



QUANTITY

<By Quantity Not By Quantity>

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Cross Platform Apps

Desktop



Mac



Linux

Web,
Mobile



android



The image shows an IDE interface with the following components:

- Project Explorer:** Shows a project named "Quantity2 [Quantity]" with a directory structure including `.idea`, `.mvn`, `indexes`, `node_modules` (library root), `scripts`, `src` (containing `main`, `assembly`, `bundles`, `frontend`, `java`, and `com.quantity`).
- Code Editor:** Displays `Student.java` with the following code:

```
24 import org.springframework.beans.factory.annotation.Autowired;
25 import org.springframework.stereotype.Component;
26 import java.time.LocalDate;
27 import java.util.ArrayList;
28 import java.util.List;
29
30 @PermitAll
31 @jakarta.persistence.Entity
32 @Component
33 @Icon(value = "Student.svg")
34 public class Student extends Entity<Student> {
35
36     @IndexedEmbedded
```
- Maven View:** Shows the `AppGenPlug` plugin configuration with goals like `make-app` and `sync`.
- Run Console:** Shows the execution of `Quantity [com.quantity:AppGenPlug:1.0:make-app]` with the output: "your capacitor app is ready to go!". It also lists "Next steps":
 - cd apps/
 - install dependencies (e.g. w/ npm install)
 - npm startand the version `11.0.0`.

The status bar at the bottom indicates the file is `pom.xml` in the `Quantity2` project, using the Codeium extension, with settings for 31:1, LF, UTF-8, and 4 spaces.

Front-end

IN THE SAME PLACE

Back-end


Database





Jakarta Compliant
Hibernate Compliant

Lucene-powered **Full-Text Search**, with pagination out of the box.

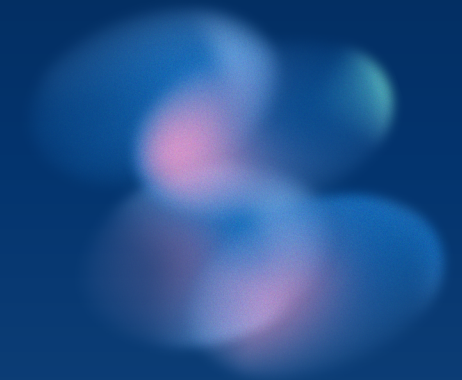




FullTextSearch.java

```
1  @IndexedEmbedded
2  public FldString name, description;
```

Multilingual Support From Day one



Multi-linguale from its core

学生 - 1015 zh

教育类型

- 教育部门
- 学期
- 考试类型
- 课程类型

学生管理

- 学生
- 学生课程
- 成绩

管理员

a admin

教育部门 × 考试类型 × 学生 × 学生 - 1015 ×

学生ID
12027757

名字
Amr

姓氏
Kurdi

地址
Nablus

出生日期
03/09/2002

Quantity2 development

Project

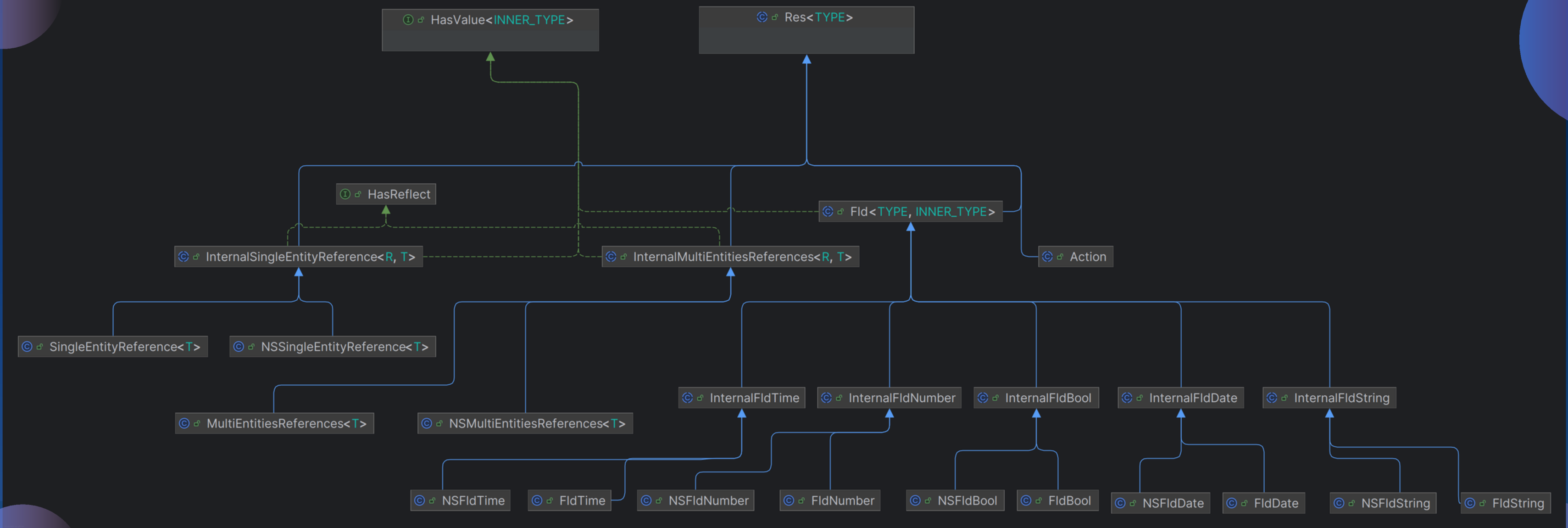
- Course
- Main
 - reflection
 - search
 - security
 - services
- Application
- resources
 - META-INF.resources
 - reflection
 - strings
 - ar_rtl.properties
 - en_itr.properties
 - es_itr.properties
 - fr_itr.properties
 - he_rtl.properties
 - it_itr.properties
 - ja_itr.properties
 - nl_itr.properties
 - tr_itr.properties
 - zh_itr.properties
 - application.properties

CourseType.java en_itr.properties

```
49 com.quantity.project.education.studentsmanagement.Student
50 com.quantity.project.education.studentsmanagement.StudentCourses=Student
51 com.quantity.project.education.studentsmanagement.StudentCourses.course
52 com.quantity.project.education.studentsmanagement.StudentCourses.semest
53 com.quantity.project.education.studentsmanagement.StudentCourses.studen
54 com.quantity.project.education.types=Education Types
55 com.quantity.project.education.types.CourseType=Course Type
56 com.quantity.project.education.types.CourseType.name=Name
57 com.quantity.project.education.types.EducationalDepartments=Educational
58 com.quantity.project.education.types.EducationalDepartments.name=Name
59 com.quantity.project.education.types.ExamType=Exam Type
60 com.quantity.project.education.types.ExamType.name=Name
61 com.quantity.project.education.types.Semester=Semester
62 com.quantity.project.education.types.Semester.endDate=End Date
63 com.quantity.project.education.types.Semester.name=Name
64 com.quantity.project.education.types.Semester.startDate=Start Date
65 com.quantity.views.myview.logistic.managment=Management
66 deletedSuccessfully=Deleted successfully
67 discard=Discard
68 itemsDeletedSuccessfully=Items deleted successfully
```

Maven

- site
- deploy
- Plugins
 - AppGenPlug (com.quer)
 - assembly (org.apache.r)
 - build-helper (org.codel)
 - clean (org.apache.maw)
 - compiler (org.apache.r)
 - deploy (org.apache.ma)
 - install (org.apache.mav)
 - jar (org.apache.maver)
 - processor (org.bsc.ma)
 - RefGenPlug (com.quer)
 - RepoServGenPlug (con)
 - ResGenPlug (com.quer)
 - ResGenPlug:ResGer
 - resources (org.apache)
 - site (org.apache.maver)
 - spring-boot (org.spring)
 - surefire (org.apache.m)



Optimized for **BLAZING**
FAST PERFORMANCE

```
34 public class Student extends Entity<Student> {
51     public void define(Student student) { amr
64         });
65         student.currentSemesterCourses.setOnSaveCallback(( Map<String, Object> context) -> {
66             StudentCourses studentCourses = (StudentCourses) context.get("studentCourses");
67             studentCourses.courses.setEntities(currentSemesterCourses.getEntity());
68             studentCourses.save();
69         });
70     }
71     student.currentSemesterCourses.setAddedFilters(Course.getCurrentStudentAllowedCoursesJPAQuery());
72     addQueryEditor( queryName: "default", this::defaultQuery);
73     addQueryEditor( queryName: "Student", this::studentQuery);
74 }
75
76 private void defaultQuery(Student student) { 1 usage amr
77 }
78
79 @ private void studentQuery(Student student) { 1 usage amr
80     student.studentID.setEditable(false);
81     student.firstName.setEditable(false);
82     student.lastName.setEditable(false);
83     student.birthDate.setEditable(false);
84     student.educationalDepartment.setEditable(false);
85     student.address.setEditable(true);
86     student.user.setVisibleField(false);
87     JPAQuery<Student> where = getCurrentStudentJPAQuery(QStudent.student);
88     student.addQueryFilter(where);
89 }
90
91 public static <U> JPAQuery<U> getCurrentStudentJPAQuery(Expression<U> expr) { 2 usages amr
```

Analyzing...

- package
- verify
- install
- site
- deploy
- Plugins
 - assembly (org.apache.maven.plugins:maven-assembly-plugin:3.6.0)
 - build-helper (org.codehaus.mojo:build-helper-maven-plugin:3.2.0)
 - clean (org.apache.maven.plugins:maven-clean-plugin:3.3.2)
 - com.quantity:AppGenPlug:1.0
 - compiler (org.apache.maven.plugins:maven-compiler-plugin:3.8.1)
 - deploy (org.apache.maven.plugins:maven-deploy-plugin:3.1.2)
 - install (org.apache.maven.plugins:maven-install-plugin:3.1.2)
 - jar (org.apache.maven.plugins:maven-jar-plugin:3.3.0)
 - processor (org.bsc.maven:maven-processor-plugin:3.3.3)
 - RefGenPlug (com.quantity:RefGenPlug:1.0)
 - RefGenPlug:RefGenPlug
 - RepoServGenPlug (com.quantity:RepoServGenPlug:1.0)
 - ResGenPlug (com.quantity:ResGenPlug:1.0)
 - resources (org.apache.maven.plugins:maven-resources-plugin:3.3.1)
 - site (org.apache.maven.plugins:maven-site-plugin:3.3)
 - spring-boot (org.springframework.boot:spring-boot-maven-plugin:3.1.2)
 - surefire (org.apache.maven.plugins:maven-surefire-plugin:3.1.2)
 - vaadin (com.vaadin:vaadin-maven-plugin:24.4.4)
 - Dependencies
 - Repositories



{ } reflection.json

```
1  {
2    "entities": [
3      {
4        "name": "com.quantity.project.education.studentsmanagement.StudentCourses",
5        "fields": [
6          {
7            "name": "student",
8            "type": "SingleEntityReference",
9            "generic": [
10             "com.quantity.project.education.studentsmanagement.Student"
11           ]
12          },
13          ..
14        .
15        ,...
16        ..
17        .
```

```
{} reflect-config.json

1  {
2    "name": "com.quantity.project.education.studentsmanagement.StudentCourses",
3    "allDeclaredFields": true,
4    "queryAllDeclaredMethods": true,
5    "queryAllPublicMethods": true,
6    "queryAllDeclaredConstructors": true,
7    "methods": [
8      {
9        "name": "<init>",
10       "parameterTypes": []
11     },
12     {
13       "name": "<init>",
14       "parameterTypes": [
15         "com.quantity.entity.EntityService"
16       ]
17     },
18     {
19       "name": "define",
20       "parameterTypes": [
21         "com.quantity.entity.Entity"
22       ]
23     },
24     {
25       "name": "define",
26       "parameterTypes": [
27         "com.quantity.project.education.studentsmanagement.StudentCourses"
28       ]
29     }
30   ]
31 }
```

Docker container



Live Demo





Thanks for your
attention, if you have
any questions read
the report again!

