >
Finish
Cancel

Finish


workspaceOxygen_tus - Dashboard - Eclipse
File Edit Navigate Search Project SQL-Editor Run Datenbank Window Help
Quick Access
Project Explorer
tus-server [boot] [devtools] [tus-app-grantno2
Deployment Descriptor: tus-server
Spring Elements
JAX-WS Web Services
Java Resources
src/main/java
target/generated-sources/java
src/main/resources
META-INF
application-dev.properties
application-prod.properties
application-test.properties
application.properties
ehcache_tus.xml
src/test/java
src/test/resources
target/generated-sources/annotations
Libraries
JavaScript Resources
Deployed Resources
bin
sql
src
target
pom.xml
release.properties
tus-utility [tus-app-grantno2_2019 master]
Dashboard
spring
DOCS GUIDES ISSUES BLOG
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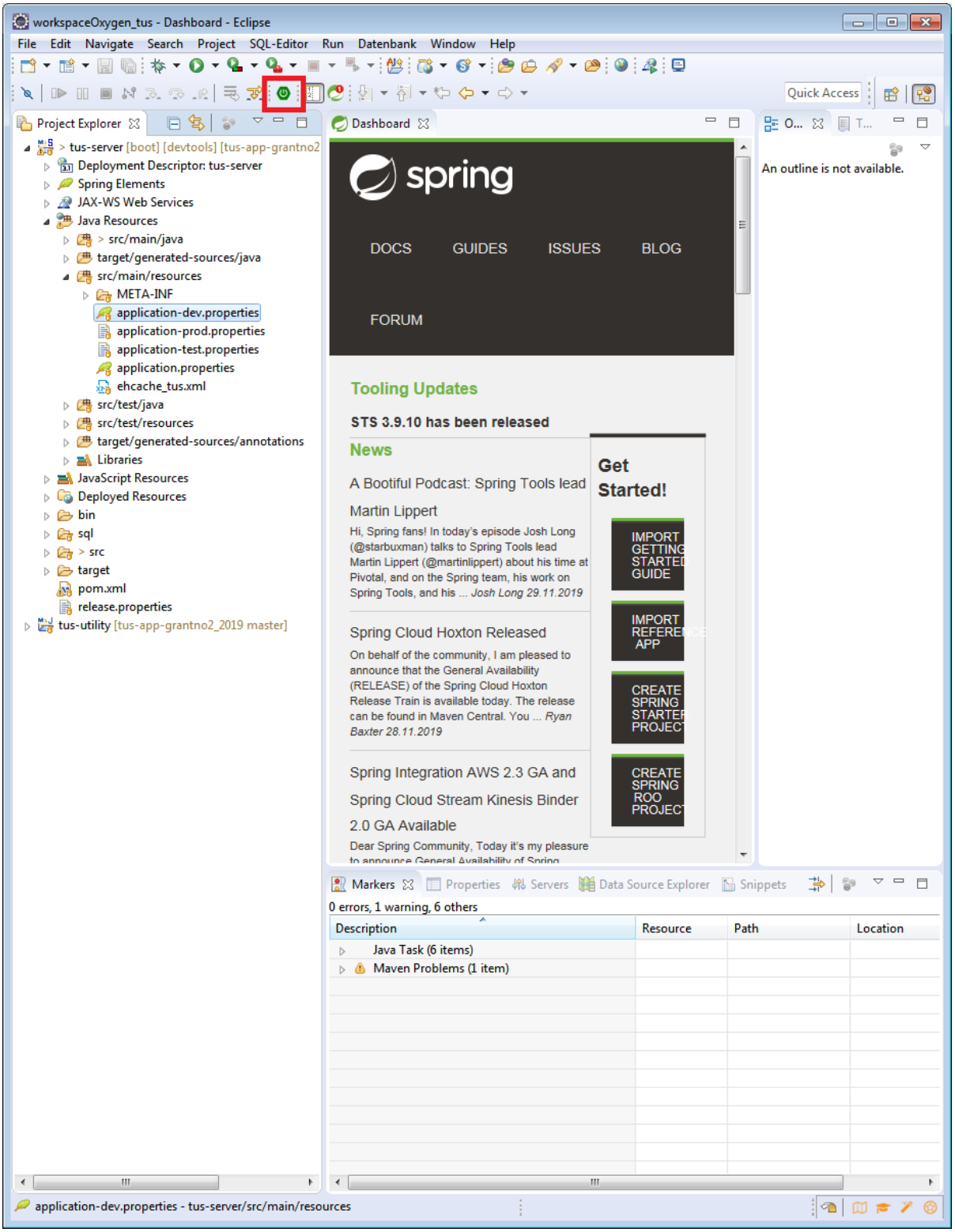
CREATE SPRING ROO PROJECT
An outline is not available.
Markers Properties Servers Data Source Explorer Snippets
0 errors, 1 warning, 6 others
Description Resource Path Location
Java Task (6 items)
Maven Problems (1 item)
application-dev.properties - tus-server/src/main/resources

Tomcat Setup

- ~~Standalone setup in Ubuntu - optional~~
  - ~~https://linuxize.com/post/how-to-install-tomcat-9-on-ubuntu-18-04/~~
- ~~Use existing Tomcat (when running on localhost:8080) - optional~~
  - ~~paste ".war" file in the "webapps" folder~~
  - ~~Start tomcat~~

Spring Boot contains tomcat for start from Eclipse IDE

- Open the Sprint "Boot Dashboard"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application-prod.properties
application-test.properties
application.properties
ehcache_tus.xml
src/test/java
src/test/resources
target/generated-sources/annotations
Libraries
JavaScript Resources
Deployed Resources
bin
sql
src
target
pom.xml
release.properties
tus-utility [tus-app-grantno2_2019 master]
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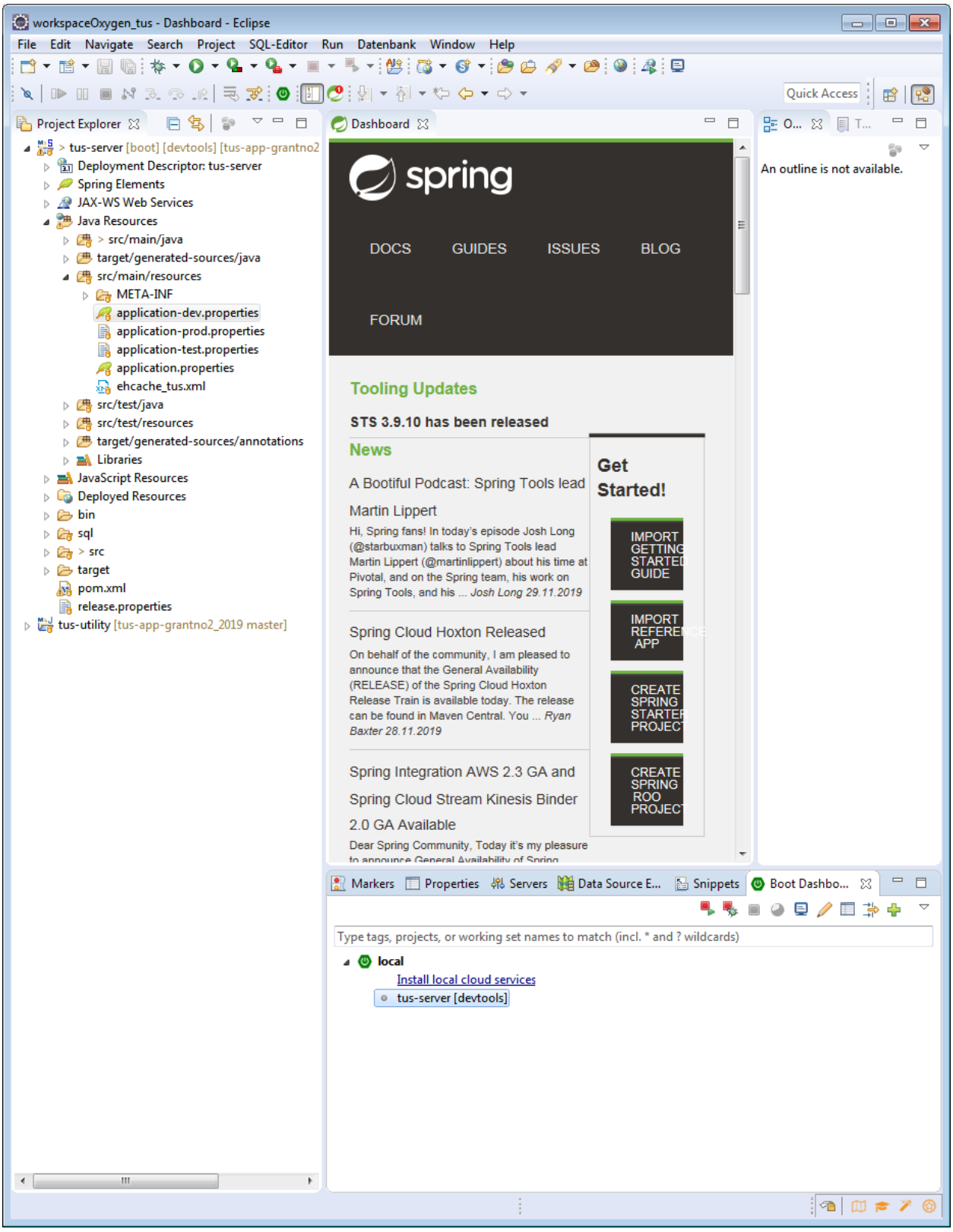
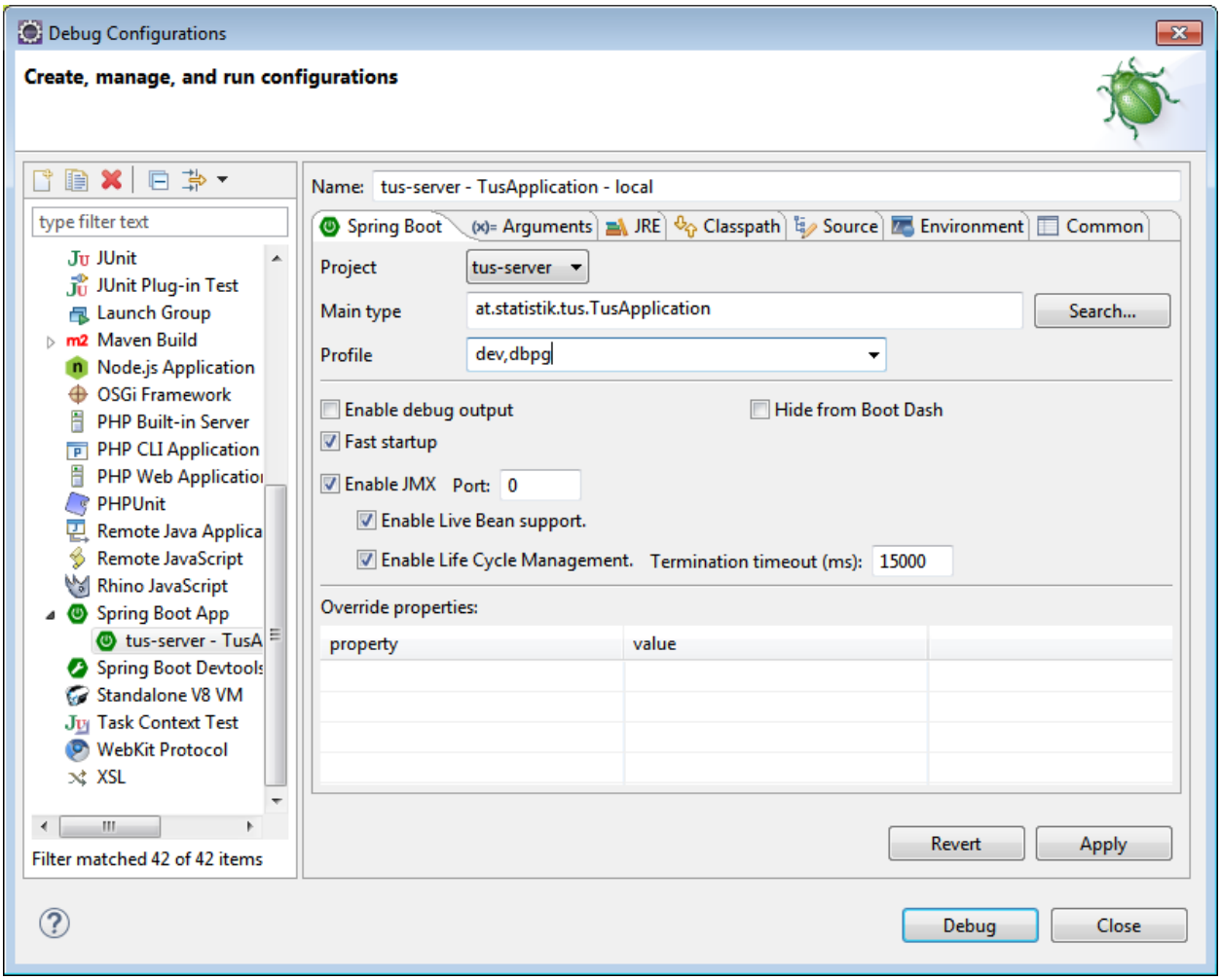


- Right click "tus-server"> Open Config



- Fill filed like in the screenshot
    - Name: "tus-server - TusApplication - local"
    - Main Type: "at.statistik.tus.TusApplication"
    - Profile: "dev, dbpg"

Apply > Debug

Double click the console tab "Console"

See on the bottom of the console:

"Started TusApplication in 9.497 seconds (JVM running for 10.333)"

Backend is nor successfully running!

Tomcat starts at default port 8080 (see “application.properties”)

- In "Boot Dashboard" right click "tus-server" > "(Re)start"

Frontend

IDE Setup

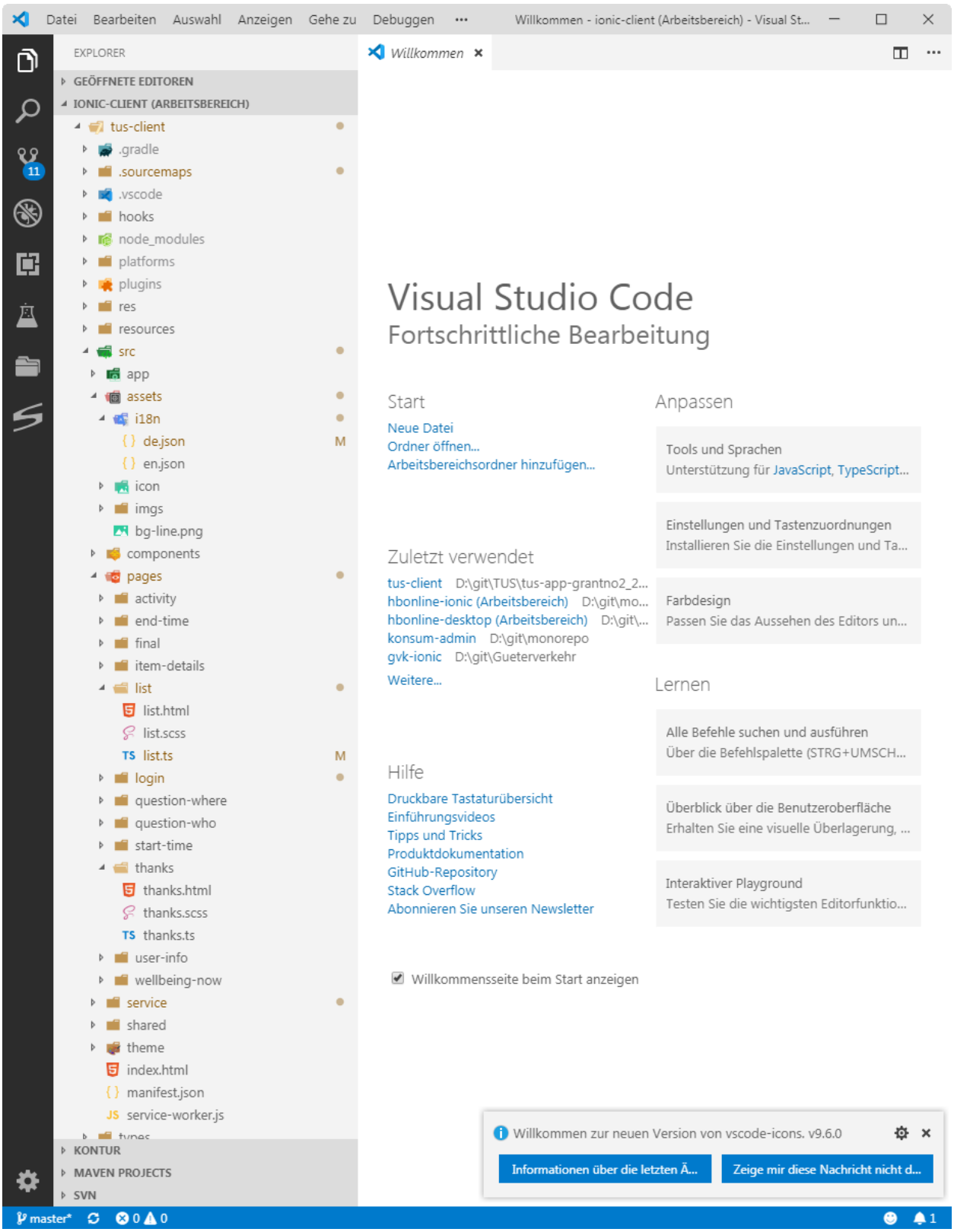
- Visual Studio Code
  - Download and installation
    - https://linuxize.com/post/how-to-install-visual-studio-code-on-ubuntu-18-04/

- Bash (start Terminal (B))
  - NodeJS 12.13.1 LTS - npm
    - Guide for Ubuntu
      - https://tecadmin.net/install-latest-nodejs-npm-on-ubuntu/
- GIT in Ubuntu Bash
  - https://www.liquidweb.com/kb/install-git-ubuntu-16-04-lts/

The app is per default configurated, to search for the backend at “localhost:8080” (sie tomcat configuration above).

Open App for Development from workspace file:

- Enter the tus-client folder > Double click "ionic-client.code-workspace"


Datei Bearbeiten Auswahl Anzeigen Gehe zu Debuggen ••• Willkommen - ionic-client (Arbeitsbereich) - Visual St...
EXPLORER
Willkommen
GEÖFFNETE EDITOREN
IONIC-CLIENT (ARBEITSBEREICH)
tus-client
.gradle
.sourcemaps
.vscode
hooks
node_modules
platforms
plugins
res
resources
src
app
assets
i18n
de.json M
en.json
icon
imgs
bg-line.png
components
pages
activity
end-time
final
item-details
list
list.html
list.scss
list.ts M
login
question-where
question-who
start-time
thanks
thanks.html
thanks.scss
thanks.ts
user-info
wellbeing-now
service
shared
theme
index.html
manifest.json
service-worker.js
KONTUR
MAVEN PROJECTS
SVN
Visual Studio Code
Fortschrittliche Bearbeitung
Start
Neue Datei
Ordner öffnen...
Arbeitsbereichsordner hinzufügen...
Zuletzt verwendet
tus-client D:\git\TUS\tus-app-grantno2_2...
hbonline-ionic (Arbeitsbereich) D:\git\mo...
hbonline-desktop (Arbeitsbereich) D:\git\...
konsum-admin D:\git\monorepo
gvk-ionic D:\git\Gueterverkehr
Weitere...
Hilfe
Druckbare Tastaturübersicht
Einführungsvideos
Tipps und Tricks
Produktdokumentation
GitHub-Repository
Stack Overflow
Abonnieren Sie unseren Newsletter
Anpassen
Tools und Sprachen
Unterstützung für JavaScript, TypeScript...
Einstellungen und Tastenzuordnungen
Installieren Sie die Einstellungen und Ta...
Farbdesign
Passen Sie das Aussehen des Editors un...
Lernen
Alle Befehle suchen und ausführen
Über die Befehlspalette (STRG+UMSCH...
Überblick über die Benutzeroberfläche
Erhalten Sie eine visuelle Überlagerung, ...
Interaktiver Playground
Testen Sie die wichtigsten Editorfunktio...
Willkommensseite beim Start anzeigen
Willkommen zur neuen Version von vscode-icons. v9.6.0
Informationen über die letzten Ä...
Zeige mir diese Nachricht nicht d...
master*
0 0
1

Install Ionic and Codova

- Ionic

```
npm install -g ionic
```

- Cordova

```
npm install -g cordova@8.0.0
```

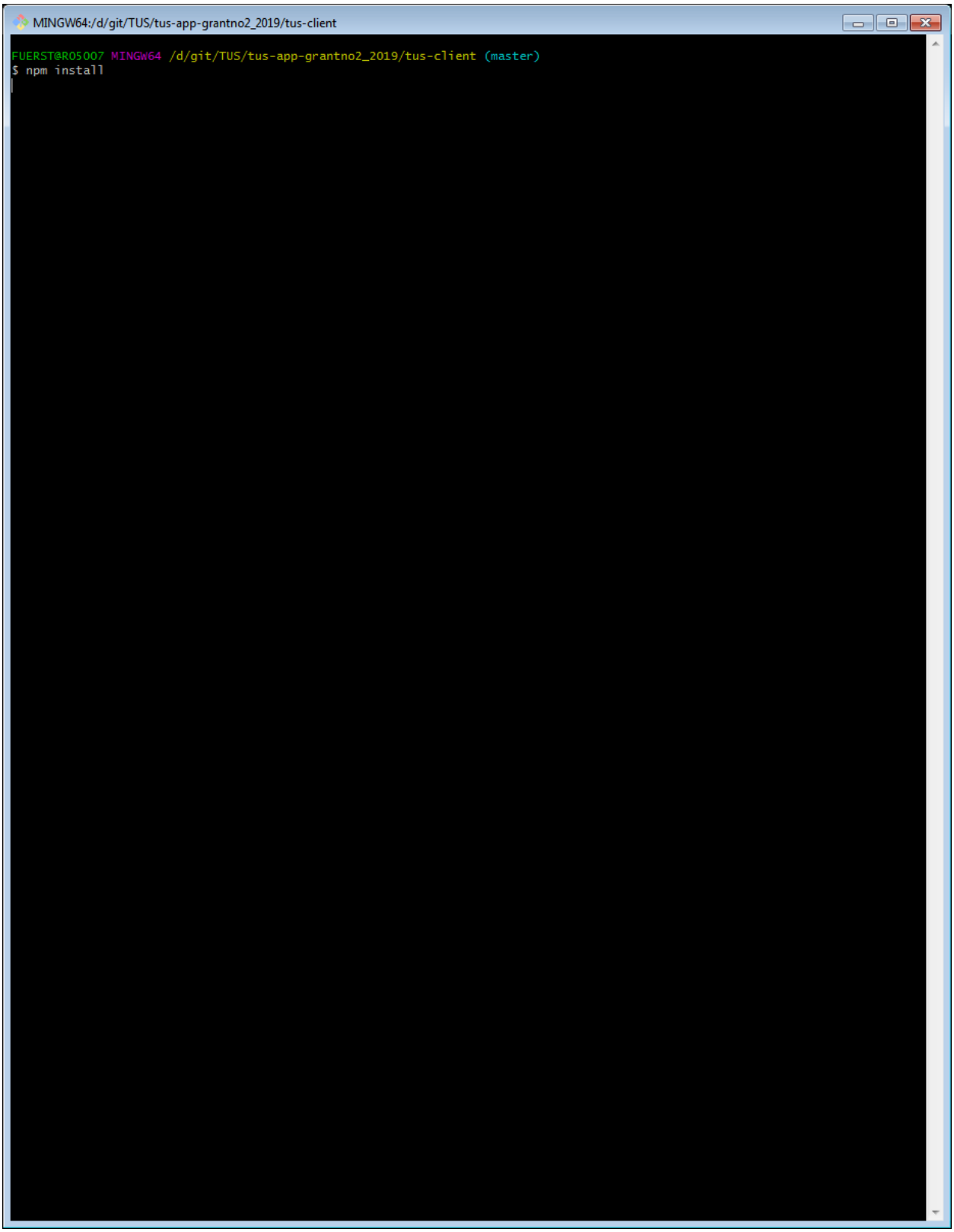
- Angular

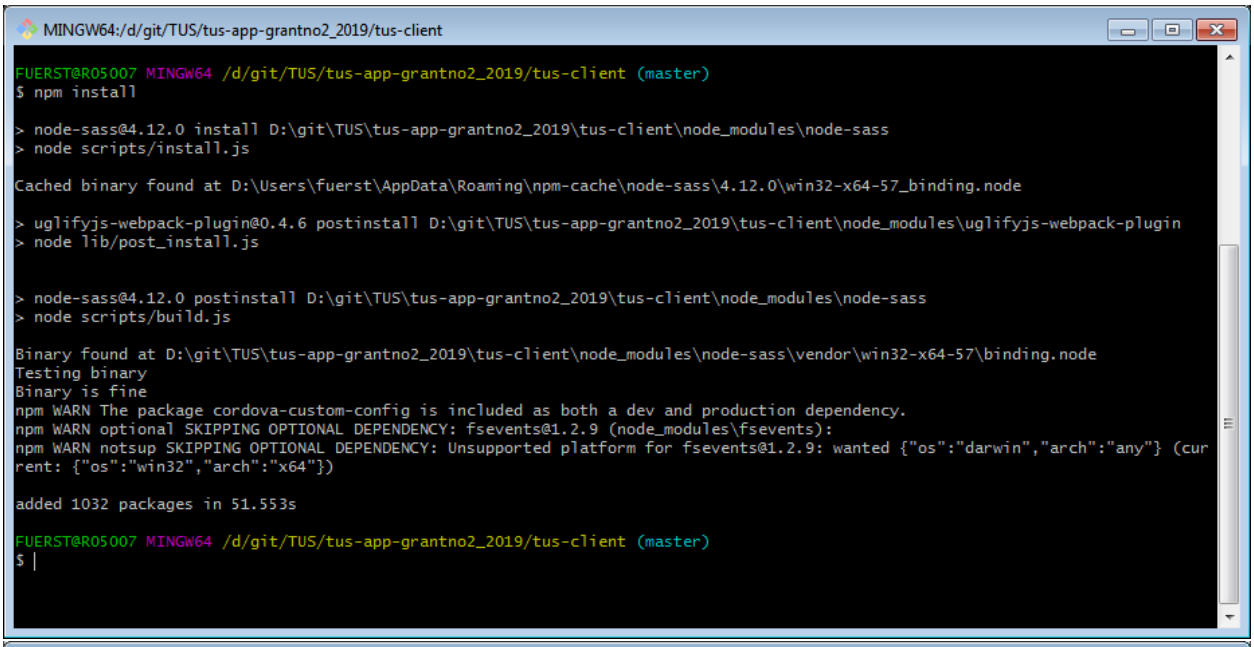
```
npm install -g angular@4.4.4
```

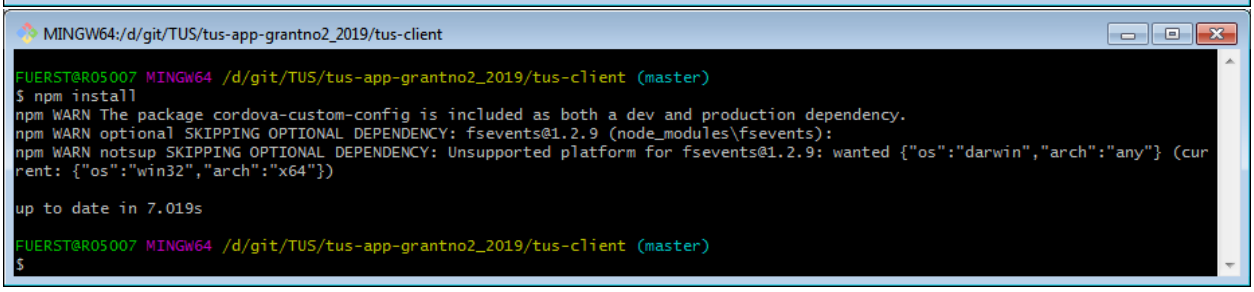
Run app from terminal/bash

- Install libraries/dependencies

```
npm install
```


MINGW64:/d/git/TUS/tus-app-grantno2_2019/tus-client
FUERST@R05007 MINGW64 /d/git/TUS/tus-app-grantno2_2019/tus-client (master)
$ npm install



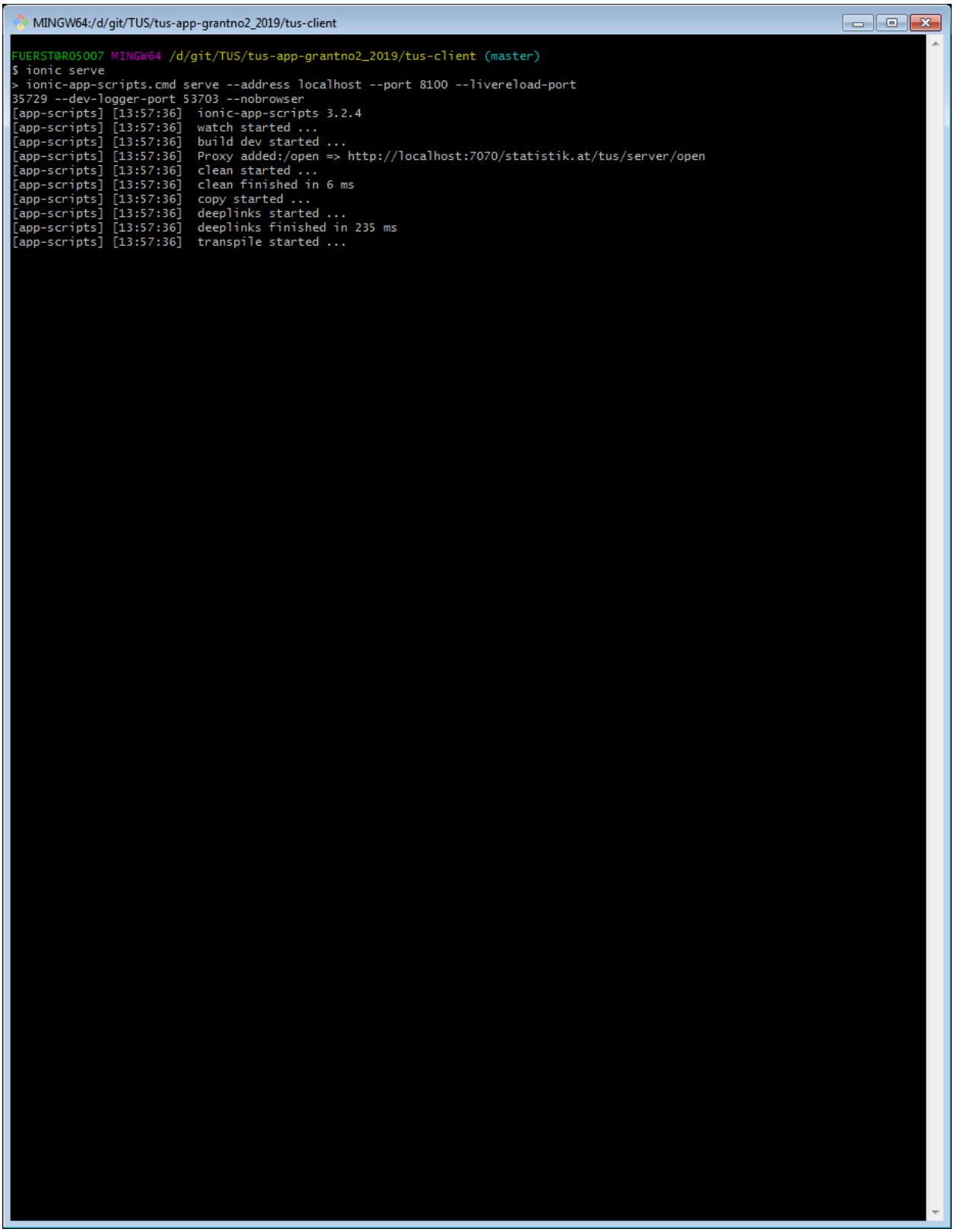


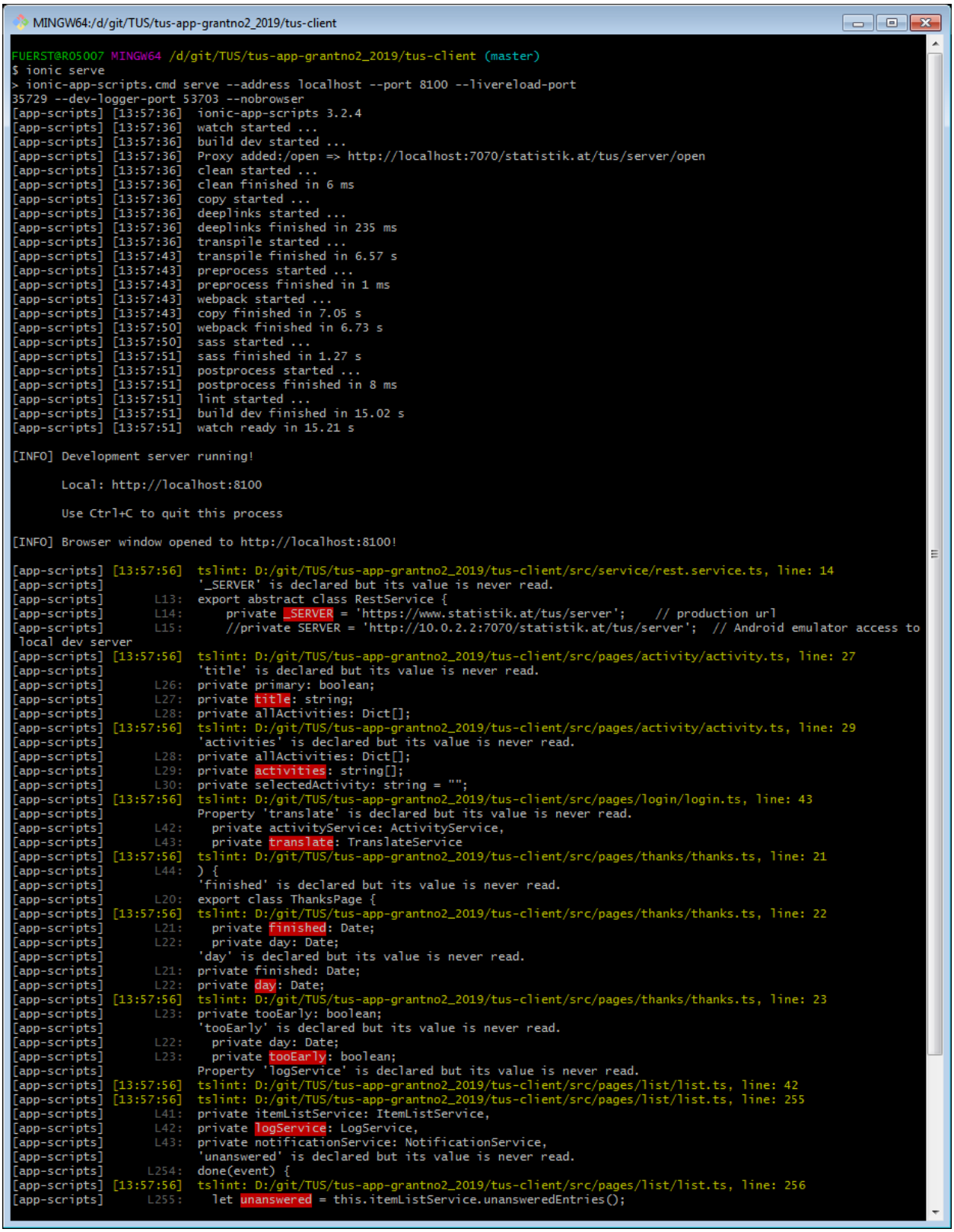
Warnings can be ignored.

- Run the app in your local browser:

```
ionic serve
```

Warnings can be ignored.


MINGW64:/d/git/TUS/tus-app-grantno2_2019/tus-client
FUERST@R05007 MINGW64 /d/git/TUS/tus-app-grantno2_2019/tus-client (master)
$ ionic serve
> ionic-app-scripts.cmd serve --address localhost --port 8100 --livereload-port
35729 --dev-logger-port 53703 --nobrowser
[app-scripts] [13:57:36] ionic-app-scripts 3.2.4
[app-scripts] [13:57:36] watch started ...
[app-scripts] [13:57:36] build dev started ...
[app-scripts] [13:57:36] Proxy added:/open => http://localhost:7070/statistik.at/tus/server/open
[app-scripts] [13:57:36] clean started ...
[app-scripts] [13:57:36] clean finished in 6 ms
[app-scripts] [13:57:36] copy started ...
[app-scripts] [13:57:36] deeplinks started ...
[app-scripts] [13:57:36] deeplinks finished in 235 ms
[app-scripts] [13:57:36] transpile started ...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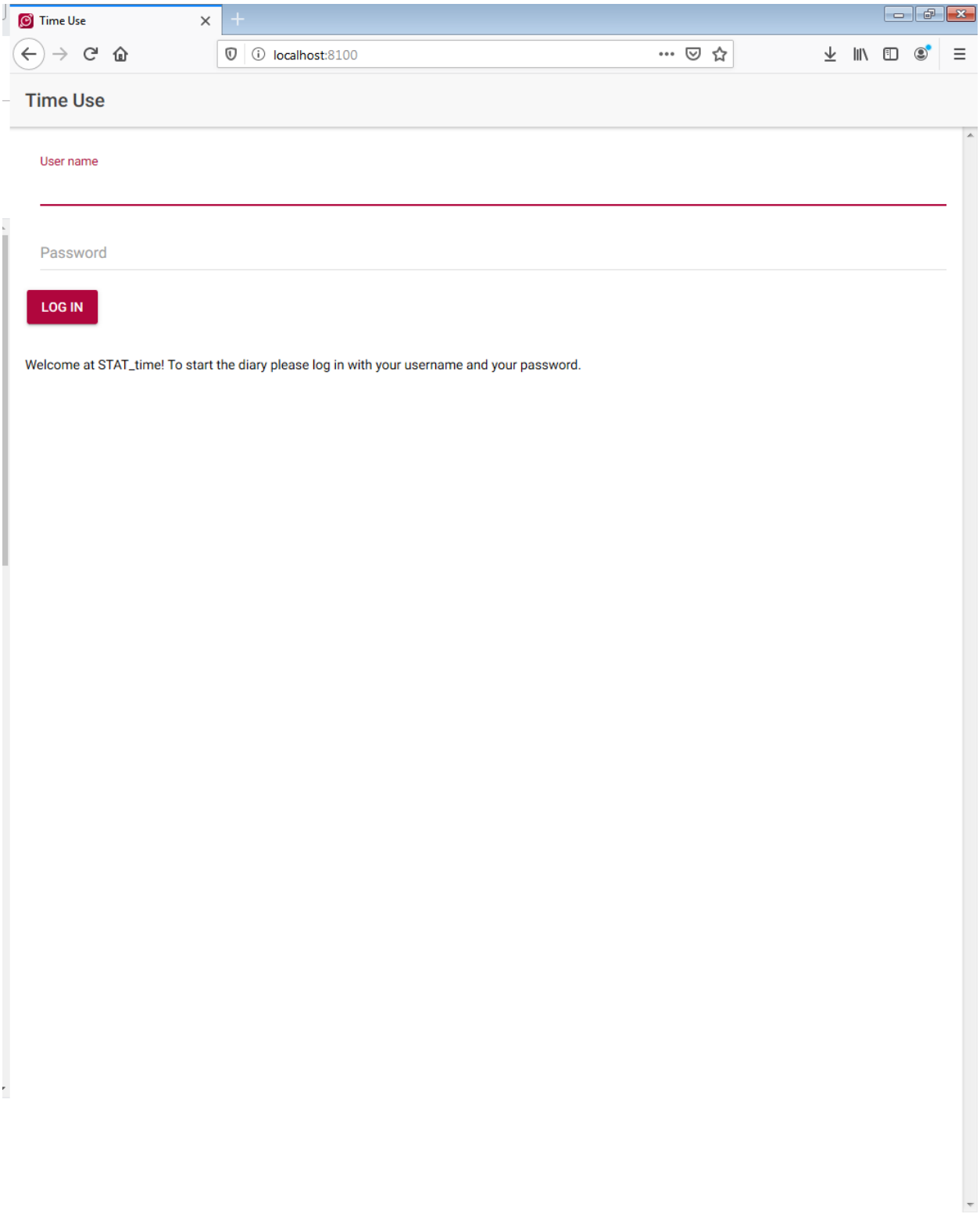
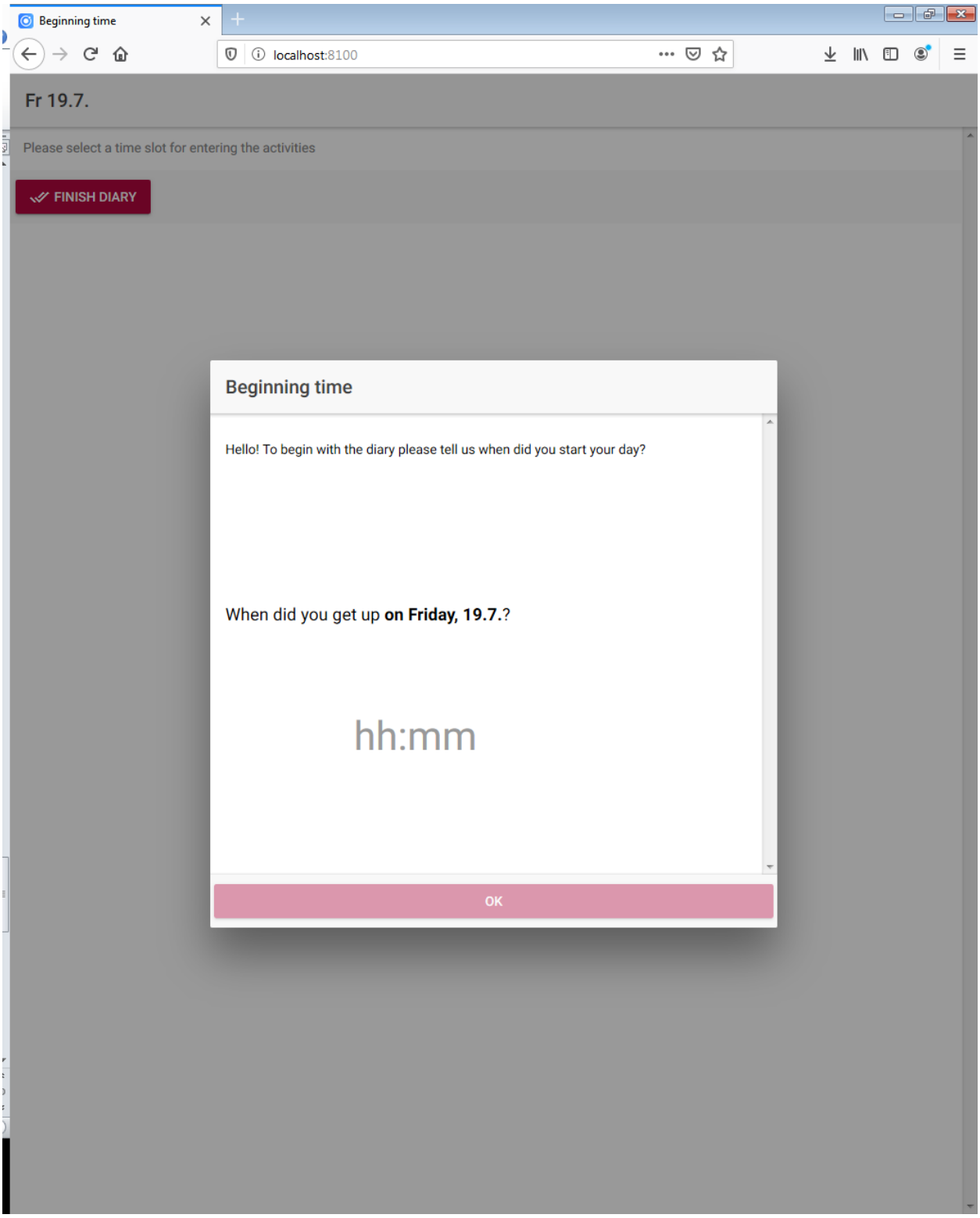
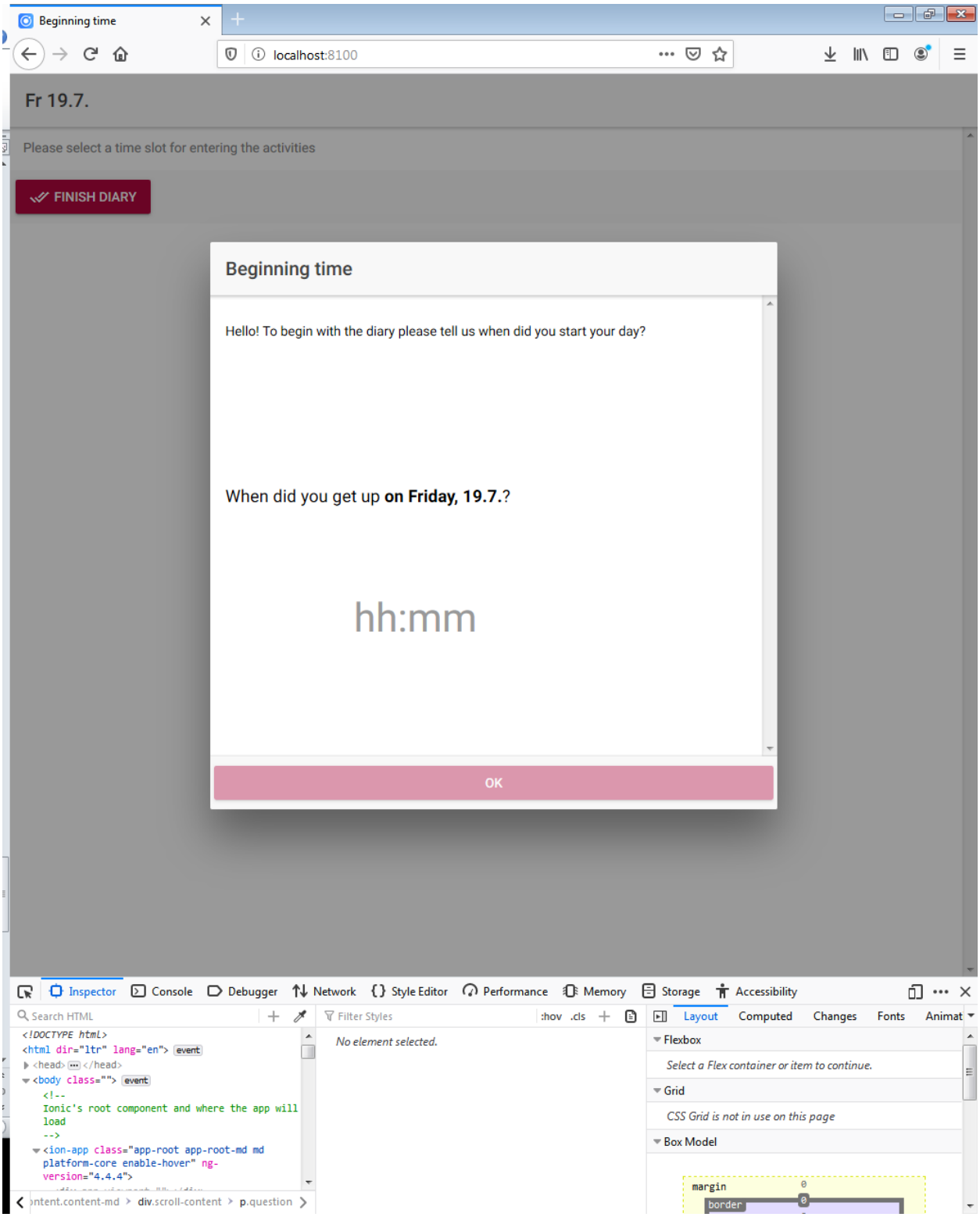
[app-scripts] [13:57:36] deeplinks finished in 235 ms
[app-scripts] [13:57:36] transpile started ...
[app-scripts] [13:57:43] transpile finished in 6.57 s
[app-scripts] [13:57:43] preprocess started ...
[app-scripts] [13:57:43] preprocess finished in 1 ms
[app-scripts] [13:57:43] webpack started ...
[app-scripts] [13:57:43] copy finished in 7.05 s
[app-scripts] [13:57:50] webpack finished in 6.73 s
[app-scripts] [13:57:50] sass started ...
[app-scripts] [13:57:51] sass finished in 1.27 s
[app-scripts] [13:57:51] postprocess started ...
[app-scripts] [13:57:51] postprocess finished in 8 ms
[app-scripts] [13:57:51] lint started ...
[app-scripts] [13:57:51] build dev finished in 15.02 s
[app-scripts] [13:57:51] watch ready in 15.21 s
[INFO] Development server running!
Local: http://localhost:8100
Use Ctrl+C to quit this process
[INFO] Browser window opened to http://localhost:8100!
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/service/rest.service.ts, line: 14
[app-scripts] '_SERVER' is declared but its value is never read.
[app-scripts] L13: export abstract class RestService {
[app-scripts] L14: private _SERVER = 'https://www.statistik.at/tus/server'; // production url
[app-scripts] L15: //private SERVER = 'http://10.0.2.2:7070/statistik.at/tus/server'; // Android emulator access to
local dev server
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/activity/activity.ts, line: 27
[app-scripts] 'title' is declared but its value is never read.
[app-scripts] L26: private primary: boolean;
[app-scripts] L27: private title: string;
[app-scripts] L28: private allActivities: Dict[];
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/activity/activity.ts, line: 29
[app-scripts] 'activities' is declared but its value is never read.
[app-scripts] L28: private allActivities: Dict[];
[app-scripts] L29: private activities: string[];
[app-scripts] L30: private selectedActivity: string = "";
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/login/login.ts, line: 43
[app-scripts] Property 'translate' is declared but its value is never read.
[app-scripts] L42: private activityService: ActivityService,
[app-scripts] L43: private translate: TranslateService
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/thanks/thanks.ts, line: 21
[app-scripts] L44:) {
[app-scripts] 'finished' is declared but its value is never read.
[app-scripts] L20: export class ThanksPage {
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/thanks/thanks.ts, line: 22
[app-scripts] L21: private finished: Date;
[app-scripts] L22: private day: Date;
[app-scripts] 'day' is declared but its value is never read.
[app-scripts] L21: private finished: Date;
[app-scripts] L22: private day: Date;
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/thanks/thanks.ts, line: 23
[app-scripts] L23: private tooEarly: boolean;
[app-scripts] 'tooEarly' is declared but its value is never read.
[app-scripts] L22: private day: Date;
[app-scripts] L23: private tooEarly: boolean;
[app-scripts] Property 'logService' is declared but its value is never read.
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/list/list.ts, line: 42
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/list/list.ts, line: 255
[app-scripts] L41: private itemListService: ItemListService,
[app-scripts] L42: private logService: LogService,
[app-scripts] L43: private notificationService: NotificationService,
[app-scripts] 'unanswered' is declared but its value is never read.
[app-scripts] L254: done(event) {
[app-scripts] [13:57:56] tslint: D:/git/TUS/tus-app-grantno2_2019/tus-client/src/pages/list/list.ts, line: 256
[app-scripts] L255: let unanswered = this.itemListService.unansweredEntries();

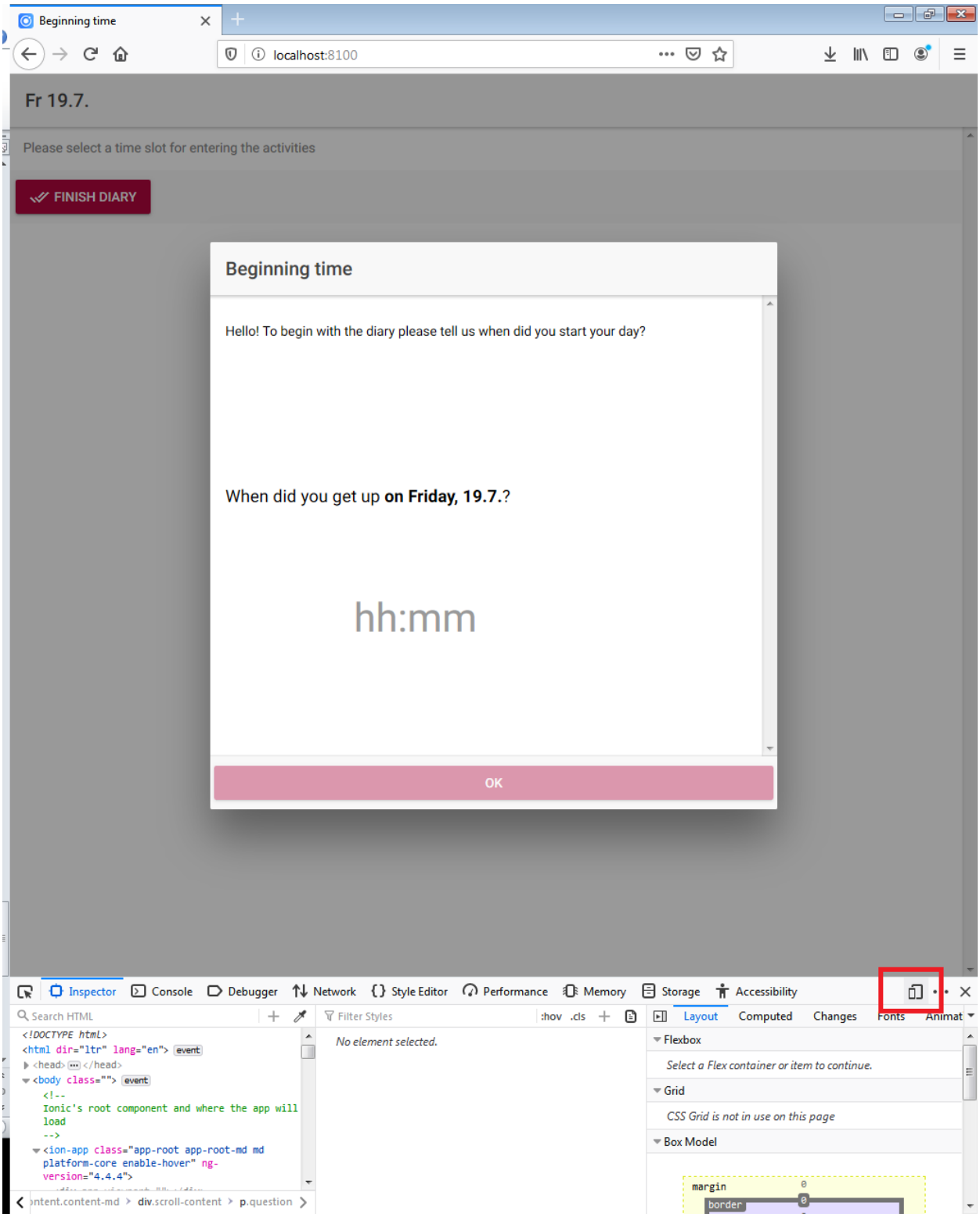

Time Use
localhost:8100
Time Use
User name
Password
LOG IN
Welcome at STAT_time! To start the diary please log in with your username and your password.

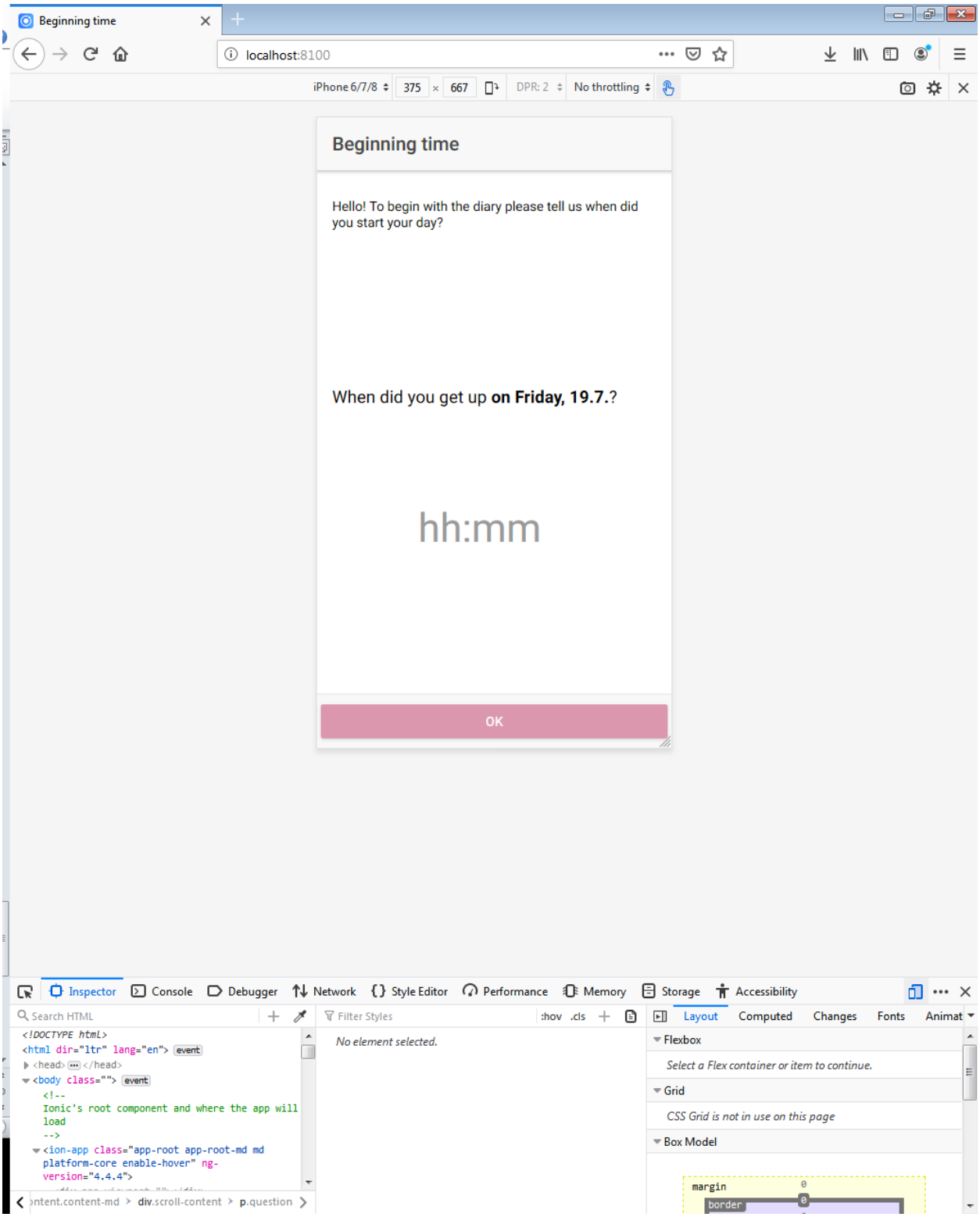


Press F12 for developer view.



Press the small "Smartphone and Tablet" symbol for mobile view (or press CTRL+SHIFT+M on your keyboard)


Beginning time
localhost:8100
Fr 19.7.
Please select a time slot for entering the activities
FINISH DIARY
Beginning time
Hello! To begin with the diary please tell us when did you start your day?
When did you get up on Friday, 19.7.?
hh:mm
OK
Inspector
Console
Debugger
Network
Style Editor
Performance
Memory
Storage
Accessibility
Search HTML
Filter Styles
Layout
Computed
Changes
Fonts
No element selected.
Flexbox
Select a Flex container or item to continue.
Grid
CSS Grid is not in use on this page
Box Model
margin
border


Beginning time
localhost:8100
iPhone 6/7/8
375
667
DPR: 2
No throttling
Beginning time
Hello! To begin with the diary please tell us when did you start your day?
When did you get up on Friday, 19.7.?
hh:mm
OK
Inspector
Console
Debugger
Network
Style Editor
Performance
Memory
Storage
Accessibility
Search HTML
Filter Styles
No element selected.
Layout
Computed
Changes
Fonts
Flexbox
Select a Flex container or item to continue.
Grid
CSS Grid is not in use on this page
Box Model
margin
border

Deploying on device

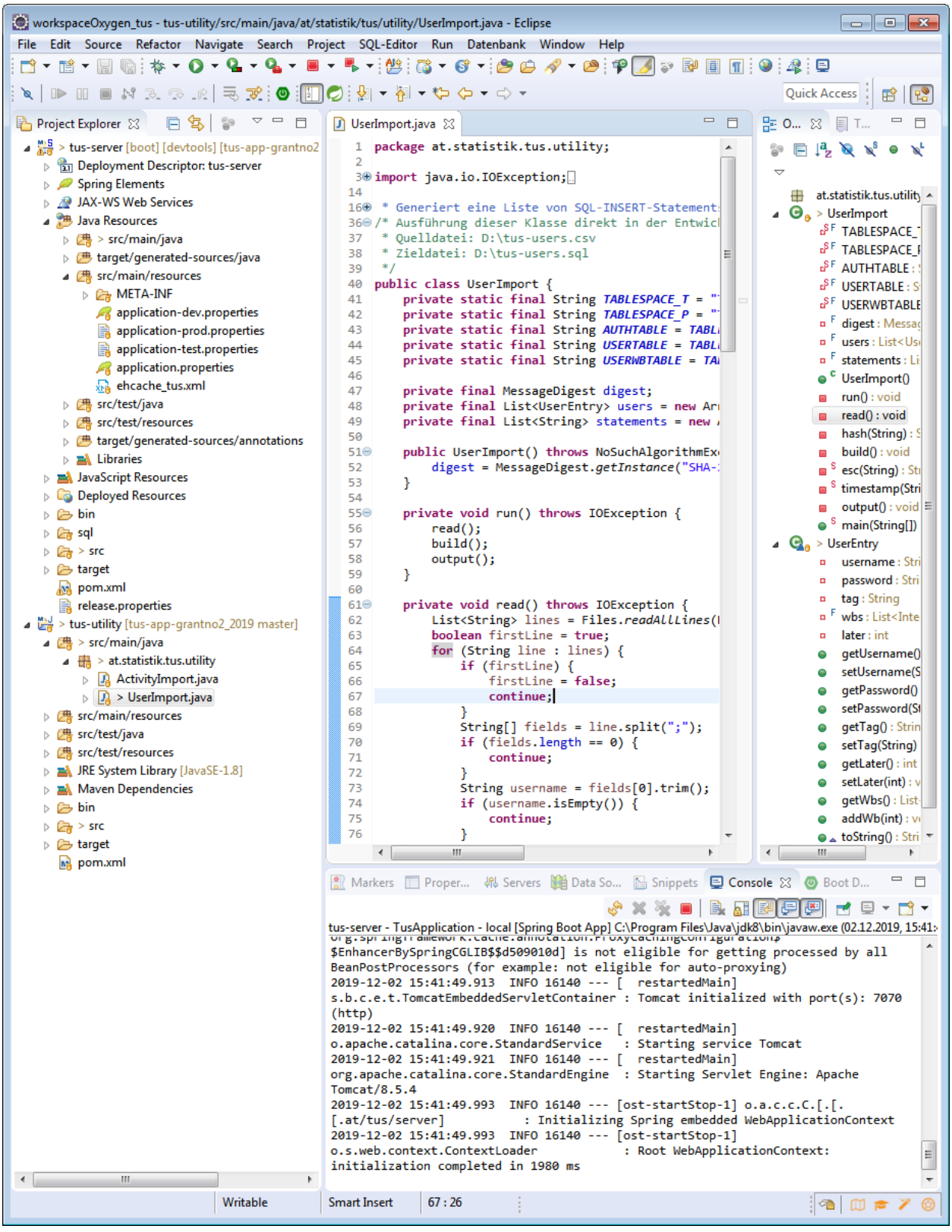
- https://ionicframework.com/docs/v3/intro/deploying/

User creator utility

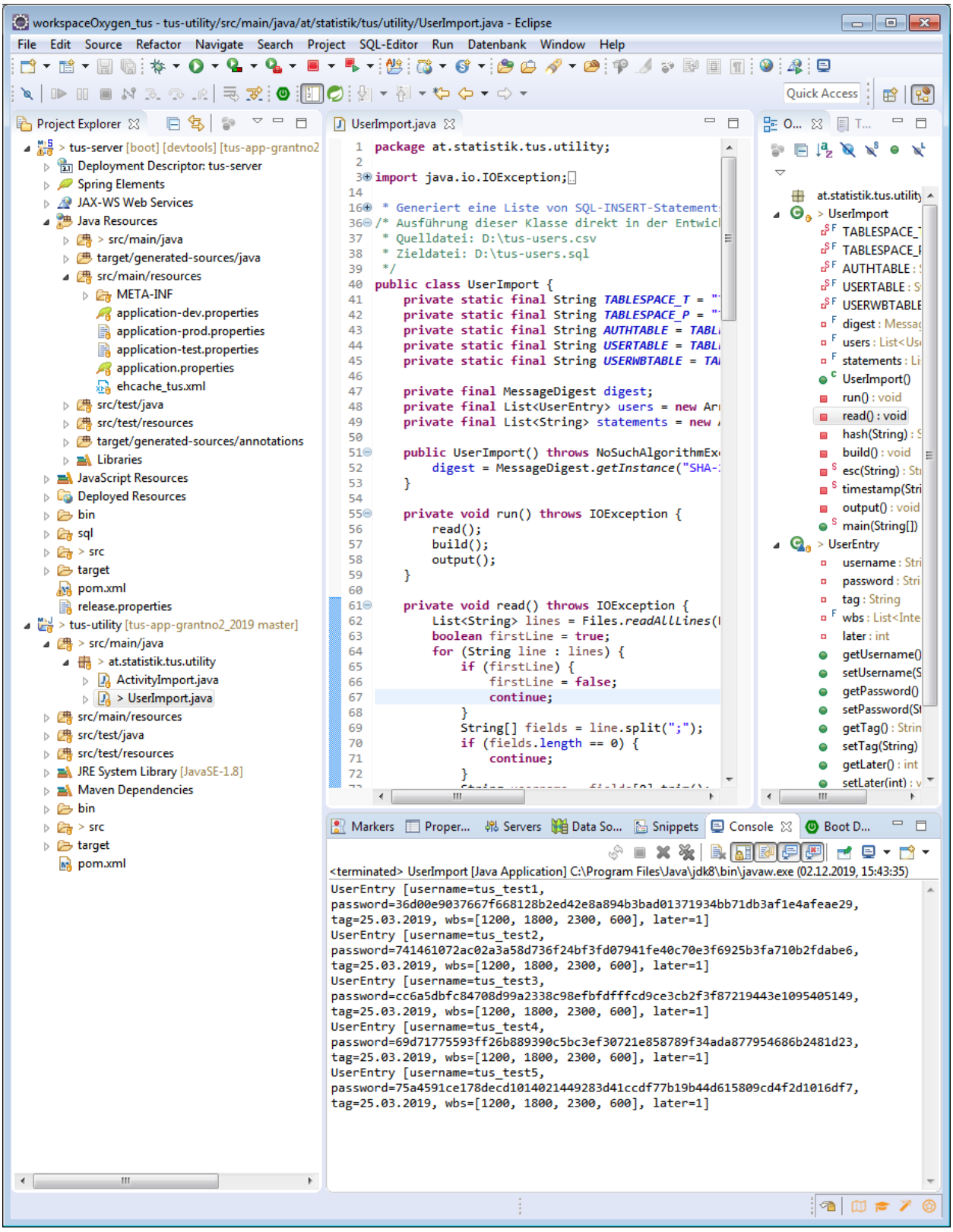
The tus-utility provides a simple java program creating insert statements for postgres databases for STAT_time user.

If you provide a tus-user.csv data in the format of "STAT_time/tus-utility/tus-user.csv" a "tus-user.sql" will be created, which contains the insert statements for the database to allow users to enter the service.

Open the "UserImport.java" file in Eclipse.



Press "Alt+Shift+X, J" (frist Alt+Shift+"X" release and "J" afterwards) or right click the file > "Run As" > "Java Application".



The result will be provided in the folder "STAT_time/tus-utility/" in the file "tus-user.sql".