

# National Institute of Technology Karnataka, Surathkal

Department of Information Technology



Assignment Report on CRUD application

## IT254-Web Technology and Applications

Submitted by-  
Prasad Jagtap(181IT134)

*Under the guidance of*

**Ms. Priyadarshini**  
**Dept of IT, NITK Surathkal**

Date of Submission  
June 17<sup>th</sup>, 2020

I have created an app of Employee appraisal which do the CRUD procedures.

Technologies Used:

1. Front End : Angular
2. Back End : NodeJS
3. Database : MongoDB

MVC structure has been used in this building of the CRUD app.

To store the databases and for calling the functions model is used.

The view part is used to present the data to the users.

I have used Bootstrap and CSS to change the attributes, which ensures the Responsiveness.

## **Working:**

Backend:

Node.js runs the server.js file which first sets up the connection to the database via Mongoose by connecting to the MongoDB database named 'employees' which is running (Listening) at the port 27017. The database stores the appraisal data in records of type 'Employee' which consists of four fields - name (of type String), position (of type String), department (of type string )

Frontend:

An Angular-app named 'Employee' has been made that holds an Employee class that has methods defined to send GET, POST, PUT and DELETE requests to the Node.js server at the port 3000 (Since the FrontEnd server is running on port 4200).

## Screenshots:

1. Currently the database is empty so first value in the database is inserted using **insertOne()** method:

```
C:\Windows\System32\cmd.exe - mongo
>
>
>
> show dbs
Student    0.000GB
admin      0.000GB
config     0.000GB
employees  0.000GB
local      0.000GB
test       0.000GB
>
> use employees
switched to db employees
> db.employees.find()
>
> db.employees.insertOne({name:"A",position:"Manager",department:"Sales",salary:25000})
{
  "acknowledged" : true,
  "insertedId" : ObjectId("5eea0b2a1cde76593e13005f")
}
>
-
```

Fig.1 Status of database and insertion

2. Result in app due addition of value in the database:

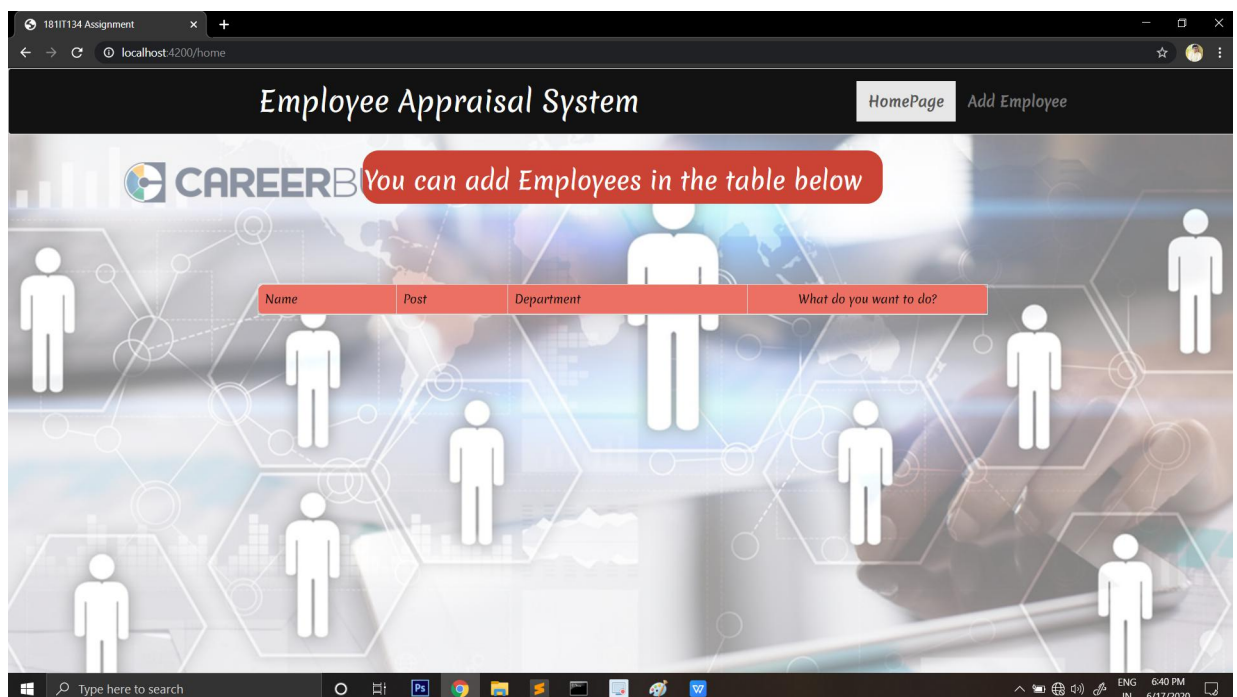


Fig.2 Before insertion

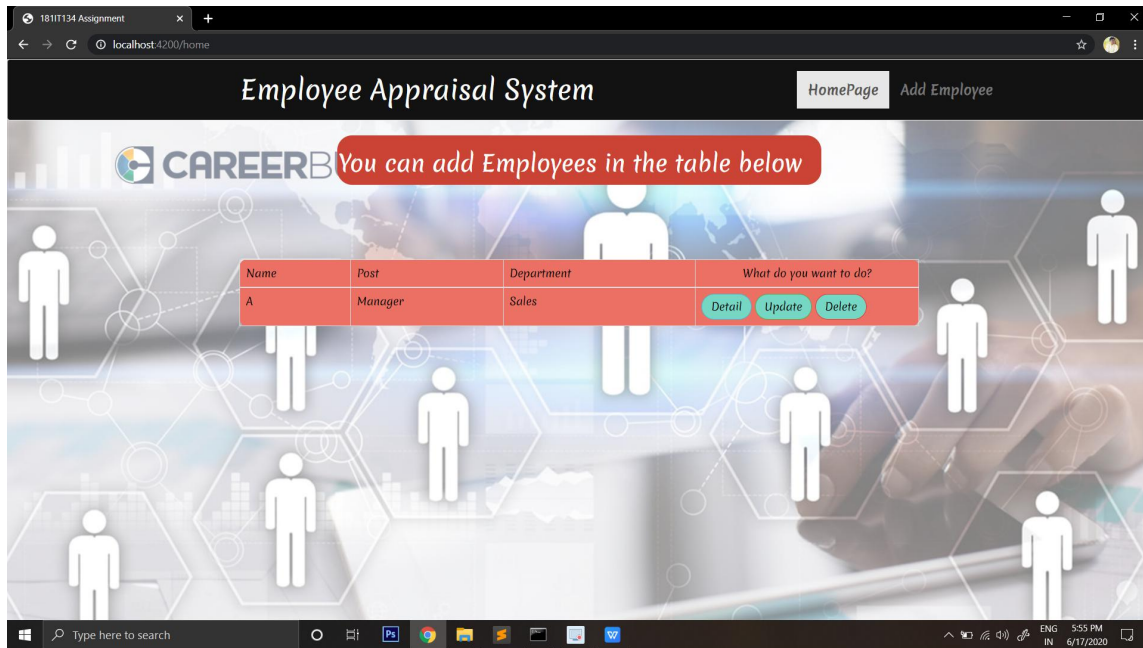


Fig.3 After insertion of First value.

### 3. Adding information about new employee:

The screenshot shows the 'Employee Appraisal System' homepage with the 'Add Employee' button highlighted. An 'Employee Entry Form' modal is open, containing the following fields:

- Name : a
- Post : ssa
- Department : E
- Salary : 25000

At the bottom of the form are 'Save' and 'Cancel' buttons. The browser address bar shows 'localhost:4200/add'.

Fig.4 Inserting on app

#### 4. Updation:

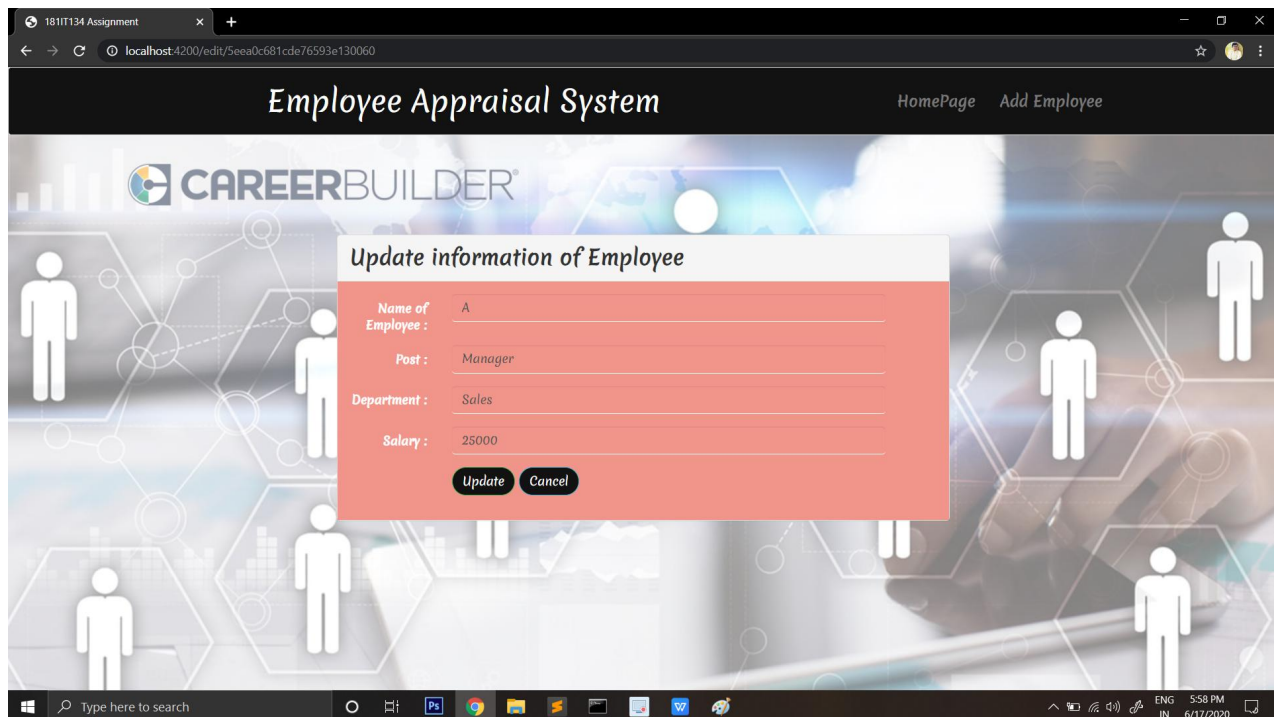


Fig.5 Updating the info of any employee

#### 5. Details checking :



Fig.5 Checking the details of the employee present in the database