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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)(i)(ii)**(iii)(iv)(v), 2(e), 2(f)]
4. Completing Sprint-1 Objectives

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

2(b) Employee View

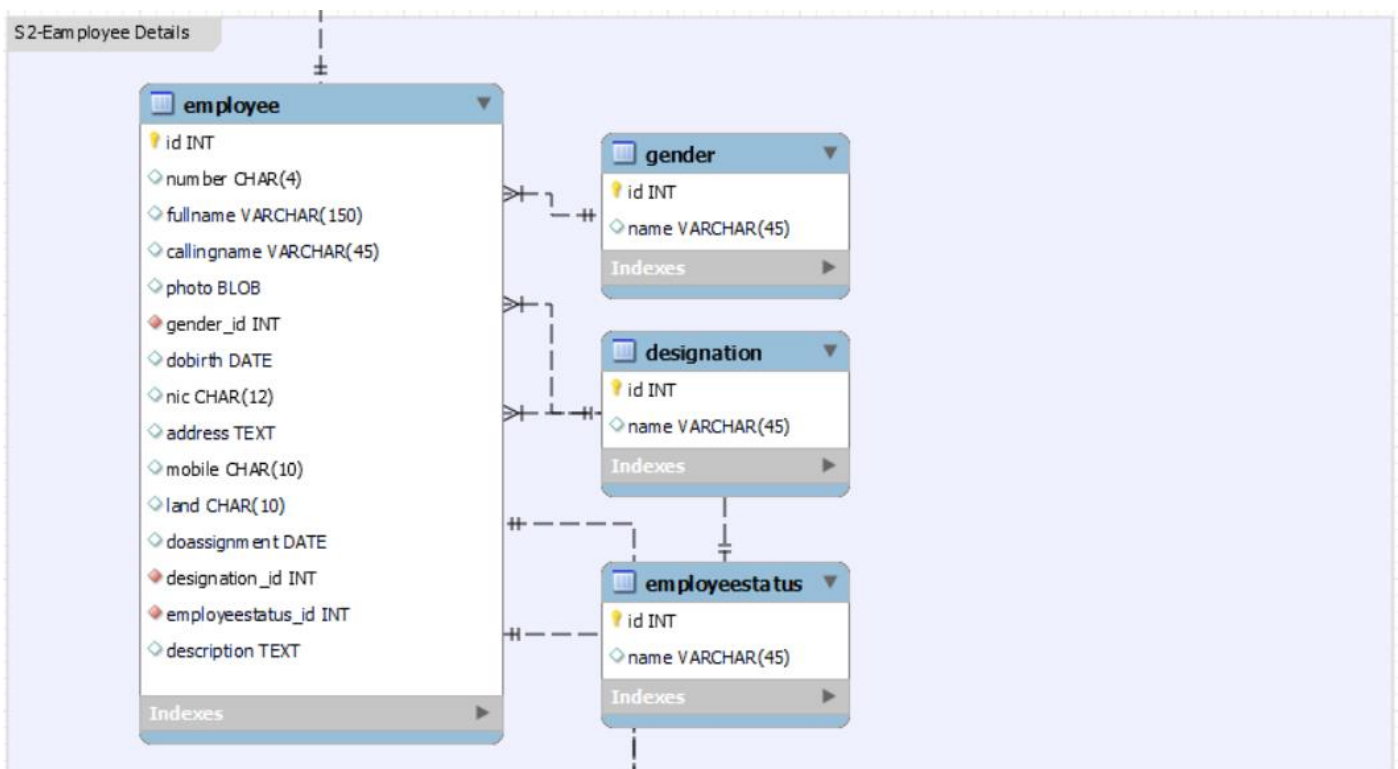
2(c) Employee Search

2(d) Employee Insert

2(e) Employee Update

2(f) Employee Delete

Sprint – ER



2(d) Employee Insert

1. Folder and Project preparation with Backups

2. Prepare Supportive Data for the Insert Form

(A) Establish and Test Server Services need for Supportive Data List

- (1) genders/list
- (2) designations/list
- (3) **employeeestatus/list (entity/dao/controller)**

(B) Establish and Test for Client Services

- (1) GenderService, DesignationService, **EmployeeestatusService (entity/services)**
- (2) **Test with using initialize()**

3. Prepare Regex Service for the Insert Form

4. Client App

5. Server-App

1. Folder and Project preparation with Backups

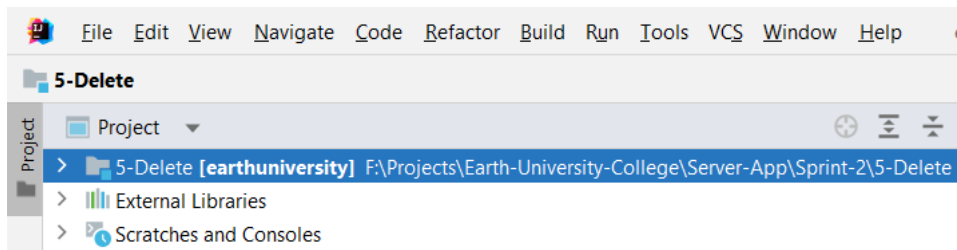
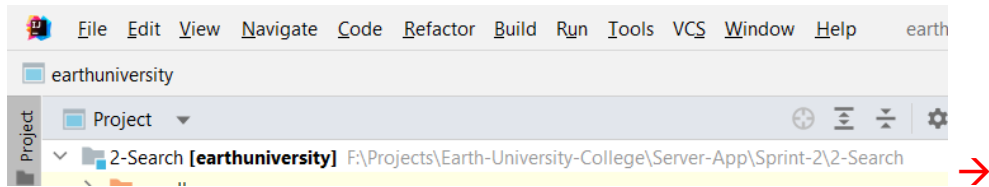
1. Backup the Server App

(a) Copy the Content from “2-Search” into “2-Delete”)

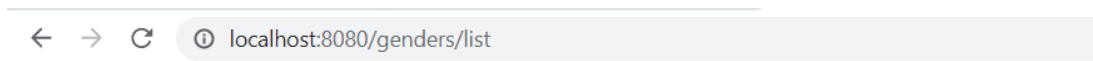


(We are going to backup only the “src” after wards, keep “2-delete” version as the working version until the end of the Sprint)

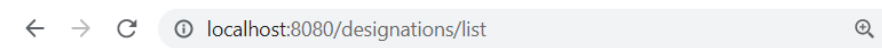
(b) Close the existing IntelliJ-IDEA project started from “2-Serach” and Opened the new Project from the “5-Delete”



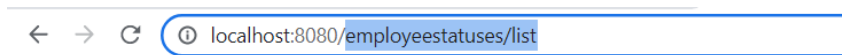
(c) Run the Server Project and Test for genders/list , designations/list, employeestatuses/list



```
[{"id":1,"name":"Male"}, {"id":2,"name":"Female "}, {"id":3,"name":"Other"}]
```



```
[{"id":1,"name":"Demonstrator L1"}, {"id":2,"name":"Assistant G1"}, {"id":3,"name":"Assistant G2"}, {"id":4,"name":"Demonstrator L2"}, {"id":5,"name":"Demonstrator L3"}]
```



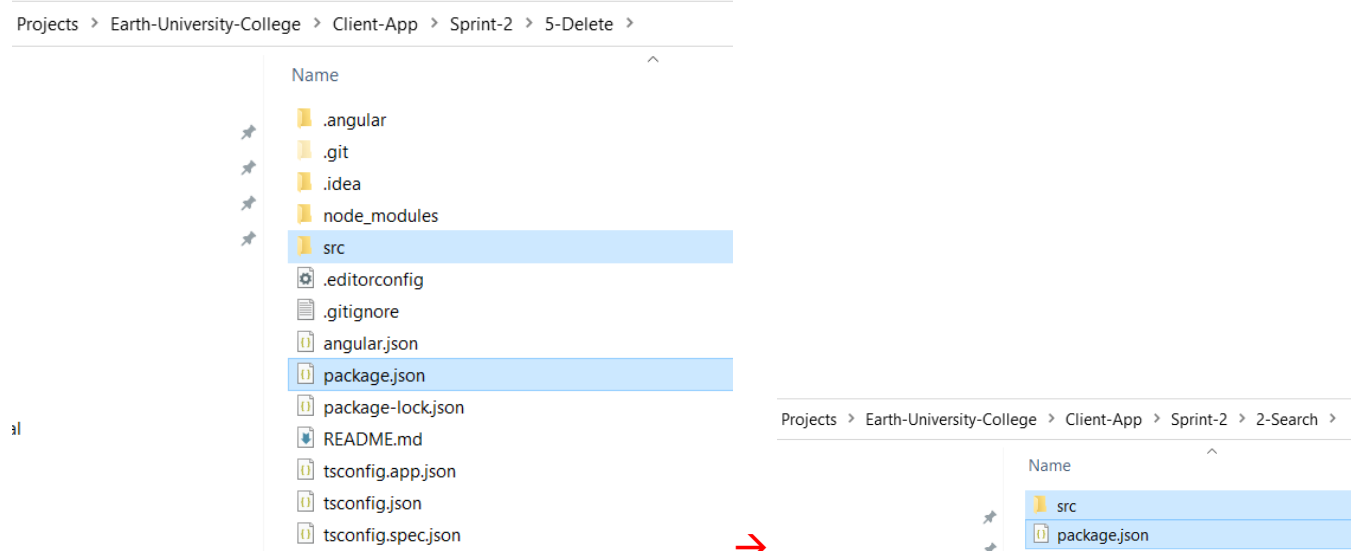
Whitelabel Error Page

This application has no explicit mapping for /error, so you are seeing this as a fallback.

Fri Apr 21 20:14:10 IST 2023

There was an unexpected error (type=Not Found, status=404).

2. Backup the Client App (copy the “src” and “package.json” into “2-Search”)



2. Prepare Supportive Data for the Insert Form

(A) Establish and Test Server Services need for Supportive Data List

- (1) genders/list
- (2) designations/list
- (3) **employeeestatus/list** (entity/dao/controller)

(B) Establish and Test for Client Services

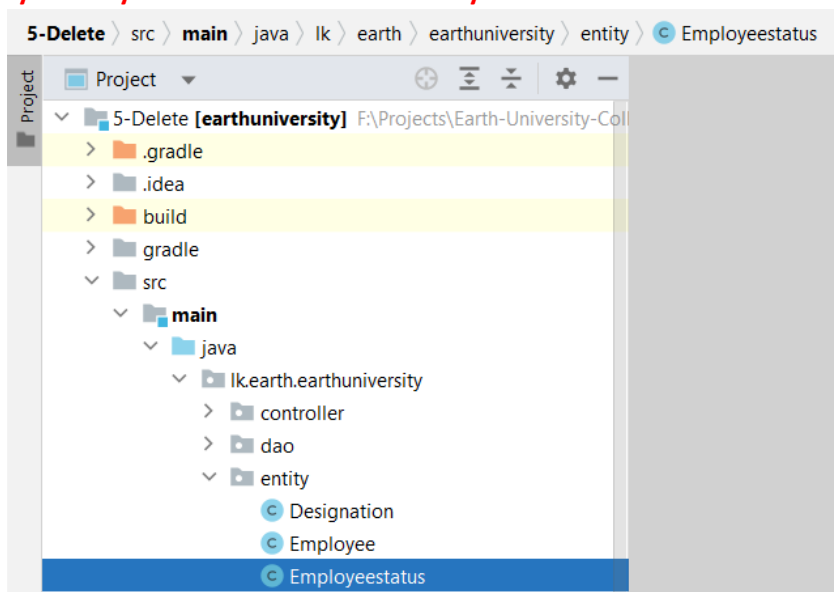
- (1) GenderService, DesignationService, **EmployeeestatusService** (entity/services)
- (2) **Test with using initialize()**

(1) Tested above

(2) Tested above

(3) **Employeeestatuses/list** ← Not available (entity/dao/controller)

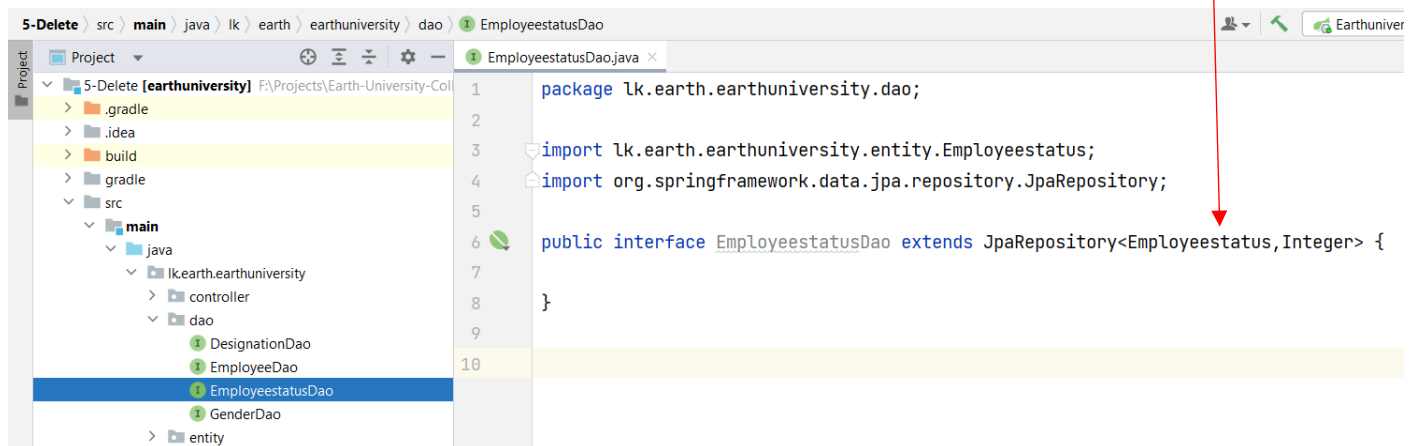
Entity Already Exists ← Auto Generated by the IDEA



Dao ← Copy “DesignationDao” and Paste the File on the “dao” folder

Replace name with “EmployeeestatusDao” instead of “DesignationDao”

Change the “Designation” with “Employeeestatus” as follows



Controller ← Copy “DesignationController” and Paste the File on the “controller” folder

Use Ctrl+R to Replace all occurrences of “Designation” with “Employeeestatus” as follows

```
5-Delete src \ main \ java \ lk \ earth \ earthuniversity \ controller \ EmployeeestatusController
EmployeeestatusController.java
Designation
Employeeestatus
Replace Replace All Exclude
18
11 import java.util.List;
12 import java.util.stream.Collectors;
13
14 @CrossOrigin
15 @RestController
16 @RequestMapping(value = "/designations")
17 public class EmployeeestatusController {
18
19     @Autowired
20     private DesignationDao designationdao;
21
22     @GetMapping(path = "/list", produces = "application/json")
23     public List<Designation> get() {
24
25         List<Designation> designations = this.designationdao.findAll();
26
27         designations = designations.stream().map(
28             designation -> { Designation d = new Designation();
29                 d.setId(designation.getId());
30                 d.setName(designation.getName());
31                 return d; }
32         ).collect(Collectors.toList());
33
34         return designations;
35     }
36 }
37
38 }
```

URL - employeeestatuses

```
EmployeeestatusController.java
18
11 import java.util.List;
12 import java.util.stream.Collectors;
13
14 @CrossOrigin
15 @RestController
16 @RequestMapping(value = "/employeeestatuses")
17 public class EmployeeestatusController {
18
19     @Autowired
20     private EmployeeestatusDao employeeestatusdao;
21
22     @GetMapping(path = "/list", produces = "application/json")
23     public List<Employeeestatus> get() {
24
25         List<Employeeestatus> employeeestatuss = this.employeeestatusdao.findAll();
26
27         employeeestatuss = employeeestatuss.stream().map(
28             employeeestatus -> { Employeeestatus d = new Employeeestatus();
29                 d.setId(employeeestatus.getId());
30                 d.setName(employeeestatus.getName());
31                 return d; }
32         ).collect(Collectors.toList());
33
34         return employeeestatuss;
35     }
36 }
37
38 }
```

Re run the Project and test the 3 listing services again

```
localhost:8080/employeestatuses/list  
[{"id":1,"name":"Active "},{ "id":2,"name":"Suspended Permannently "},{ "id":3,"name":"Suspended Temporalily "},{ "id":4,"name":"Retired "},{ "id":5,"name":"Resignated "},{ "id":6,"name":"On Leave "}]
```

```
localhost:8080/designations/list  
[{"id":1,"name":"Demonstrator L1"}, {"id":2,"name":"Assistent G1"}, {"id":3,"name":"Assistent G2"}, {"id":4,"name":"Demonstrtaor L2"}, {"id":5,"name":"Demonstrator L3"}]
```

```
localhost:8080/genders/list  
[{"id":1,"name":"Male"}, {"id":2,"name":"Female "}, {"id":3,"name":"Other"}]
```

2. Prepare Supportive Data for the Insert Form

(A) Establish and Test Server Services need for Supportive Data List

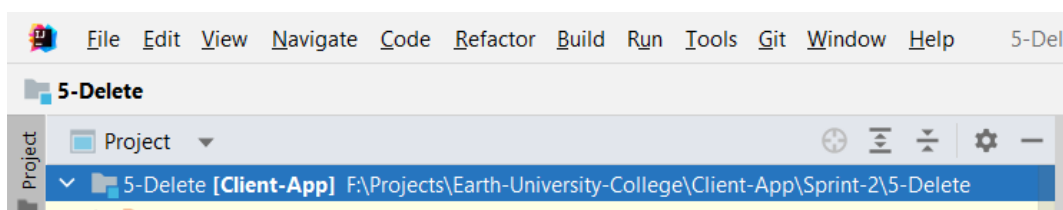
- (1) genders/list
- (2) designations/list
- (3) **employeestatus/list** (entity/dao/controller)

(B) Establish and Test for Client Services

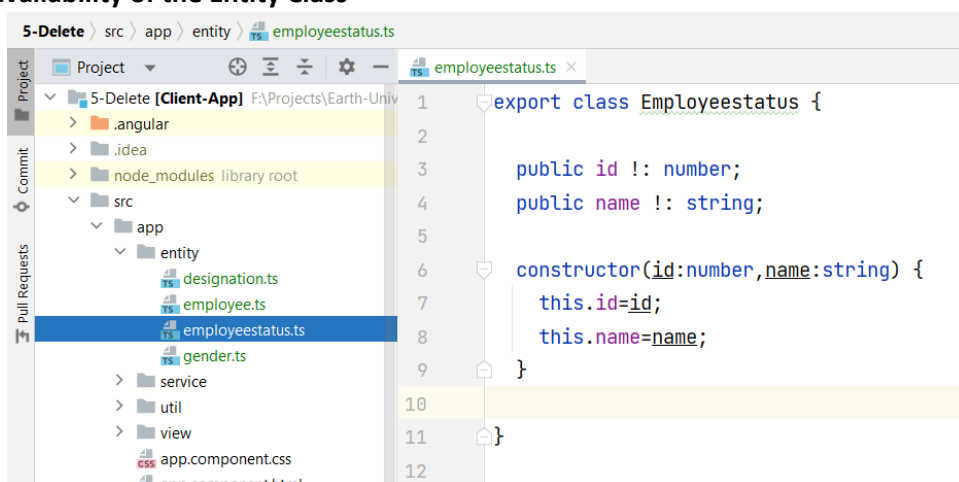
- (1) GenderService, DesignationService, **EmployeeestatusService** (entity/services)
- (2) Test with using initialize()

(1) EmployeeestatusService (entity/services)

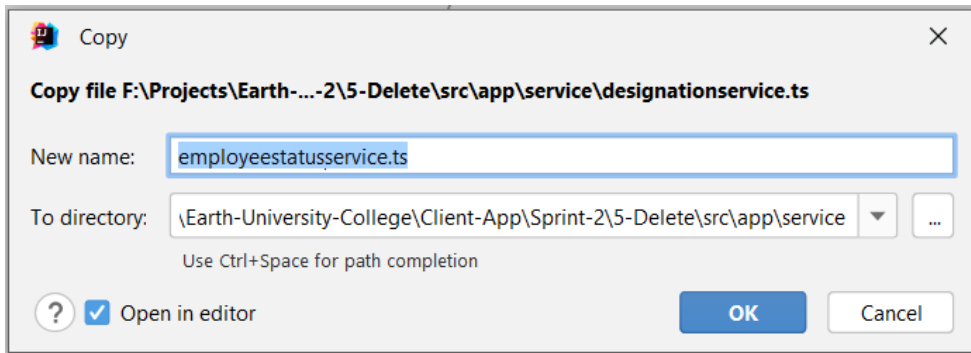
Open the Client App



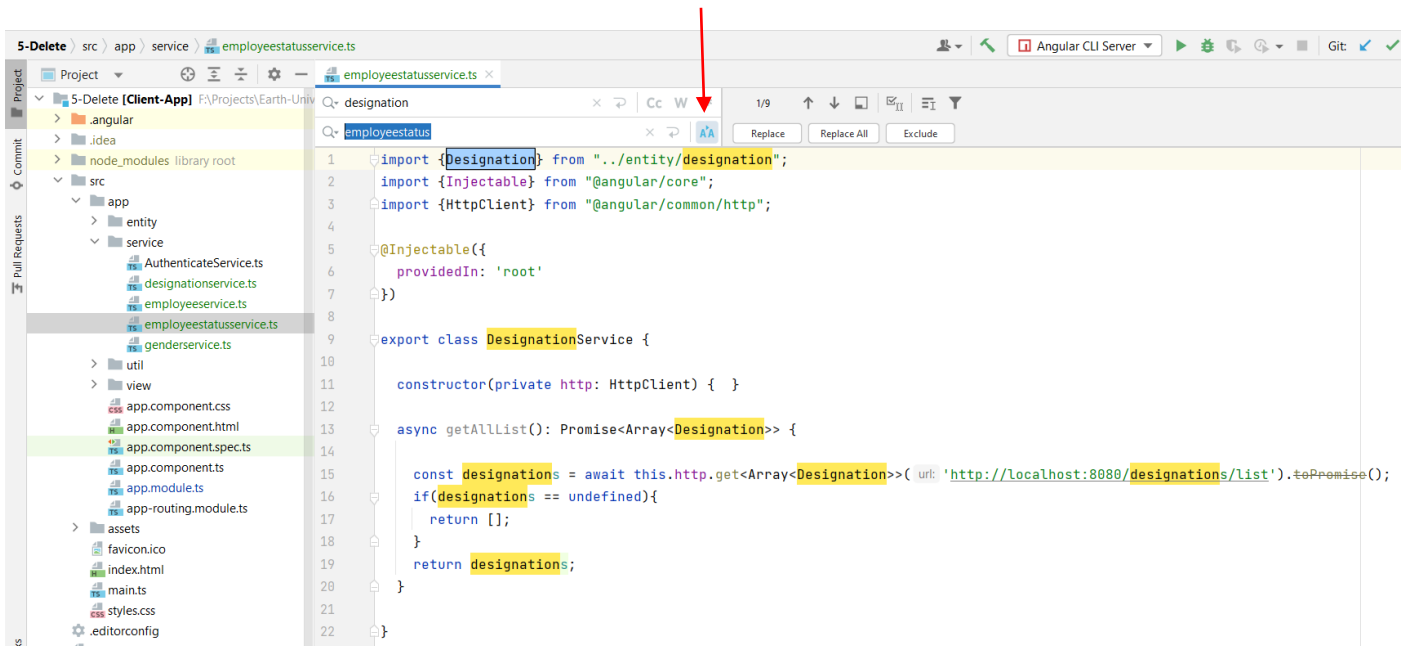
Check availability of the Entity Class



Copy the “designationservice.ts” and Paste on the “service” folder



Use Ctrl+R to replace the Name from “Designation” to “Employeeestatus” and “...statuses”



status → statuses



(2) Test with using initialize()

Create array to store Employeestatus List

Instruct to inject the EmployeestatusService into the EmployeeComponent using the constructor

```
5-Delete > src > app > view > modules > employee > employee.component.ts > EmployeeComponent > constructor()

Project
  node_modules library root
  src
    app
      entity
      service
      util
      view
        configuration
        dashboard
        home
        login
        mainwindow
        modules
          course
          employee
            employee.component.css
            employee.component.html
            employee.component.ts
        user
          app.component.css
          app.component.html
          app.component.spec.ts

43  genders: Array<Gender> = [];
44  designations: Array<Designation> = [];
45  employeestatuses: Array<Employeestatus> = [];
46
47  uiassist: UiAssist;
48
49  constructor(
50    private es: EmployeeService,
51    private gs: GenderService,
52    private ds: DesignationService,
53    private ss: EmployeestatusService,
54    private fb: FormBuilder,
55    private dg: MatDialog ) {
56
57    this.uiassist = new UiAssist(this);
58
59    this.csearch = this.fb.group( controls: {
60      "csnumber": new FormControl(),
61      "cscallingname": new FormControl(),
62    });
63  }
```

Request the service and assign data into the array and print at the Console

```
5-Delete > src > app > view > modules > employee > employee.component.ts > EmployeeComponent > initialize()

Project
  node_modules library root
  src
    app
      entity
      service
      util
      view
        configuration
        dashboard
        home
        login
        mainwindow
        modules
          course
          employee
            employee.component.css
            employee.component.html
            employee.component.ts
        user
          app.component.css
          app.component.html
          app.component.spec.ts
          app.component.ts
          app.module.ts
          app-routing.module.ts
      assets
        favicon.ico
        index.html

81
82  initialize() {
83    this.createView();
84
85    this.gs.getAllList().then((gens: Gender[]) => {
86      this.genders = gens;
87      console.log("G-" + this.genders);
88    });
89
90    this.ds.getAllList().then((dess: Designation[]) => {
91      this.designations = dess;
92      console.log("D-" + this.designations);
93    });
94
95    this.ss.getAllList().then((stes: Employeestatus[]) => {
96      this.employeestatuses = stes;
97      console.log("S-" + this.employeestatuses);
98    });
99
100    this.createSearch();
101    this.createForm();
102  }
103}
```


Run the Project → Employee Module → Look Console Outputs

The screenshot displays a web application interface on the left and the Chrome DevTools console on the right. The interface includes a user profile for 'Ashan Pathum' and a form with input fields and a dropdown menu. The DevTools console shows several messages, including a warning about a form submission being canceled. Below the console, three object inspection panels are shown, each with red arrows pointing to specific console log entries.

Console Messages:

- [webpack-dev-server] Server started: Hot Module Replacement disabled, Live Reloading enabled, Progress disabled, Overlay enabled. `index.js:551`
- Angular is running in development mode. Call `enableProdMode()` to enable production mode. `core.mjs:23583`
- ⚠ Form submission canceled because the form is not connected `home:1`
- G-[object Object],[object Object],[object Object] `employee.component.ts:87`
- D-[object Object],[object Object],[object Object],[object Object] `employee.component.ts:92`
- S-[object Object],[object Object],[object Object],[object Object] `employee.component.ts:97`
- ⚠ DevTools failed to load source map: Could not load content for `chrome-extension://fheoggkfdfchfphceeifdbepaooicaho/sourceMap/chrome/scripts/iframe_form_check.js.map`: System error: net::ERR_BLOCKED_BY_CLIENT
- ⚠ DevTools failed to load source map: Could not load content for `chrome-extension://fheoggkfdfchfphceeifdbepaooicaho/sourceMap/chrome/scripts/iframe_form_detection.js.map`: System error: net::ERR_BLOCKED_BY_CLIENT

Object Inspection Panels:

- 6 Objects**
URL: `localhost:8080/employeeestatuses/list`
Data: `[{"id":1,"name":"Active "}, {"id":2,"name":"Suspended Permanently "}, {"id":3,"name":"Suspended Temporarily "}, {"id":4,"name":"Retired "}, {"id":5,"name":"Resigned "}, {"id":6,"name":"On Leave "}]`
- 5 Objects**
URL: `localhost:8080/designations/list`
Data: `[{"id":1,"name":"Demonstrator L1"}, {"id":2,"name":"Assistant G1"}, {"id":3,"name":"Assistant G2"}, {"id":4,"name":"Demonstrator L2"}, {"id":5,"name":"Demonstrator L3"}]`
- 3 Objects**
URL: `localhost:8080/genders/list`
Data: `[{"id":1,"name":"Male"}, {"id":2,"name":"Female "}, {"id":3,"name":"Other"}]`