**Backend Practical Test**

* **Create a new microservice using Java >= 8 with spring boot framework**
* **The microservice should include 3 Restful APIs to manage employees database.**
* **The database should be file(s) within the project (e.g. txt, json )**
* **The result should be pushed to your Github and link to be shared.**
* **APIs**
  + **Create Employee API**
    - **Insert a new employee in the database.**
  + **Get Employee by Id API**
    - **Retrieve employees’ details by Id**
  + **Get Employees API**
    - **The query parameters are optional (name & fromSalary & toSalary)**
    - **If the name parameter is passed, the api should search for all employees that their first name or last name contains the search text.**
    - **If fromSalary or toSalary or both passed, consider the following.** 
      * **fromSalary only 🡪 Retrieve all employees who have salary >= fromSalary**
      * **toSalary only 🡪 Retrieve all employees who have salary <= toSalary**
      * **Both 🡪 Retrieve all employees who have salary between fromSalary and toSalary inclusive.**

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| 1. **API** | **Create Employee API** |
| **URL** | **/employees** |
| **Http Method** | **POST** |
| **Request Body** | {      "firstName": "Mohamed",      "lastName": "Ahmed",      "dateOfBirth": "2000-01-01",      "salary": "1000",      "joinDate": "2023-05-18",      "departement": "IT"  } |
| **Response** | {      "id": 1  } |

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| 1. **API** | **Get Employee By Id API** |
| **URL** | **/employees/{id}** |
| **Http Method** | **GET** |
| **Response Body** | {      "id": 1,      "firstName": "Mohamed",      "lastName": "Ahmed",      "dateOfBirth": "2000-01-01",      "salary": "1000",      "joinDate": "2023-05-18",      "departement": "IT"  } |
| 1. **API** | **Get Employees** |
| **URL** | **/employees?name={name}&fromSalary={fromSalary}**  **&toSalary={toSalary}** |
| **Http Method** | **GET** |
| **Response Body** | [{      "id": 1,      "firstName": "Mohamed",      "lastName": "Ahmed",      "dateOfBirth": "2000-01-01",      "salary": "1000",      "joinDate": "2023-05-18",      "departement": "IT"  },  {      "id": 2,      "firstName": "Salman",      "lastName": "Ebrahim",      "dateOfBirth": "1990-01-01",      "salary": "2000",      "joinDate": "2016-03-18",      "departement": "Business"  }  ] |