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www.earth.lk/community
2004-2024 (20th Anniversary)

Sprint-2 Plan

Employee Detail Management

1. Establishing Project Folder Architecture
2. Server App Initialization
3. **Sprint-2 Execution** [2(a), **2(b)**, 2(c), 2(d), 2(e), 2(f)]
4. Completing Sprint-1 Objectives

2(a) Employee Module - Analysis, Design & DB-Preparation

Data Design, UI Design, Sample Data, Database Preparation

2(b) Employee View

1. [Controller Design](#)
2. [Coding-Server App](#)
 - [Version-1 \(Client Pagination\)](#)
[Entity Coding, DAO Coding, Controller Coding, Testing](#)
 - Version-2 (Server Pagination)
Controller Modification, Testing
3. [Coding-Client App](#)
 - [Version-1 \(Client Pagination\)](#)
[UI Preparation, Entity Coding, Service Coding, Controller Coding, Testing](#)
 - Version-2 (Server Pagination)
Service Modification, Controller Modification, Testing

2(c) Employee Search

2(d) Employee Insert

2(e) Employee Update

2(f) Employee Delete

2(b) Employee View

1. [Controller Design](#)
2. [Coding Server-App](#)
3. [Coding Client-App](#)
 - Version-1 (Client Pagination)**
 1. Client App Preparation for Sprint-2
 2. UI Preparation with Static Data & Testing
 3. Coding Entity Classes
 4. Data Loading with Dynamic Data & Testing
 5. Coding Service Classes for Dynamic Data & Testing (With & Without DI)
 6. **Error Correction – Server App – Employee Data Service**
 7. Data loading from Server & Testing, Promise-Pending/Resolve/Reject Status
 8. Client Pagination
 9. Client Search
 - Version-2 (Server Pagination)**

Error Correcting – Server App

Run the Server App and observe the following Output.

This was a problem with relationship mapping in Auto Generation of Entity Classes.

We have not ticked “Default Relationship” option.

(And need to exclude standalone numeric id from relationships)

It is also need to break the Cyclic JSON encoding in Relationships by annotation @JsonIgnore

```
localhost:8080/employees
[{"id":19,"number":"2201","fullname":"Ashan Pathum ", "callingname":"Ashan", "photo":null, "dobirth":"2001-01-01", "nic":null, "address":"Dabulla", "mobile":"0779666666", "land":null, "doassignment":"2022-01-01", "designationId":1, "employeeestatusId":1, "description":"BIT UG"}, {"id":20,"number":"2202","fullname":"Dileesha Rukmal", "callingname":"Rukmal", "photo":null, "dobirth":"2001-01-02", "nic":null, "address":"Kagalle", "mobile":"0769666666", "land":null, "doassignment":"2022-01-01", "designationId":1, "employeeestatusId":1, "description":"BIT UG"}, {"id":21,"number":"2203","fullname":"Thahir Imran", "callingname":"Imran", "photo":null, "dobirth":"2001-01-03", "nic":null, "address":"Waththala", "mobile":"0719666666", "land":null, "doassignment":"2022-11-01", "designationId":1, "employeeestatusId":1, "description":"BIT UG"}, {"id":22,"number":"2301","fullname":"Lakshan Ruwinda", "callingname":"Lakshan", "photo":null, "dobirth":"2001-01-04", "nic":null, "address":"Kirindiwala", "mobile":"0729666666", "land":null, "doassignment":"2023-01-01", "designationId":1, "employeeestatusId":1, "description":"BIT UG"}, {"id":23,"number":"2302","fullname":"Arshad Ahamad", "callingname":"Arshad", "photo":null, "dobirth":"2001-01-05", "nic":null, "address":"Galle", "mobile":"0759666666", "land":null, "doassignment":"2023-01-01", "designationId":1, "employeeestatusId":1, "description":"BIT/BSC UG"}, {"id":24,"number":"2303","fullname":"Imasha Gaupadi", "callingname":"Imasha", "photo":null, "dobirth":"2001-01-06", "nic":null, "address":"Galle", "mobile":"0789666666", "land":null, "doassignment":"2023-01-01", "designationId":1, "employeeestatusId":1, "description":"BIT UG/TTC"]}
```

```
{ "id":19, "number":"2201", "fullname":"Ashan Pathum", "callingname":"Ashan", "photo":null, "genderId":1, "dobirth":"2001-01-01", "nic":null, "address":"Dabulla", "mobile":"0779666666", "land":null, "doassignment":"2022-01-01", "designationId":1, "employeeestatusId":1, "description":"BIT UG" }
```

```
"genderId":1 → "gender":{"--}
"designationId":1 → "designation":{"--}
"employeeestatusId":1 → "employeeestatus":{"--}
```

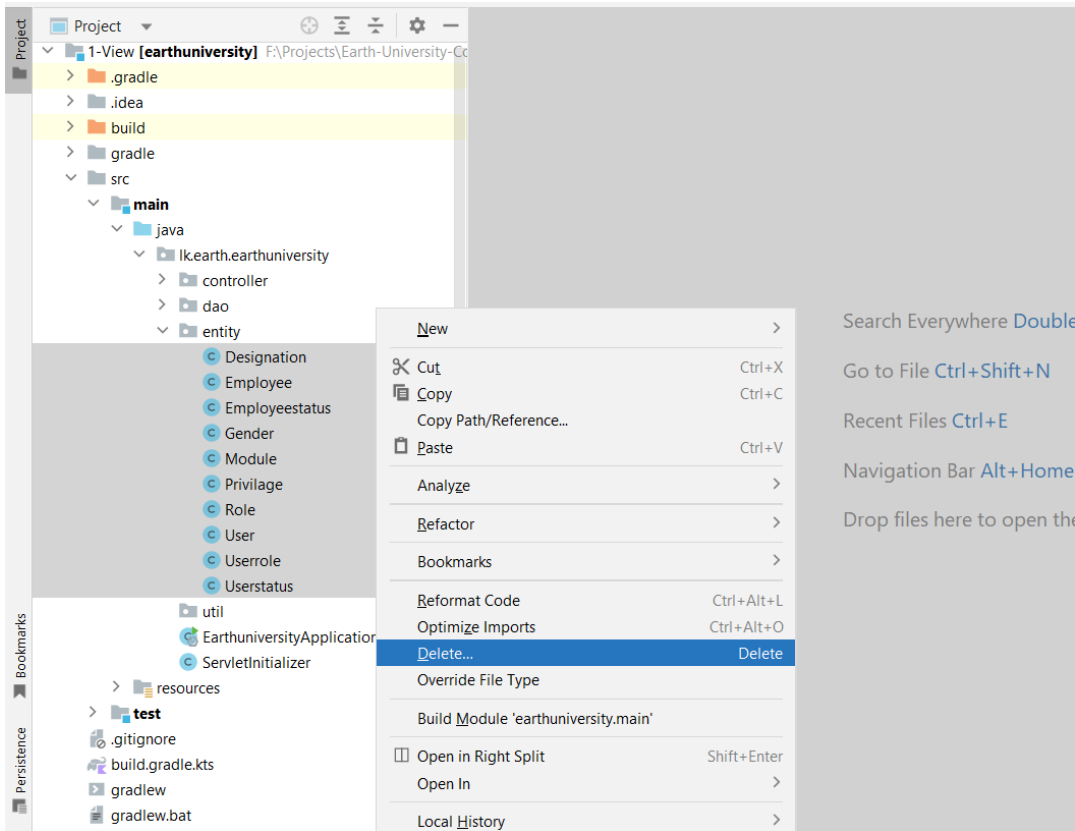
After Correction

```
localhost:8080/employees
[{"id":19,"number":"2201","fullname":"Ashan Pathum ", "callingname":"Ashan", "photo":null, "dobirth":"2001-01-01", "nic":null, "address":"Dabulla", "mobile":"0779666666", "land":null, "doassignment":"2022-01-01", "description":"BIT UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[]}, {"id":20,"number":"2202","fullname":"Dileesha Rukmal", "callingname":"Rukmal", "photo":null, "dobirth":"2001-01-02", "nic":null, "address":"Kagalle", "mobile":"0769666666", "land":null, "doassignment":"2022-01-01", "description":"BIT UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[]}, {"id":21,"number":"2203","fullname":"Thahir Imran", "callingname":"Imran", "photo":null, "dobirth":"2001-01-03", "nic":null, "address":"Waththala", "mobile":"0719666666", "land":null, "doassignment":"2022-11-01", "description":"BIT UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[]}, {"id":22,"number":"2301","fullname":"Lakshan Ruwinda", "callingname":"Lakshan", "photo":null, "dobirth":"2001-01-04", "nic":null, "address":"Kirindiwala", "mobile":"0729666666", "land":null, "doassignment":"2023-01-01", "description":"BIT UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[]}, {"id":23,"number":"2302","fullname":"Arshad Ahamad", "callingname":"Arshad", "photo":null, "dobirth":"2001-01-05", "nic":null, "address":"Galle", "mobile":"0759666666", "land":null, "doassignment":"2023-01-01", "description":"BIT/BSC UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[]}, {"id":24,"number":"2303","fullname":"Imasha Gaupadi", "callingname":"Imasha", "photo":null, "dobirth":"2001-01-06", "nic":null, "address":"Galle", "mobile":"0789666666", "land":null, "doassignment":"2023-01-01", "description":"BIT UG/TTC", "gender":{"id":2, "name":"Female"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[]}]
```

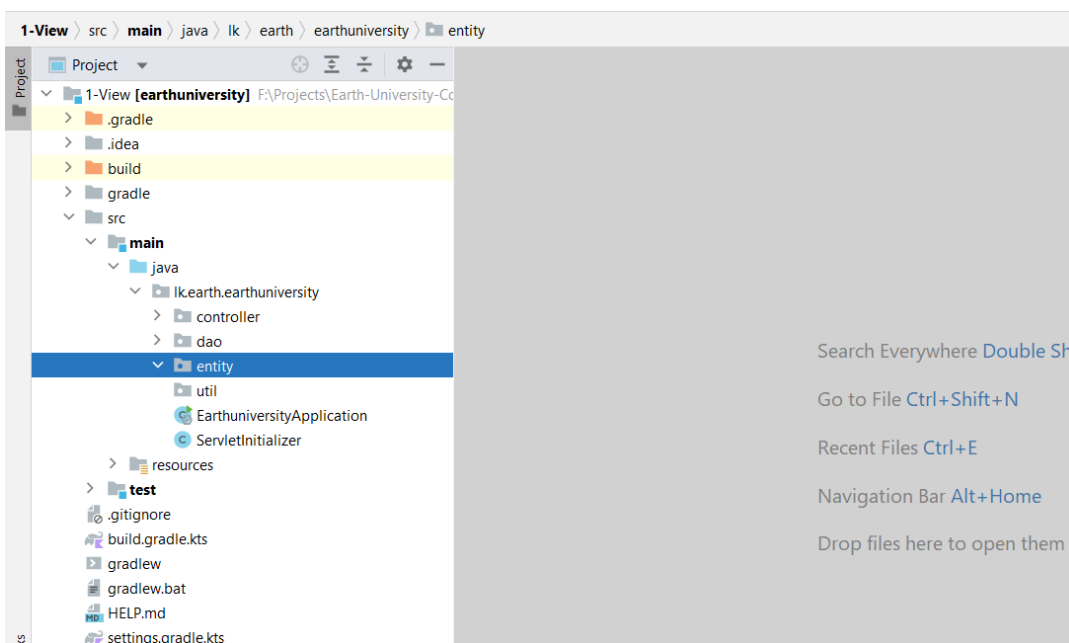
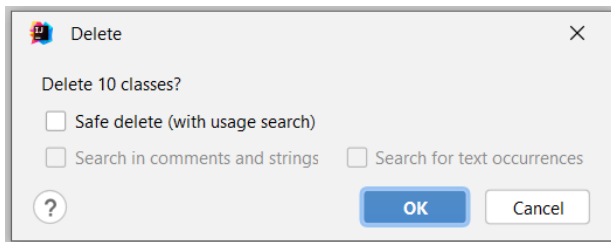
```
{ "id":19, "number":"2201", "fullname":"Ashan Pathum ", "callingname":"Ashan", "photo":null, "dobirth":"2001-01-01", "nic":null, "address":"Dabulla", "mobile":"0779666666", "land":null, "doassignment":"2022-01-01", "description":"BIT UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}, "users":[] }
```

Steps to follow for Correction.

1. Delete all the Entity Classes without Safely Delete. (Keep a copy of these classes to compare with new Entity Classes)
2. Regenerate the Entity Classes as Correctly and Observe the Output. Identify New Error created by modification
3. Correct the Error with @JsonIgnore

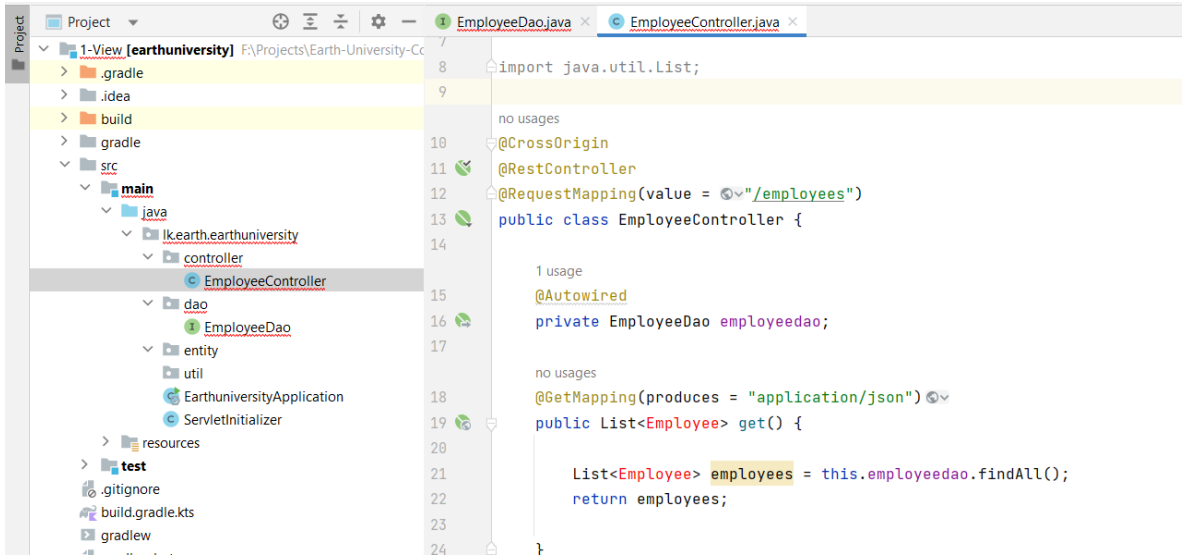
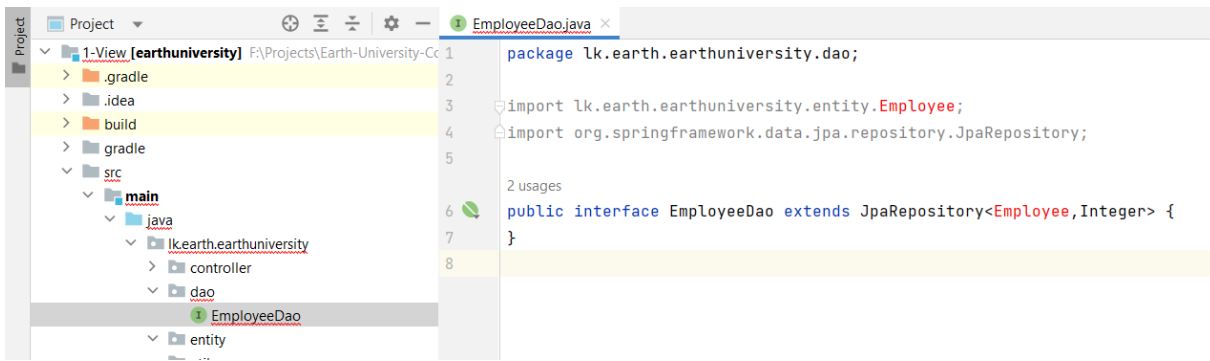


Untick Safe Delete



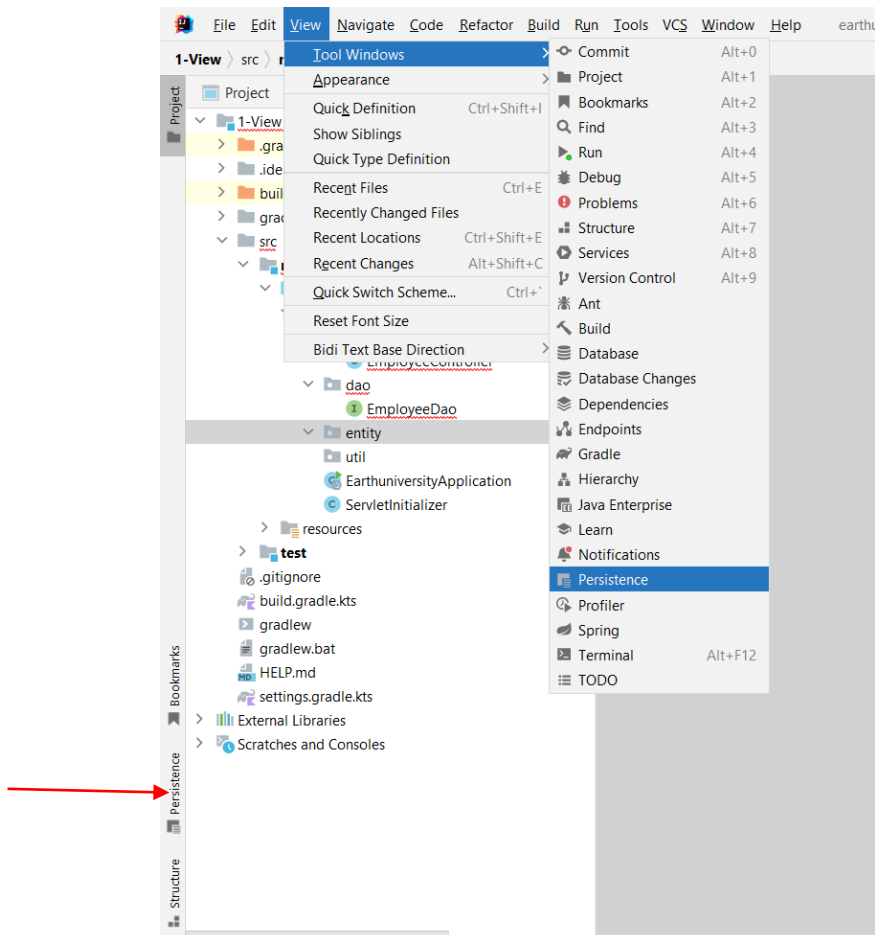
Now, there will be Errors in DAO Classes and Controllers

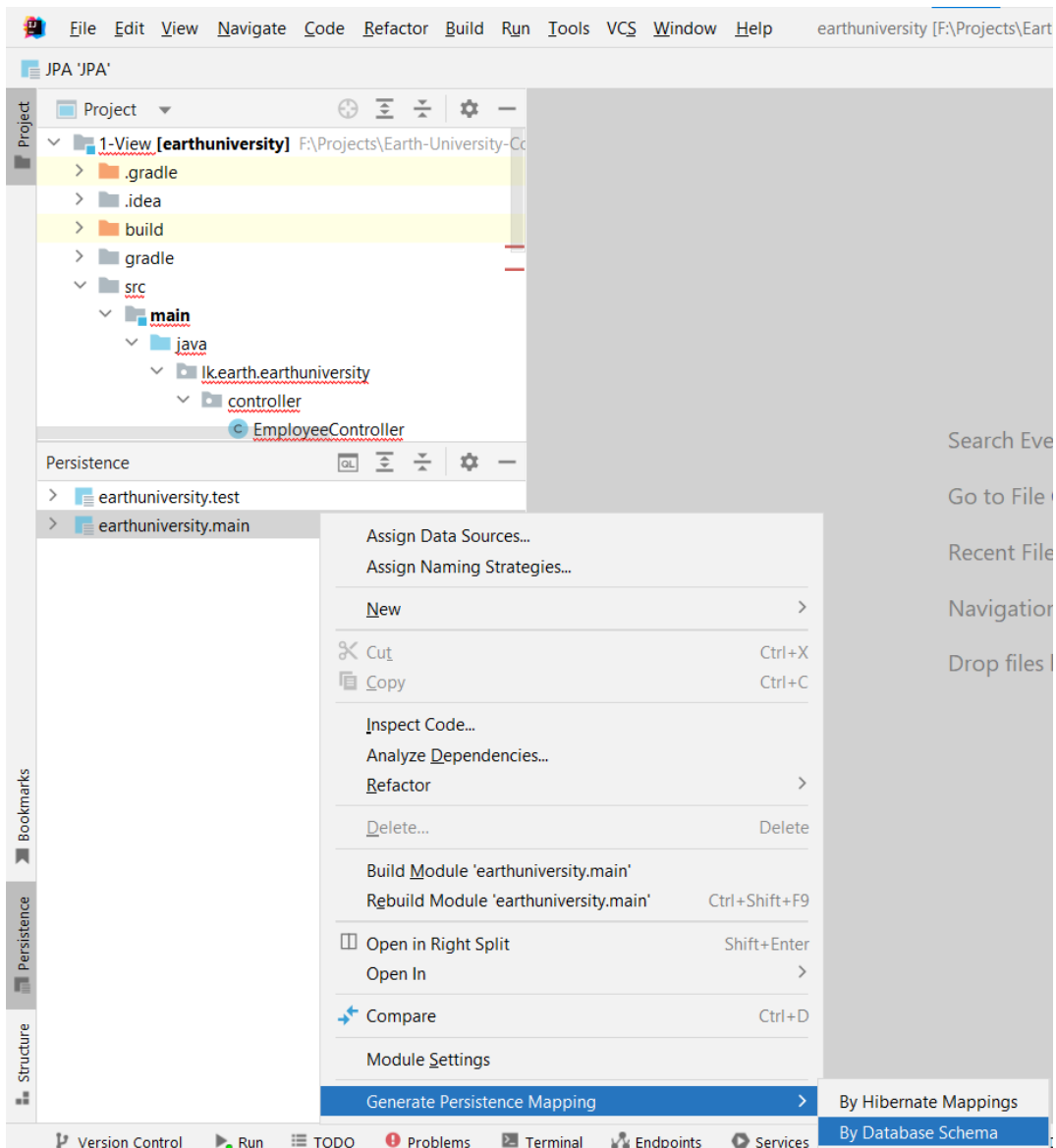
Do not need to correct them, it will be automatically corrected when we build Entity Classes again



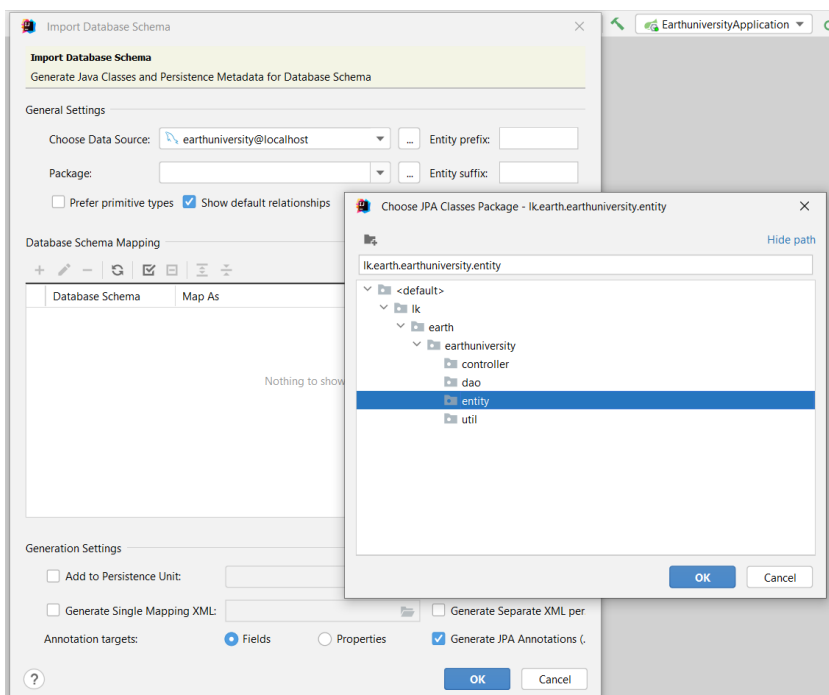
Generating Entity Classes correctly

Get the Persistence Window if you do not see it





Select the Data Source, Entity Package, Tick “Show Default Relationship”, No Prefix or Suffix
If the Entity Classes are not listed, Tick & Untick Prefer Primitive Types. (Make sure finally it is unticked)



Generate JPA Annotation is required to be selected

Import Database Schema

Generate Java Classes and Persistence Metadata for Database Schema

General Settings

Choose Data Source: Entity prefix:

Package: Entity suffix:

☐ Prefer primitive types ☒ Show default relationships

Database Schema Mapping

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/>	designation	Designation	Designation
<input checked="" type="checkbox"/>	employee	Employee	Employee
<input checked="" type="checkbox"/>	employeeestatus	Employeeestatus	Employeeestatus
<input checked="" type="checkbox"/>	gender	Gender	Gender
<input checked="" type="checkbox"/>	module	Module	Module
<input checked="" type="checkbox"/>	privilage	Privilage	Privilage
<input checked="" type="checkbox"/>	role	Role	Role
<input checked="" type="checkbox"/>	user	User	User
<input checked="" type="checkbox"/>	userrole	Userrole	Userrole
<input checked="" type="checkbox"/>	userstatus	Userstatus	Userstatus

Generation Settings

☐ Add to Persistence Unit: ☐ Generate Column Propertie.

☐ Generate Single Mapping XML:

Annotation targets: ☒ Fields ☐ Properties ☒ Generate JPA Annotations (.)

Change the reference variable name for simplicity

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/>	designation	Designation	Designation
<input checked="" type="checkbox"/>	employee.designation	employees	java.util.Collection<Employee>
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	name	name	java.lang.String

employeesById → employees

(Collections → with "s" – employees, Single → employee)

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/>	employee	Employee	Employee
<input checked="" type="checkbox"/>	designation.employees	designation	Designation
<input checked="" type="checkbox"/>	employeeestatus.employee	employeeestatus	Employeeestatus
<input checked="" type="checkbox"/>	gender.employeesById	gender	Gender
<input checked="" type="checkbox"/>	user.employeeByEmployee	users	java.util.Collection<User>
<input checked="" type="checkbox"/>	address	address	java.lang.String
<input checked="" type="checkbox"/>	callingname	callingname	java.lang.String
<input checked="" type="checkbox"/>	description	description	java.lang.String
<input type="checkbox"/>	designation_id	designationId	java.lang.Integer
<input checked="" type="checkbox"/>	doassignment	doassignment	java.sql.Date
<input checked="" type="checkbox"/>	dobirth	dobirth	java.sql.Date
<input type="checkbox"/>	employeeestatus_id	employeeestatusId	java.lang.Integer
<input checked="" type="checkbox"/>	fullname	fullname	java.lang.String
<input type="checkbox"/>	gender_id	genderId	java.lang.Integer
<input checked="" type="checkbox"/>	id	id	java.lang.Integer

designationById → designation, employeeestatus, gender, users,

Untick Integer Ids for relationships, Tick all other attributes including "id"

	Database Schema	Map As	Mapped Type
<input type="checkbox"/>	employeeestatus_id	employeeestatusId	java.lang.Integer
<input checked="" type="checkbox"/>	fullname	fullname	java.lang.String
<input type="checkbox"/>	gender_id	genderId	java.lang.Integer
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	land	land	java.lang.String
<input checked="" type="checkbox"/>	mobile	mobile	java.lang.String
<input checked="" type="checkbox"/>	nic	nic	java.lang.String
<input checked="" type="checkbox"/>	number	number	java.lang.String
<input checked="" type="checkbox"/>	photo	photo	byte[]
<input checked="" type="checkbox"/> >	employeeestatus	Employeeestatus	Employeeestatus
<input checked="" type="checkbox"/> >	gender	Gender	Gender

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/> v	employeeestatus	Employeeestatus	Employeeestatus
<input checked="" type="checkbox"/>	employee.employeeestatu	employees ←	<u>java.util</u> .Collection<Employee>
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	name	name	java.lang.String
<input checked="" type="checkbox"/> v	gender	Gender	Gender
<input checked="" type="checkbox"/>	employee.gender	employees ←	<u>java.util</u> .Collection<Employee>
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	name	name	java.lang.String
<input checked="" type="checkbox"/> >	module	Module	Module
<input checked="" type="checkbox"/> >	privilage	Privilage	Privilage

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/> v	module	Module	Module
<input checked="" type="checkbox"/>	privilage.module	privileges ←	<u>java.util</u> .Collection<Privilage>
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	name	name	java.lang.String
<input checked="" type="checkbox"/> v	privilage	Privilage	Privilage
<input checked="" type="checkbox"/>	module.privileges	module ←	Module
<input checked="" type="checkbox"/>	role.privileges	role ←	Role
<input checked="" type="checkbox"/>	del	del	java.lang.Integer
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	ins	ins	java.lang.Integer
<input type="checkbox"/> ←	module_id	moduleId	java.lang.Integer
<input type="checkbox"/> ←	role_id	roleId	java.lang.Integer
<input checked="" type="checkbox"/>	sel	sel	java.lang.Integer
<input checked="" type="checkbox"/>	upd	upd	java.lang.Integer
<input checked="" type="checkbox"/> v	role	Role	Role

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/> v	role	Role	Role
<input checked="" type="checkbox"/>	privilage.role	privileges ←	<u>java.util</u> .Collection<Privilage>
<input checked="" type="checkbox"/>	userrole.roleByRoleId	userroles ←	<u>java.util</u> .Collection<Userrole>
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	name	name	java.lang.String

	Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/>	name	name	java.lang.String
<input checked="" type="checkbox"/>	user	User	User
<input checked="" type="checkbox"/>	employee.users	employee ←	Employee
<input checked="" type="checkbox"/>	userrole.userByUserId	userroles ←	java.util.Collection<Userrole>
<input checked="" type="checkbox"/>	userstatus.usersById	userstatus ←	Userstatus
<input checked="" type="checkbox"/>	description	description	java.lang.String
<input checked="" type="checkbox"/>	dcreated	dcreated	java.sql.Timestamp
<input type="checkbox"/>	employee_id	employeeId	java.lang.Integer
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	password	password	java.lang.String
<input checked="" type="checkbox"/>	salt	salt	java.lang.String
<input checked="" type="checkbox"/>	username	username	java.lang.String
<input type="checkbox"/>	userstatus_id	userstatusId	java.lang.Integer
<input checked="" type="checkbox"/>	userrole	Userrole	Userrole

<input checked="" type="checkbox"/>	userstatus	Userstatus	Userstatus
<input checked="" type="checkbox"/>	user.userstatus	users ←	java.util.Collection<User>
<input checked="" type="checkbox"/>	id	id	java.lang.Integer
<input checked="" type="checkbox"/>	name	name	java.lang.String

Import Database Schema

Import Database Schema
Generate Java Classes and Persistence Metadata for Database Schema

General Settings

Choose Data Source: ... Entity prefix:
Package: ... Entity suffix:
☐ Prefer primitive types ☒ Show default relationships

Database Schema Mapping

Database Schema	Map As	Mapped Type
<input checked="" type="checkbox"/> name		
<input checked="" type="checkbox"/> user		
<input checked="" type="checkbox"/> employ		
<input checked="" type="checkbox"/> userrole		
<input checked="" type="checkbox"/> userstat		
<input checked="" type="checkbox"/> descrip		
<input checked="" type="checkbox"/> dcreat		
<input type="checkbox"/> employee_id	employeeId	java.lang.Integer
<input checked="" type="checkbox"/> id	id	java.lang.Integer
<input checked="" type="checkbox"/> password	password	java.lang.String

?
Import Database Schema

The OR mapping is about to be generated.
Do you want to continue?

Yes No

Generation Settings

☐ Add to Persistence Unit: + ☐ Generate Column Propertie.
☐ Generate Single Mapping XML: ☐ Generate Separate XML per
Annotation targets: ☒ Fields ☐ Properties ☒ Generate JPA Annotations (.
? OK Cancel

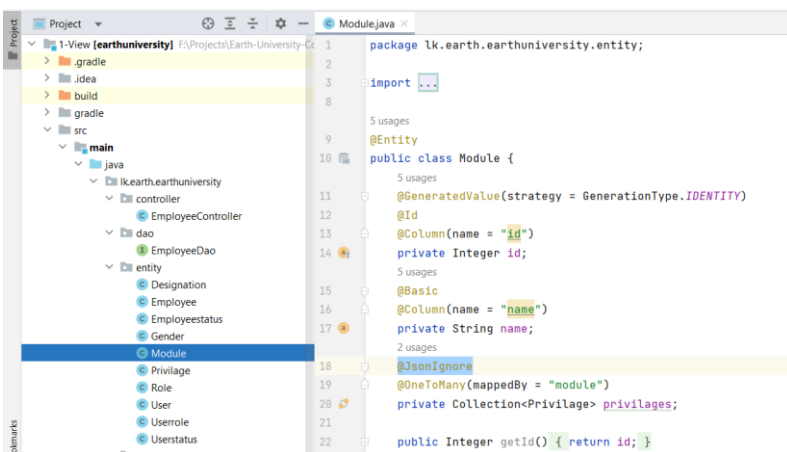
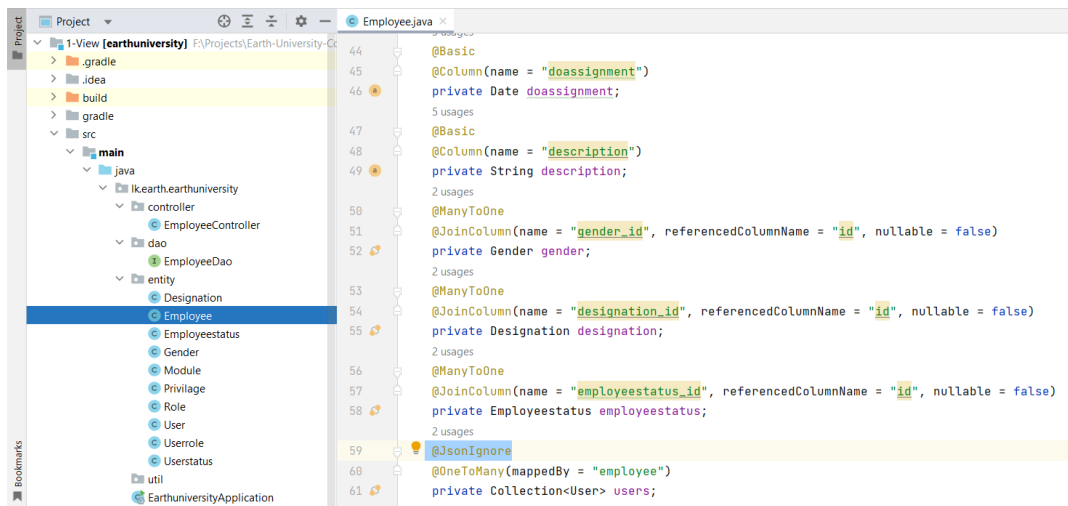
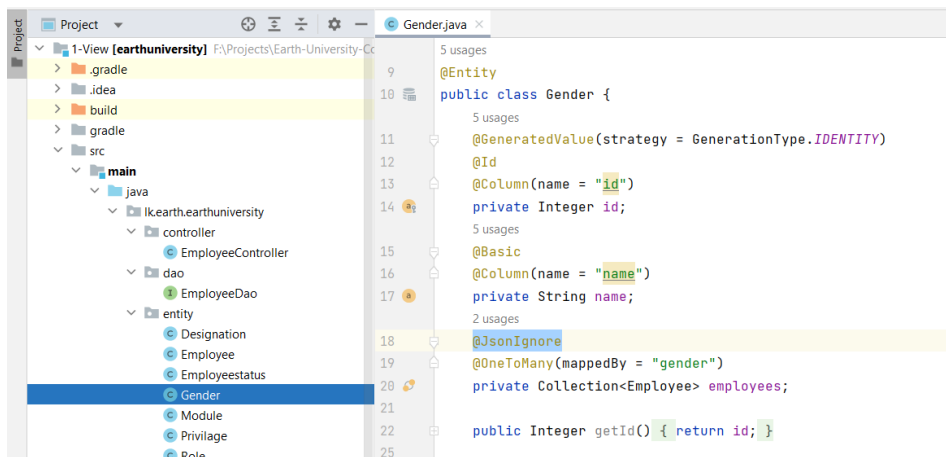
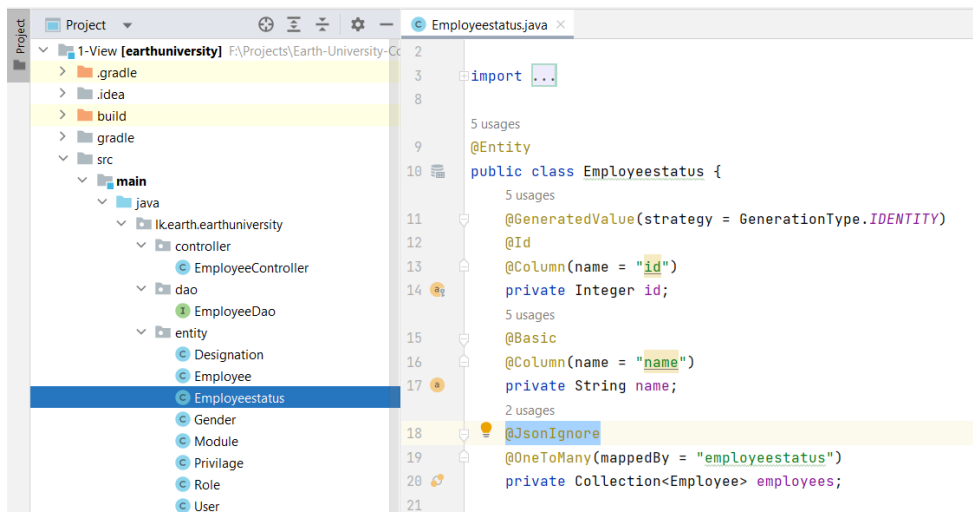
Click on “Yes”

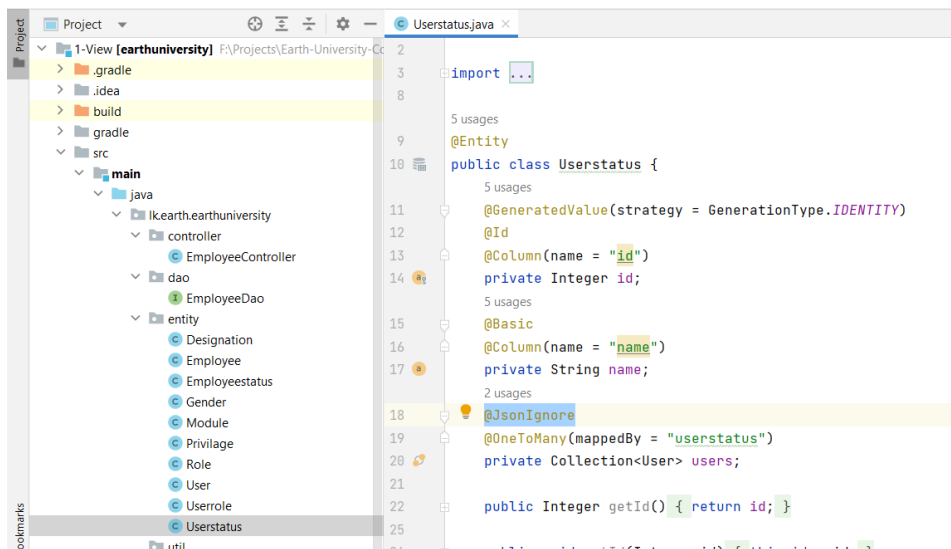
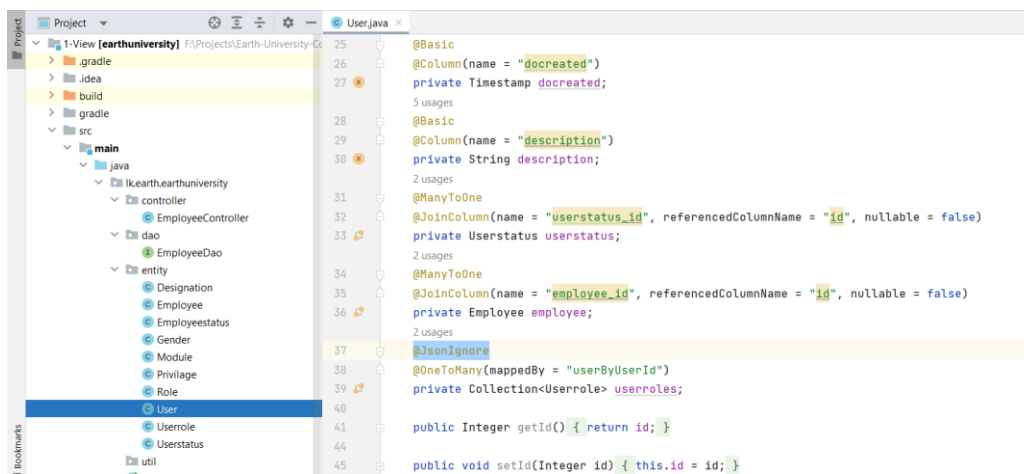
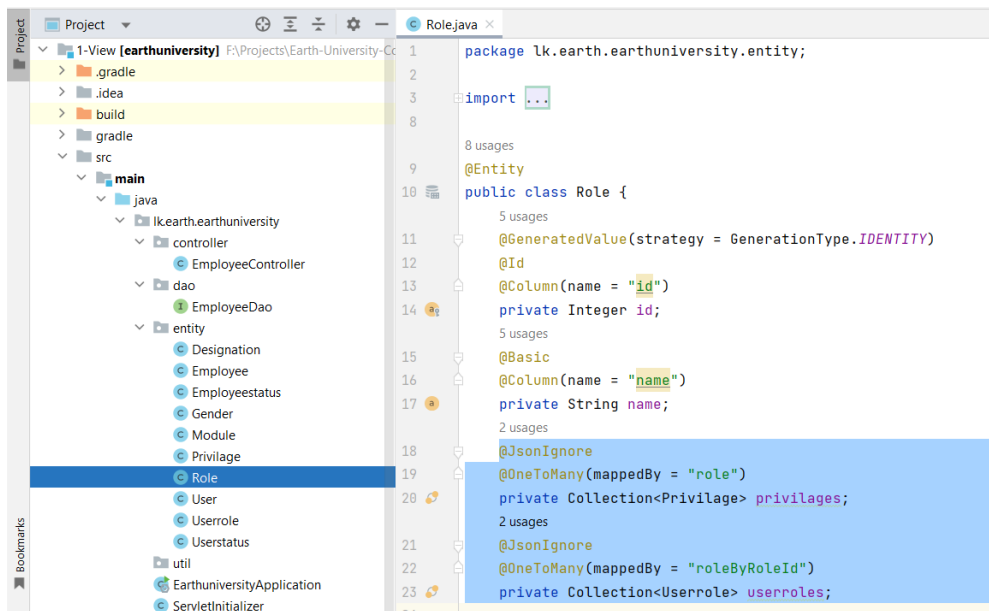
Entities will be created automatically and resolve entity references in both DAO and Controller Classes.

Run the Project and Get the Output

No Compilation Error

But Runtime Error will be thrown,





Rerun the Project and Test the employee service

Finite List of Employee JSONs will be displayed

No Runtime Error in the Project Window

Related Objects are linked as Objects, not just with Ids of Foreign Keys.

localhost:8080/employees

```
[{"id":19,"number":"2201","fullname":"Ashan Pathum ", "callingname":"Ashan", "photo":null, "dobirth":"2001-01-01", "nic":null, "address":"Dabulla", "mobile":"0779666666", "land":null, "doassignment":"2022-01-01", "description":"BIT UG", "gender":{"id":1, "name":"Male"}, "designation":{"id":1, "name":"Demonstrator L1"}, "employeeestatus":{"id":1, "name":"Active"}}, {"id":20, "number": "2202", "fullname": "Dileesha Rukmal", "callingname": "Rukmal", "photo": null, "dobirth": "2001-01-02", "nic": null, "address": "Kagalle ", "mobile": "0769666666", "land": null, "doassignment": "2022-01-01", "description": "BIT UG", "gender": {"id": 1, "name": "Male"}, "designation": {"id": 1, "name": "Demonstrator L1"}, "employeeestatus": {"id": 1, "name": "Active"}}, {"id":21, "number": "2203", "fullname": "Thahir Imran", "callingname": "Imran", "photo": null, "dobirth": "2001-01-03", "nic": null, "address": "Maththala", "mobile": "0719666666", "land": null, "doassignment": "2022-11-01", "description": "BIT UG", "gender": {"id": 1, "name": "Male"}, "designation": {"id": 1, "name": "Demonstrator L1"}, "employeeestatus": {"id": 1, "name": "Active"}}, {"id":22, "number": "2301", "fullname": "Lakshan Ruwinda", "callingname": "Lakshan ", "photo": null, "dobirth": "2001-01-04", "nic": null, "address": "Kirindiwala", "mobile": "0729666666", "land": null, "doassignment": "2023-01-01", "description": "BIT UG", "gender": {"id": 1, "name": "Male"}, "designation": {"id": 1, "name": "Demonstrator L1"}, "employeeestatus": {"id": 1, "name": "Active"}}, {"id":23, "number": "2302", "fullname": "Arshad Ahamad", "callingname": "Arshad", "photo": null, "dobirth": "2001-01-05", "nic": null, "address": "Galle ", "mobile": "0759666666", "land": null, "doassignment": "2023-01-01", "description": "BIT/BSC UG", "gender": {"id": 1, "name": "Male"}, "designation": {"id": 1, "name": "Demonstrator L1"}, "employeeestatus": {"id": 1, "name": "Active"}}, {"id":24, "number": "2303", "fullname": "Imasha Gaupadi", "callingname": "Imasha ", "photo": null, "dobirth": "2001-01-06", "nic": null, "address": "Galle", "mobile": "0789666666", "land": null, "doassignment": "2023-01-01", "description": "BIT UG/TTC", "gender": {"id": 2, "name": "Female"}, "designation": {"id": 1, "name": "Demonstrator L1"}, "employeeestatus": {"id": 1, "name": "Active"}}]
```

Project: 1-View [earthuniversity] F:\Projects\Earth-University-C...
Search Everywhere Double Shift
Go to File Ctrl+Shift+N

Run: EarthuniversityApplication

Console: Actuator

```
2023-04-11 18:45:18.124 INFO 5304 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1041 ms
2023-04-11 18:45:18.207 INFO 5304 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2023-04-11 18:45:18.458 INFO 5304 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2023-04-11 18:45:18.492 INFO 5304 --- [main] org.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]
2023-04-11 18:45:18.527 INFO 5304 --- [main] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.15.Final
2023-04-11 18:45:18.638 INFO 5304 --- [main] org.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}
2023-04-11 18:45:18.748 INFO 5304 --- [main] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQL8Dialect
2023-04-11 18:45:19.305 INFO 5304 --- [main] org.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2023-04-11 18:45:19.312 INFO 5304 --- [main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'
2023-04-11 18:45:19.567 WARN 5304 --- [main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering.
2023-04-11 18:45:19.823 INFO 5304 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 8080 (http) with context path ''
2023-04-11 18:45:19.832 INFO 5304 --- [main] l.e.e.EarthuniversityApplication : Started EarthuniversityApplication in 3.094 seconds (JVM running for 3.194s)
2023-04-11 18:45:56.225 INFO 5304 --- [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring DispatcherServlet 'dispatcherServlet'
2023-04-11 18:45:56.226 INFO 5304 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'dispatcherServlet'
2023-04-11 18:45:56.227 INFO 5304 --- [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization in 1 ms
```

localhost:8080/employees

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localhost:8080/employees