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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

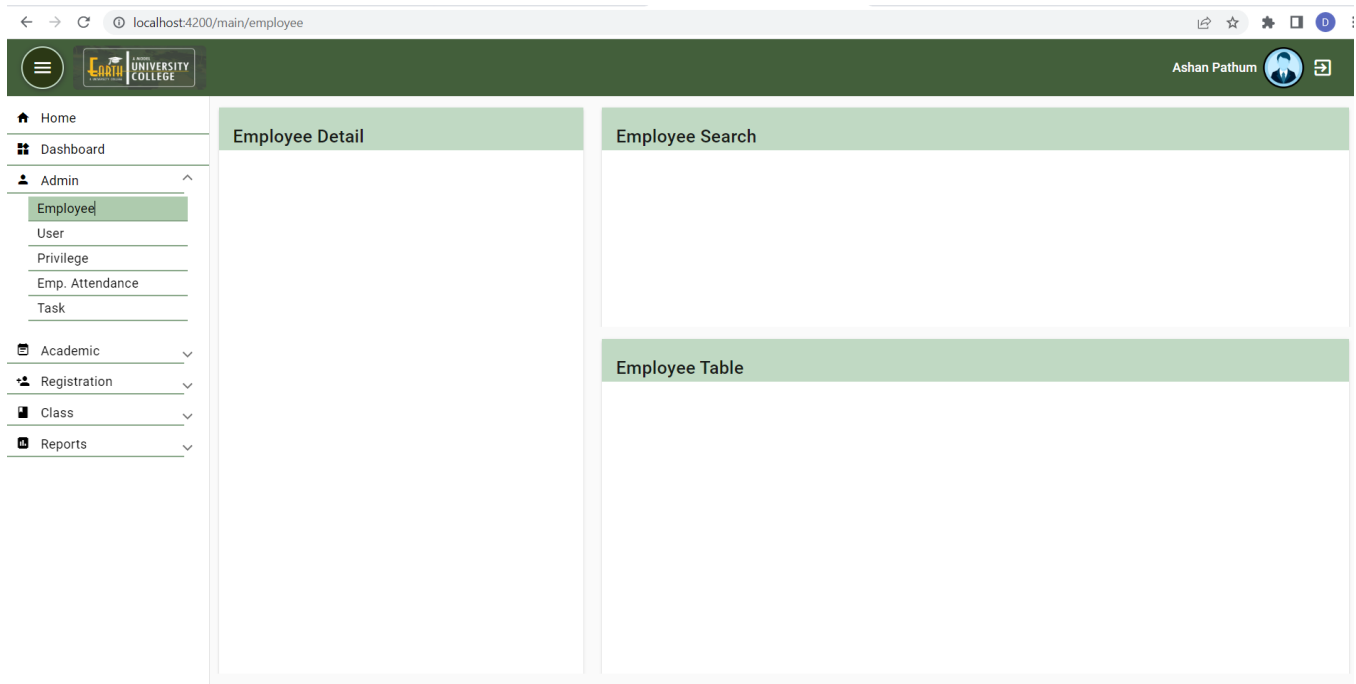
### 2(e) Employee Update

### 2(f) Employee Delete

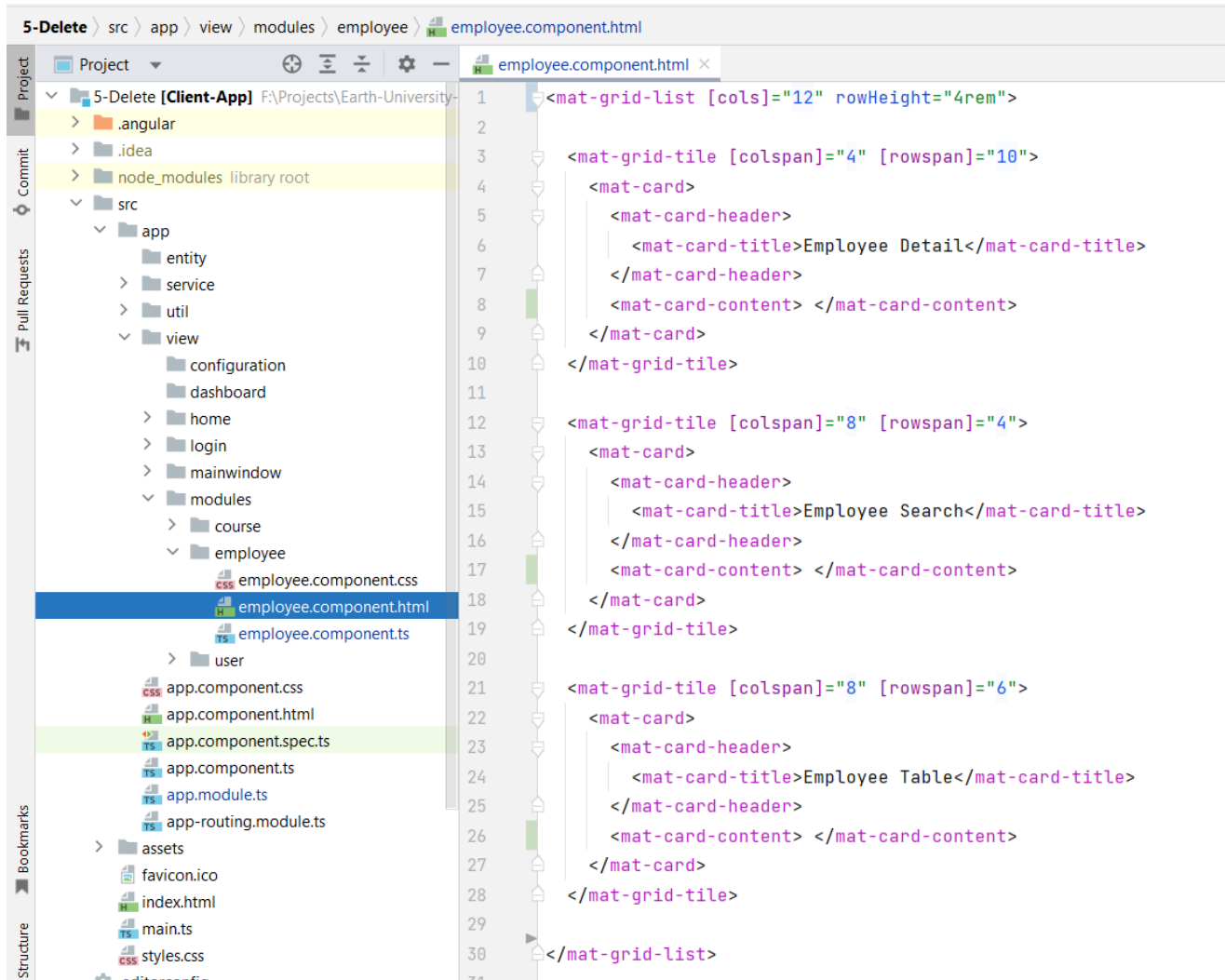
### 2(b) Employee View

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
    6. Data loading from Server & Testing
    7. Entity Auto generating & Testing
  - Version-2 (Server Pagination)**

1. Open the "Employee-UI" using the Navigation and Observe its Content  
Employee UI contains 3 logical sections to support following 3 User Requirements,
  1. Employee Table → View, Paginate, Client-Search
  2. Employee Search → Server-Search
  3. Employee Form → Insert New, View All Details, Update & Delete

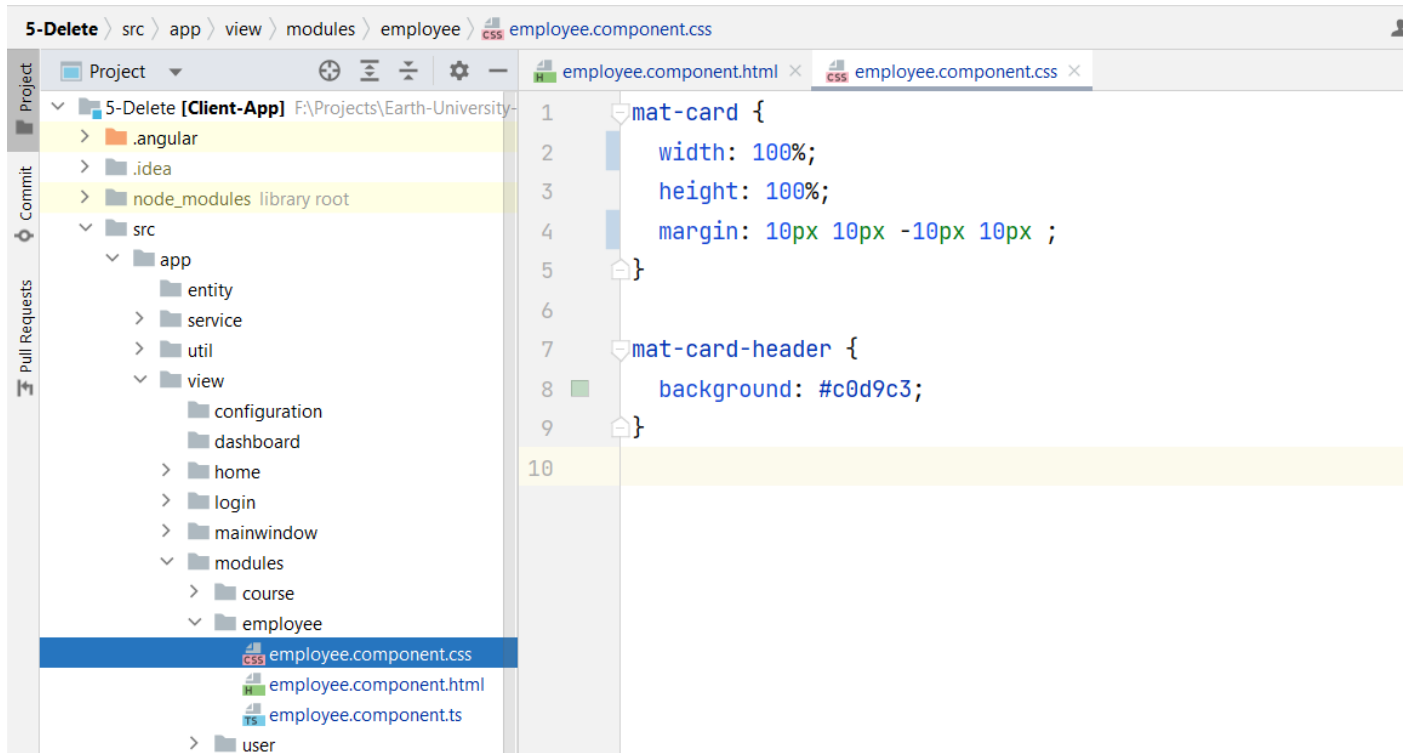


2. Discuss the Skeleton Code of the Employee HTML (You can change this at the end of the Sprint-2 as you wish)



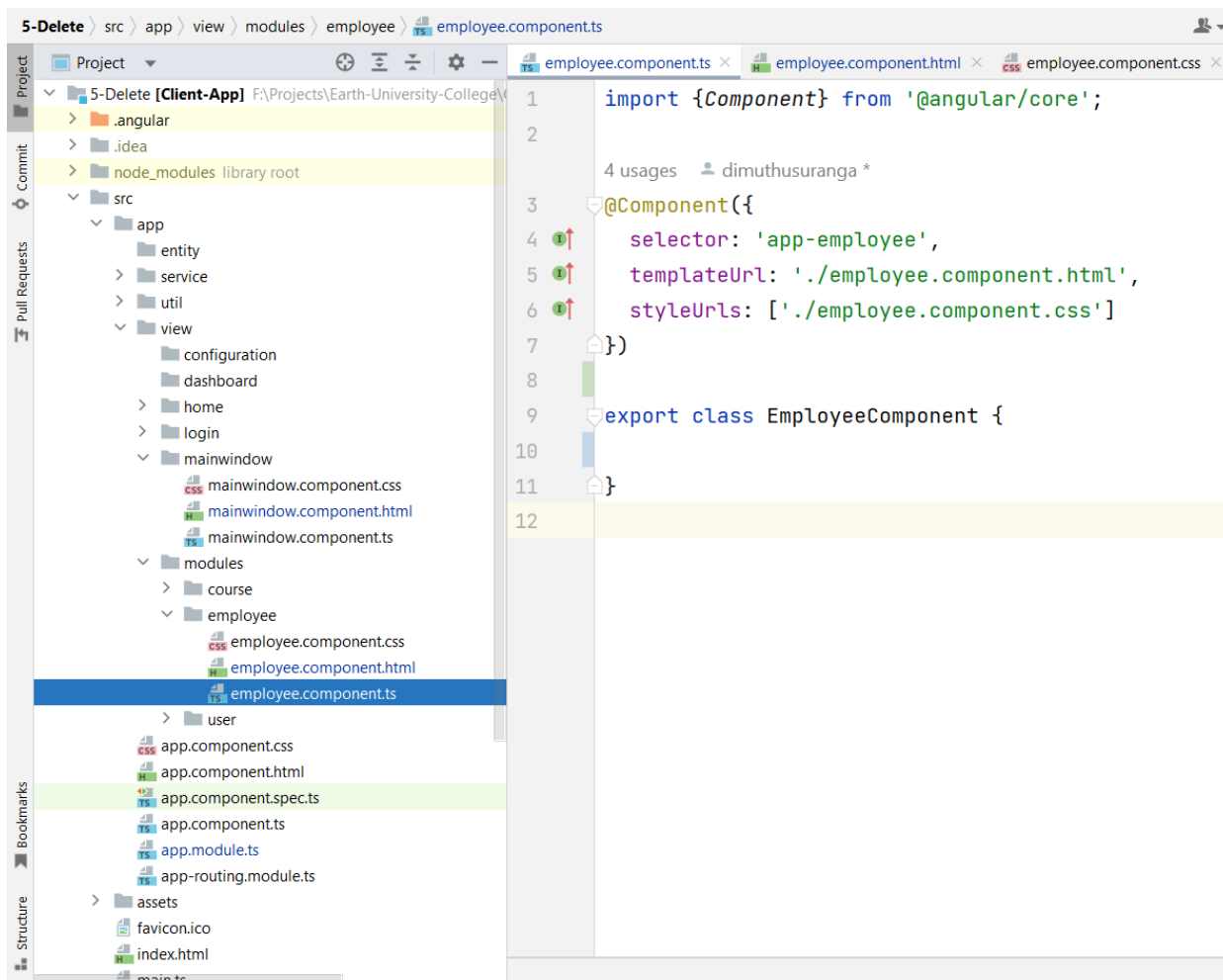
### 3. Discuss the Style and Layout Codes of the Employee CSS

You can do any layout and beatifying changes using this file later in the Sprint-2 as you wish for your own project  
With our Code-Helpers by requesting in “Final Coding Support WhatsApp Group”



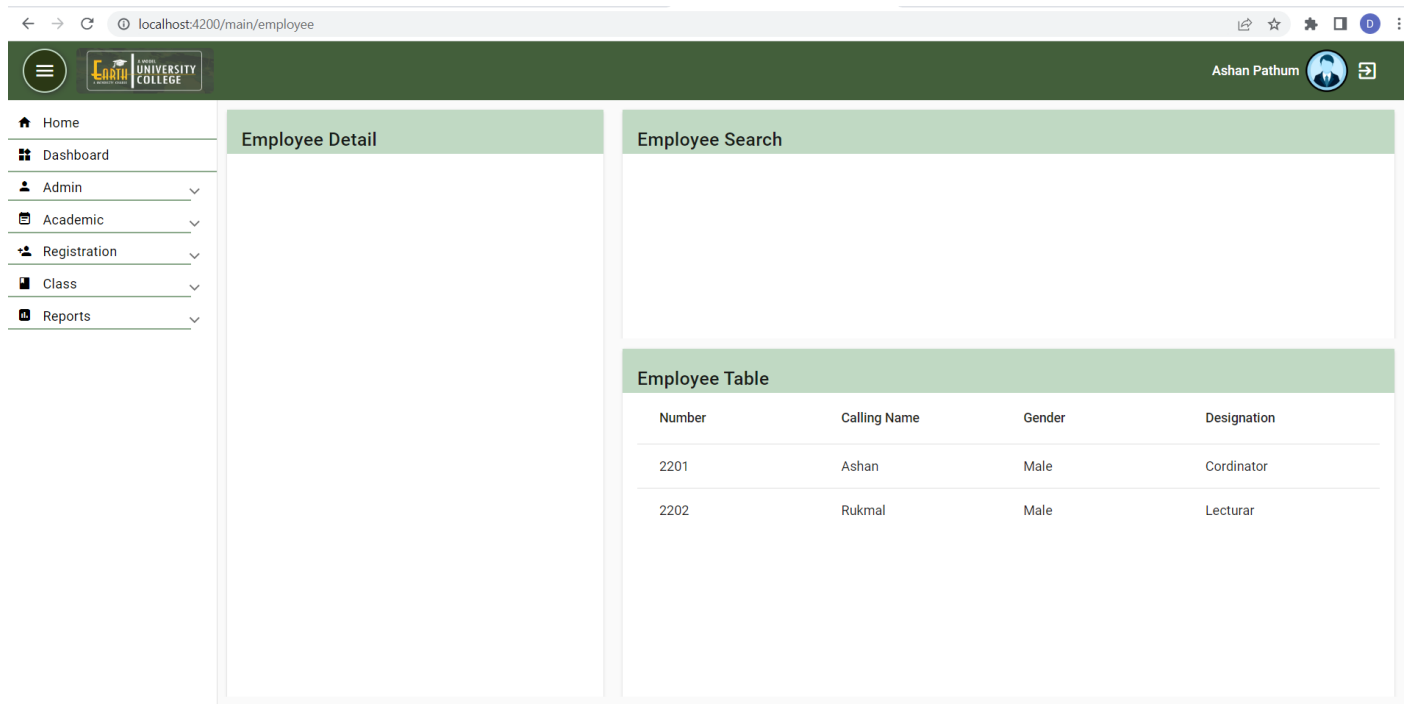
```
5-Delete > src > app > view > modules > employee > employee.component.css
Project
  5-Delete [Client-App] F:\Projects\Earth-University-College\
  > .angular
  > .idea
  > node_modules library root
  > src
    > app
      > entity
      > service
      > util
      > view
        > configuration
        > dashboard
        > home
        > login
        > mainwindow
        > modules
          > course
          > employee
            > employee.component.css
            > employee.component.html
            > employee.component.ts
        > user
Commit
Pull Requests
1 mat-card {
2     width: 100%;
3     height: 100%;
4     margin: 10px 10px -10px 10px ;
5 }
6
7 mat-card-header {
8     background: #c0d9c3;
9 }
10
```

### 4. Discuss the Dynamic Binding and UI-Controlling with EmployeeComponnet.ts in “employee-components.ts”



```
5-Delete > src > app > view > modules > employee > employee.components.ts
Project
  5-Delete [Client-App] F:\Projects\Earth-University-College\
  > .angular
  > .idea
  > node_modules library root
  > src
    > app
      > entity
      > service
      > util
      > view
        > configuration
        > dashboard
        > home
        > login
        > mainwindow
          > mainwindow.component.css
          > mainwindow.component.html
          > mainwindow.component.ts
        > modules
          > course
          > employee
            > employee.component.css
            > employee.component.html
            > employee.components.ts
        > user
        > app.component.css
        > app.component.html
        > app.components.spec.ts
        > app.component.ts
        > app.module.ts
        > app-routing.module.ts
    > assets
      > favicon.ico
      > index.html
      > main.ts
Commit
Pull Requests
Bookmarks
Structure
1 import {Component} from '@angular/core';
2
3 4 usages dimuthusuranga *
4 @Component({
5     selector: 'app-employee',
6     templateUrl: './employee.component.html',
7     styleUrls: ['./employee.component.css']
8 })
9 export class EmployeeComponent {
10
11 }
12
```

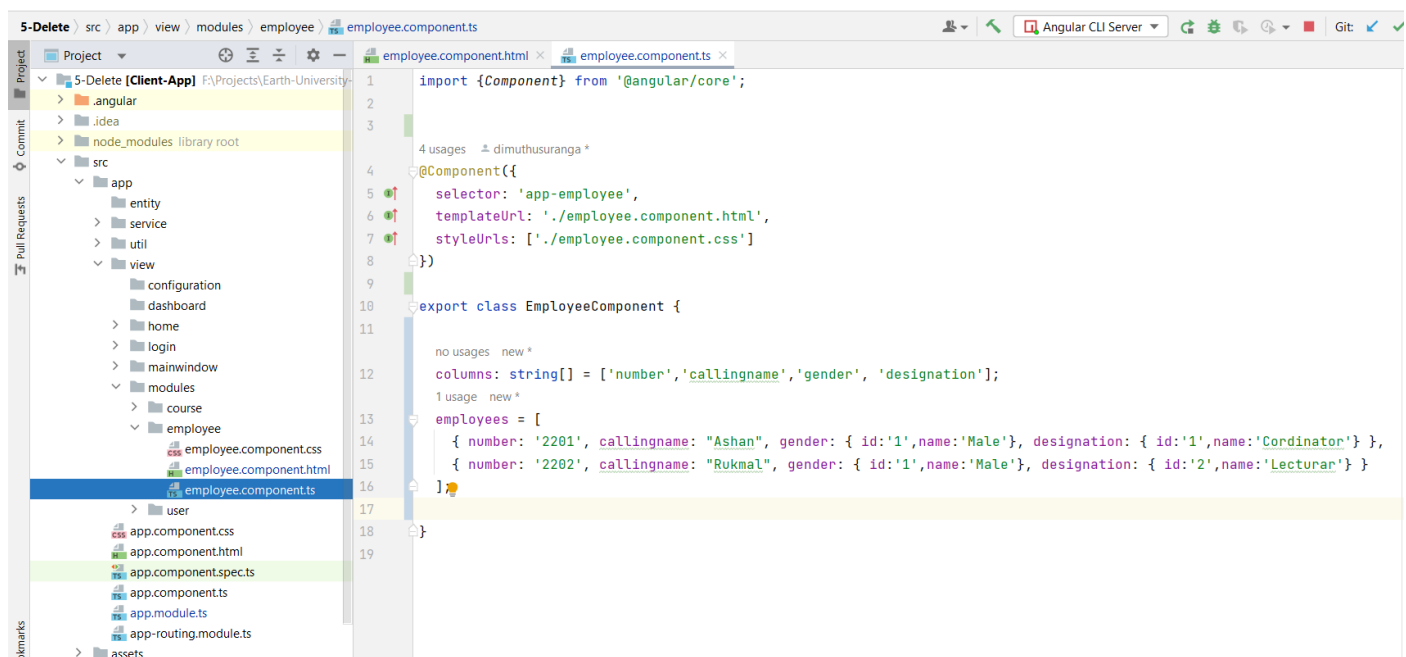
## 5. Create Table with Static Sample Data within UI



1. EmployeeComponent.ts – employee-component.ts  
(Columns and Data Rows to be displayed)
2. EmployeeUi.html – employee-component.html  
(Table Column/Row Skeleton and Binding Codes)

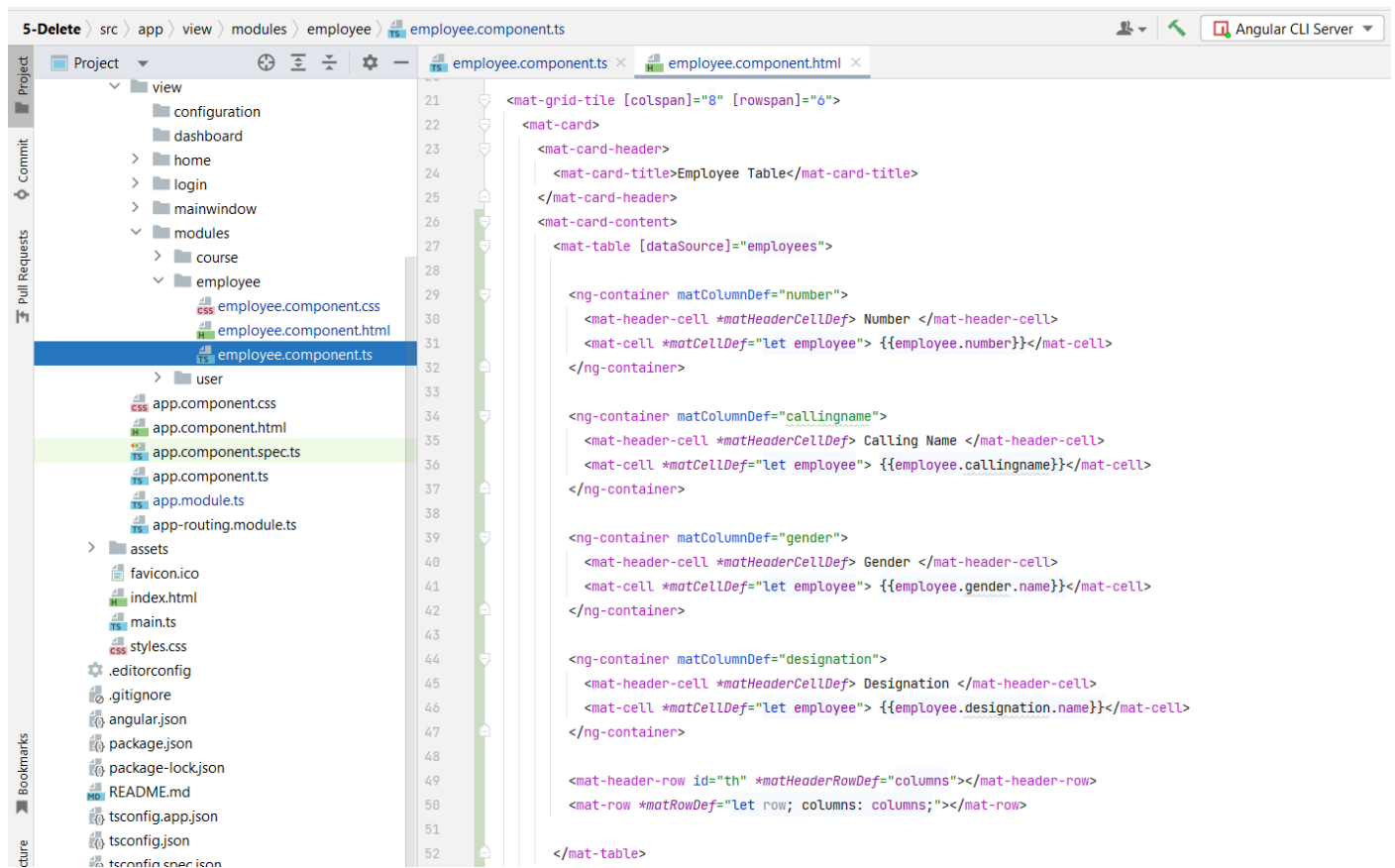
### (1) EmployeeComponent.ts – employee-component.ts (Column Names and Data Rows to be displayed)

Create Column Names for the Table Content (These are variable names, not what is displayed)  
Create set of data to be displayed as an array of objects.



## (2) EmployeeUi.html – employee-component.html (Table Column/Row Skeleton and Binding Codes)

Create column Definitions with Column Binding, Title to be displayed and the Data Binding with Cells  
Create Header Row and Data Row definition of the Table

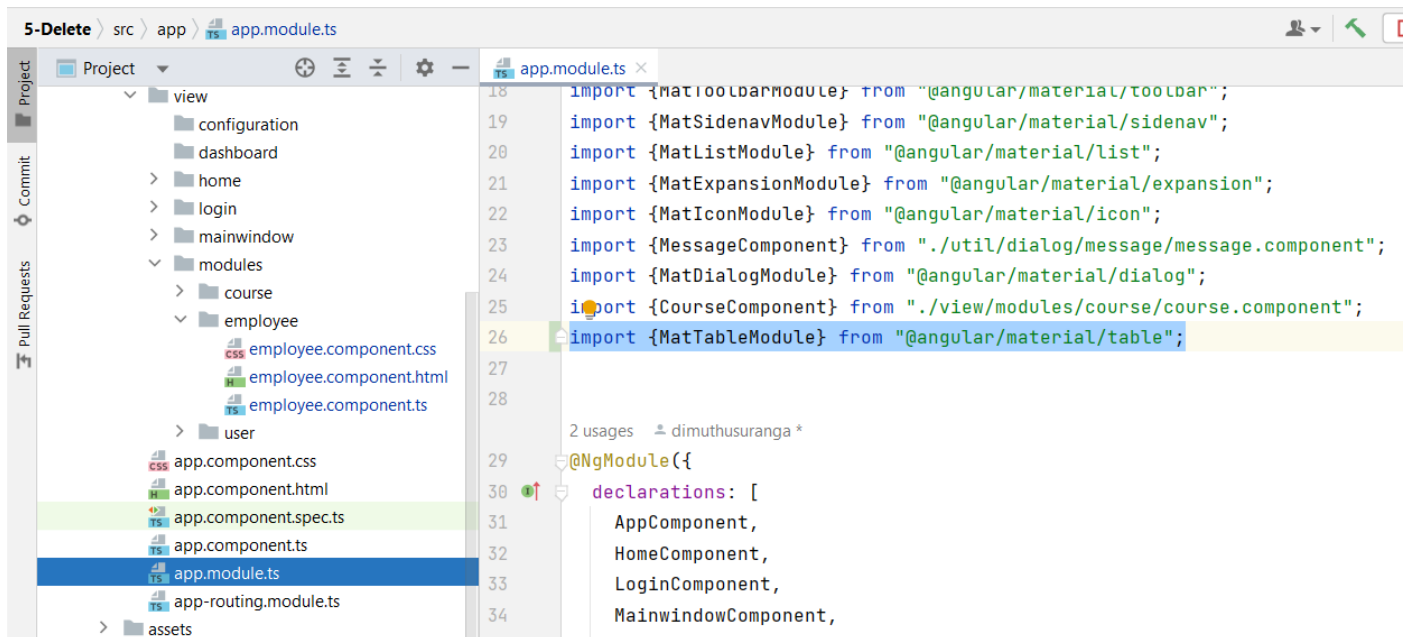


```
5-Delete > src > app > view > modules > employee > employee.component.html
Project view
  configuration
  dashboard
  home
  login
  mainwindow
  modules
    course
    employee
      employee.component.css
      employee.component.html
      employee.component.ts
  user
    app.component.css
    app.component.html
    app.component.spec.ts
    app.component.ts
    app.module.ts
    app-routing.module.ts
  assets
    favicon.ico
    index.html
    main.ts
    styles.css
  .editorconfig
  .gitignore
  angular.json
  package.json
  package-lock.json
  README.md
  tsconfig.app.json
  tsconfig.json
  tsconfig.spec.json

21 <mat-grid-tile [colspan]="8" [rowspan]="6">
22 <mat-card>
23   <mat-card-header>
24     <mat-card-title>Employee Table</mat-card-title>
25   </mat-card-header>
26   <mat-card-content>
27     <mat-table [dataSource]="employees">
28
29       <ng-container matColumnDef="number">
30         <mat-header-cell *matHeaderCellDef> Number </mat-header-cell>
31         <mat-cell *matCellDef="let employee"> {{employee.number}}</mat-cell>
32       </ng-container>
33
34       <ng-container matColumnDef="callingname">
35         <mat-header-cell *matHeaderCellDef> Calling Name </mat-header-cell>
36         <mat-cell *matCellDef="let employee"> {{employee.callingname}}</mat-cell>
37       </ng-container>
38
39       <ng-container matColumnDef="gender">
40         <mat-header-cell *matHeaderCellDef> Gender </mat-header-cell>
41         <mat-cell *matCellDef="let employee"> {{employee.gender.name}}</mat-cell>
42       </ng-container>
43
44       <ng-container matColumnDef="designation">
45         <mat-header-cell *matHeaderCellDef> Designation </mat-header-cell>
46         <mat-cell *matCellDef="let employee"> {{employee.designation.name}}</mat-cell>
47       </ng-container>
48
49       <mat-header-row id="th" *matHeaderRowDef="columns"></mat-header-row>
50       <mat-row *matRowDef="let row; columns: columns;"></mat-row>
51
52     </mat-table>
```

You need to Import “MatTableModule” from the downloaded libraries in “node\_modules” to build the table specified with the directive “<mat-table>”

→ This will be automatically import in “app.module.ts”



```
5-Delete > src > app > app.module.ts
Project 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

18 import {MatToolbarModule} from "@angular/material/toolbar";
19 import {MatSidenavModule} from "@angular/material/sidenav";
20 import {MatListModule} from "@angular/material/list";
21 import {MatExpansionModule} from "@angular/material/expansion";
22 import {MatIconModule} from "@angular/material/icon";
23 import {MessageComponent} from "../util/dialog/message/message.component";
24 import {MatDialogModule} from "@angular/material/dialog";
25 import {CourseComponent} from "../view/modules/course/course.component";
26 import {MatTableModule} from "@angular/material/table";
27
28
29 @NgModule({
30   declarations: [
31     AppComponent,
32     HomeComponent,
33     LoginComponent,
34     MainwindowComponent,
```

5-Delete > src > app > app.module.ts

Project

- 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
  - main.ts
  - styles.css
- .editorconfig
- .gitignore
- angular.json

app.module.ts

```
38 MessageComponent
39 ],
40 imports: [
41   BrowserModule,
42   AppRoutingModule,
43   BrowserAnimationsModule,
44   MatGridListModule,
45   MatCardModule,
46   ReactiveFormsModule,
47   MatFormFieldModule,
48   MatButtonModule,
49   MatInputModule,
50   MatToolbarModule,
51   MatSidenavModule,
52   MatListModule,
53   MatExpansionModule,
54   MatIconModule,
55   MatDialogModule,
56   MatTableModule
57 ],
58 providers: [],
59 bootstrap: [AppComponent]
60 })
61 export class AppModule {
62 }
```