If you do not pay any relevent course fee to maintain Earth University BIT platform, Be ethical enough to contribute while you are using our Academic Contents

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)

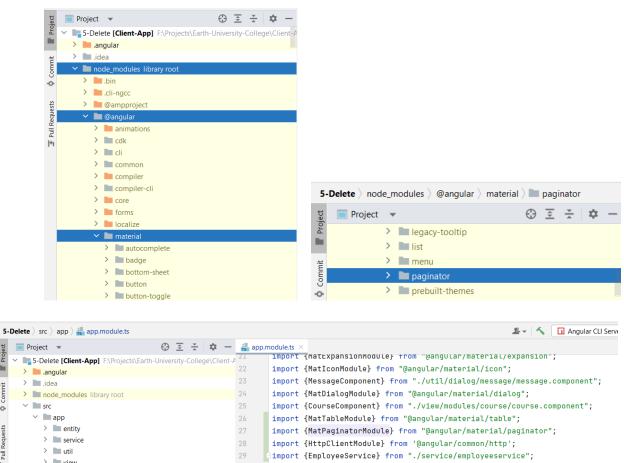
- 1. Client App Preparation for Sprint-2
- 2. UI Preparation with Static Data & Testing
- 3. Coding Entity Classes
- 4. Data Loading with Dynamic Data & Testing
- 5. Coding Service Classes for Dynamic Data & Testing (With & Without DI)
- 6. Error Correction Server App Employee Data Service
- 7. Data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

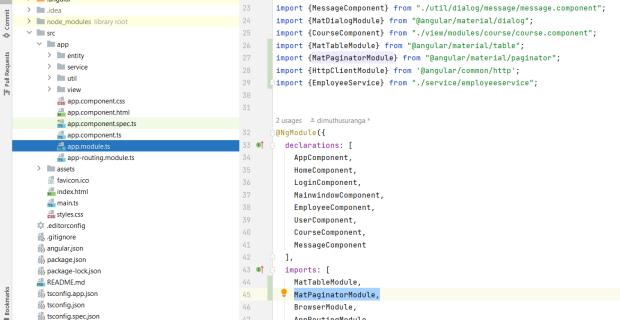
Version-2 (Server Pagination)

.______

Client Pagination

1. Import Mat-Pagination Module from the downloaded dependent libraries in "node-modules"





2. Expected output with pagination

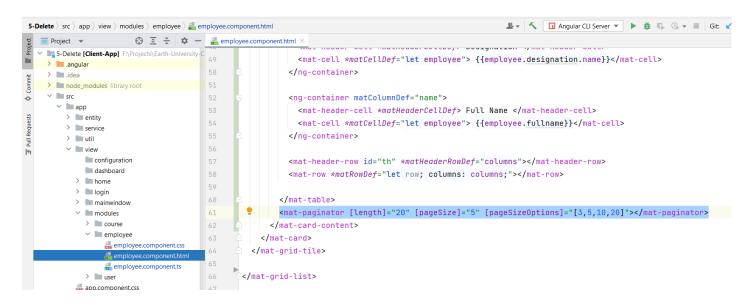


3. Change the HTML as follows

Name of the data source changed to "data" ("employees" → "data")



Add <mat-paginator> Component Directive as follows



4. Change the CSS as follows

If you need, you can target <mat-paginator> and its decedents for styling

```
5-Delete \rangle src \rangle app \rangle view \rangle modules \rangle employee \rangle employee.component.css
                                                                                                                  ■ Project ▼
                        ✓ ■ 5-Delete [Client-App] F:\Projects\Earth-University
                                          1
                                                  mat-card {
   > 📄 .angular
                                                    width: 100%;
     > 🖿 .idea
    > node_modules library root
                                                    height:100%;
0

✓ Image: Src.

                                          4
                                                    margin: 10px 10px -10px 10px;
       5
                                                  1}
         > entity
Pull Requests
         > service
                                          6
         > util
                                          7
                                                   mat-card-content {

✓ Image view

                                                     overflow: auto;
                                          8
              configuration
                                                   height: 100%;
                                          9
              dashboard
           > home
                                         10
           > login
           > mainwindow

✓ Image modules

                                                  mat-card-header {
              > course
                                         13
                                                    background: #c0d9c3;
              employee
                  amployee.component.html
                  == employee.component.ts
                                                  #loading img{ width: 30px; height: 30px; margin-left: 200px;}
              > 🖿 user
                                         17
            app.component.css
            app.component.html
```

5. Change the TS as follows

```
5-Delete \rangle src \rangle app \rangle view \rangle modules \rangle employee \rangle employee.component.ts
                                                                                                    Project ▼ ⊕ ₹ ⊅ − # employee.component.ts
  ✓ I 5-Delete [Client-App] F:\Pro
  > 🗎 .angular
                                           export class EmployeeComponent {
   > 🖿 .idea
   > node_modules library root
                                             columns: string[] = ['number','callingname','gender', 'designation' , 'name'];

∨ Imapp

       > entity
> service
                                             employees: Array<Employee>= [];

∨ Im view

                                    18
                                             imageurl: string = '';
           configuration
           dashboard
         > home
                                             data!: MatTableDataSource<Employee>;
         > 🖿 login
         > mainwindow
                                             @ViewChild(MatPaginator) paginator!: MatPaginator;
          ∨ modules
           > course
                                             no usages new

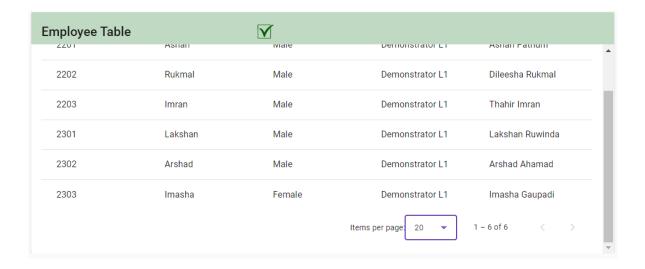
∨ ■ employee

             employee.component.css
                                             constructor(private es:EmployeeService) {
                                               this.imageurl='assets/pending.gif';
            > 🗎 user
          app.component.css
                                               this.es.getAll() Promise < Employee[] >
          app.component.html
                                                 .then( (emps: Employee[]) => { this.employees=emps; this.imageurl='assets/fullfilled.png'; } ) Promise<void>
         app.component.spec.ts
          app.component.ts
                                                 .finally( onfinally: ()=> { this.data = new MatTableDataSource(this.employees); this.data.paginator=this.paginator; });
          app-routing.module.ts
                                             }
        favicon.ico
        index.html
        amain.ts
```

6. Testing with different sizes

Number	Calling Name	Gender	Designation	Full Name
2201	Ashan	Male	Demonstrator L1	Ashan Pathum
2202	Rukmal	Male	Demonstrator L1	Dileesha Rukmal
2203	Imran	Male	Demonstrator L1	Thahir Imran
			Items per page: 3 ▼	1 - 3 of 6

mployee Table		\checkmark			
Number	Calling Name	Gender	Designation	Full Name	
2201	Ashan	Male	Demonstrator L1	Ashan Pathum	
2202	Rukmal	Male	Demonstrator L1	Dileesha Rukmal	
2203	Imran	Male	Demonstrator L1	Thahir Imran	
2301	Lakshan	Male	Demonstrator L1	Lakshan Ruwinda	
2302	Arshad	Male	Demonstrator L1	Arshad Ahamad	
			Items per page: 5	1 - 5 of 6	



7. Discussion

Discuss the importance of "over-flow: auto" in the above codes Observe the output of the table data, when "over-flow: auto" changed to "over-flow: visible".

If you need to change the height of the card-content depending on the height of the table under each per-page count instead of showing scroll-bar,

What are the alternate approaches you can achieve this goal.

Explain how the following codes affect the above achievements

```
<mat-grid-tile [colspan]="4" [rowspan]="10">  Form 
<mat-grid-tile [colspan]="8" [rowspan]="4">  Search 
<mat-grid-tile [colspan]="8" [rowspan]="6">  Table
```

Try to explain following code lines...

```
(1) data!: MatTableDataSource<Employee>;
(2) @ViewChild(MatPaginator) paginator!: MatPaginator;
(3)    .finally( () => { } )
(4)    this.data = new MatTableDataSource(this.employees);
(5)    this.data.paginator=this.paginator;
```

Department of Information Technology Earth University College