**EBF**

***Employee Storage Service***

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# System Overview

We’re building an employee storage service for companies. A company admin needs to be able to do the following:

* create employee records for company
* view them in a list and detail view for company
* update the employee records and delete them for company
* find the average salary for the company

Your task is to build the backend for this service. It should be a REST API that exposes the required endpoints. The company data can either be autogenerated or configurable or dynamically created (up to you).

Nice to haves:

* Build a frontend for the REST API
* Use JVM based technologies

Data definitions:

* Employee model
  + Name
  + Surname
  + Email
  + Address
  + Salary
  + Company ID
* Company Model
  + Name

Deliver: A publicly available git repository with a README.md that explains how to compile, build and start the project

# Test Cases

## **Employees**

|  |  |  |
| --- | --- | --- |
|  | **/api/allEmployees** | |
| Trigger | Frontend trigger (home page loaded) | |
| Normal Flow | 1. User navigates to webpage 2. /api/getAllEmployees gets called 3. returns all employees | |
| Expected Result | List of employee objects returned | |
| Actual Result | List of employee objects returned | |
|  | **/api/getEmployee** | |
| Trigger | User wants to update employee from frontend | |
| Normal Flow | 1. User clicks to update employee 2. /api/getEmployee gets called based on employee 3. Corresponding employee info is fetched 4. All details linked to employee is shown | |
| Expected Result | All details linked to employee is shown | |
| Actual Result | All details linked to employee is shown | |
|  | | **/api/addEmployee** |
| Trigger | | User adds employee from frontend |
| Normal Flow | | 1. User submits employee info in form 2. /api/addEmployee called with employee info 3. Data is validated 4. Valid employee inserted into database |
| Expected Result | | Valid employee inserted into database |
| Actual Result | | Valid employee inserted into database |
|  | | **/api/updateEmployee** |
| Trigger | | User updates employee from the frontend |
| 1. Normal Flow | | 1. User submits new employee information on form 2. /api/updateEmployee called to update the Employee’s information 3. Data is validated 4. Employee is updated with valid data |
| Expected Result | | Employee is updated with valid data |
| Actual Result | | Employee is updated with valid data |
|  | | **/api/deleteEmployee** |
| Trigger | | User confirms the deletion of an employee |
| Normal Flow | | 1. User clicks to delete an employee 2. User confirms the deletion of the employee 3. /api/deleteEmployee with the relevant employee data is sent 4. The given employee is deleted from the database |
| Expected Result | | The given employee is deleted from the database |
| Actual Result | | The given employee is deleted from the database |
|  | | **/api/getAllEmployeesForCompany** |
| Trigger | | User clicks on a company |
| Normal Flow | | 1. User clicks on a compnay 2. /api/getAllEmployeesForCompany with relevant company data is sent 3. The given employees associated with that company is fetched 4. All employees associated with that company is displayed |
| Expected Result | | All employees associated with that company is displayed |
| Actual Result | | All employees associated with that company is displayed |

## **Company**

|  |  |
| --- | --- |
|  | **/api/getAllCompanies** |
| Trigger | Frontend trigger (home page loaded) |
| Normal Flow | 1. User navigates to webpage 2. /api/getAllCompanies gets called 3. returns all companies |
| Expected Result | List of company objects returned |
| Actual Result | List of company objects returned |
|  | **/api/getCompanyAverageSalary** |
| Trigger | Frontend trigger (home page loaded) |
| Normal Flow | 1. User navigates to webpage 2. /api/getCompanyAverageSalary gets called 3. returns each individual company’s average salary per employee |
| Expected Result | Returns each individual company’s average salary per employee |
| Actual Result | Returns each individual company’s average salary per employee |