

React Js & Spring & Jasper

Spring Backend Application

API Name	HTTP Method	Path	Status Code	Description
GET Employees	GET	/employees	200 (OK)	All Employee resources are fetched.
POST Employee	POST	/employees	201 (Created)	A new Employee resource is created.
GET Employee	GET	/employees/{id}	200 (OK)	One Employee resource is fetched.
PUT Employee	PUT	/employees/{id}	200 (OK)	Employee resource is updated.
DELETE Employee	DELETE	/employees/{id}	204 (No Content)	Employee resource is deleted.

Server: 127.0.0.1 » Database: employeesdb » Table: employee

Browse Structure SQL Search Insert Export Import Privileges Operations

Showing rows 0 - 6 (7 total, Query took 0.0011 seconds.)

SELECT * FROM `employee`

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

☐ Edit ☐ Copy ☐ Delete

id

email

name

salary

☐ 1

hasbi.fatimazahra@gmail.com

Fatima Zahra

20000

☐ 2

hasnaa@gmail.com

Hasnaa

30000

☐ 3

achraf@gmail.com

Achraf

10000

☐ 4

halima@gmail.com

Halima

40000

☐ 5

nouredine@gmail.com

Nouredine

22000

☐ 6

hamza@gmail.com

Hamza

20000

☐ 7

meryem@gmail.com

Meryem

30000

☐ Check all | With selected: ☐ Edit ☐ Copy ☐ Delete ☐ Export

☐ Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

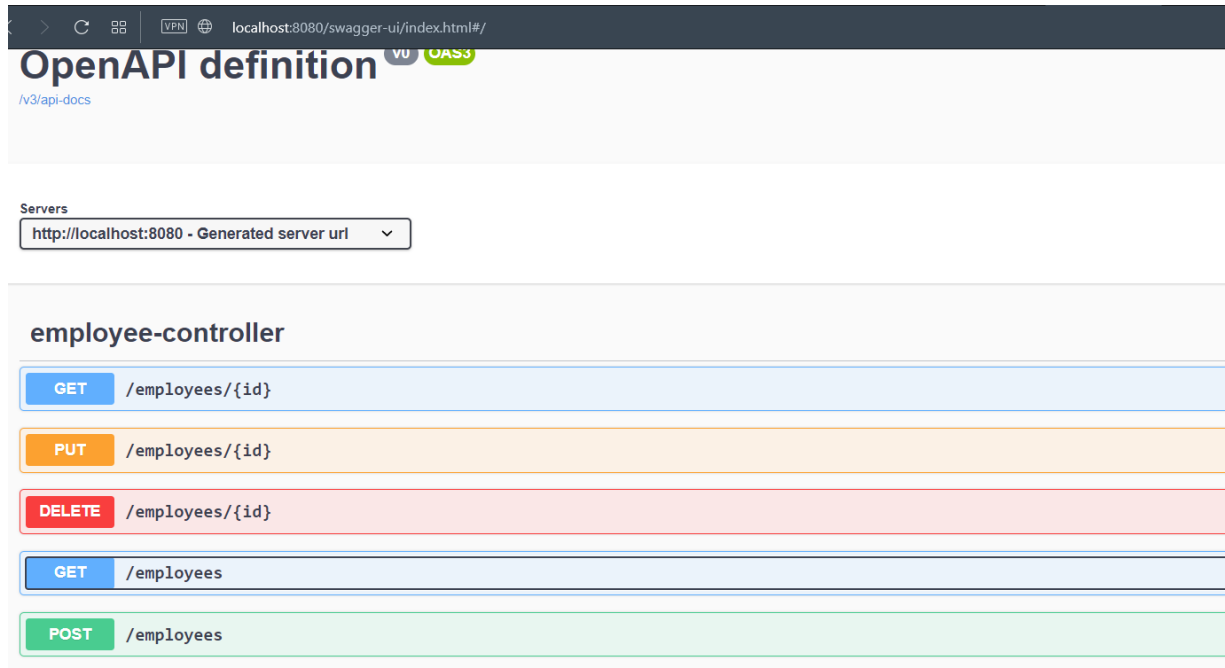
```
localhost:8080/employees

1 // 20230222121647
2 // http://localhost:8080/employees
3
4 [
5   {
6     "id": 1,
7     "name": "Fatima Zahra",
8     "email": "hasbi.fatimazahra@gmail.com",
9     "salary": 20000.0
10  },
11  {
12    "id": 2,
13    "name": "Hasnaa",
14    "email": "hasnaa@gmail.com",
15    "salary": 30000.0
16  },
17  {
18    "id": 3,
19    "name": "Achraf",
20    "email": "achraf@gmail.com",
21    "salary": 10000.0
22  },
23  {
24    "id": 4,
25    "name": "Halima",
26    "email": "halima@gmail.com",
27    "salary": 40000.0
28  },
29  {
30    "id": 5,
31    "name": "Noureddine",
```

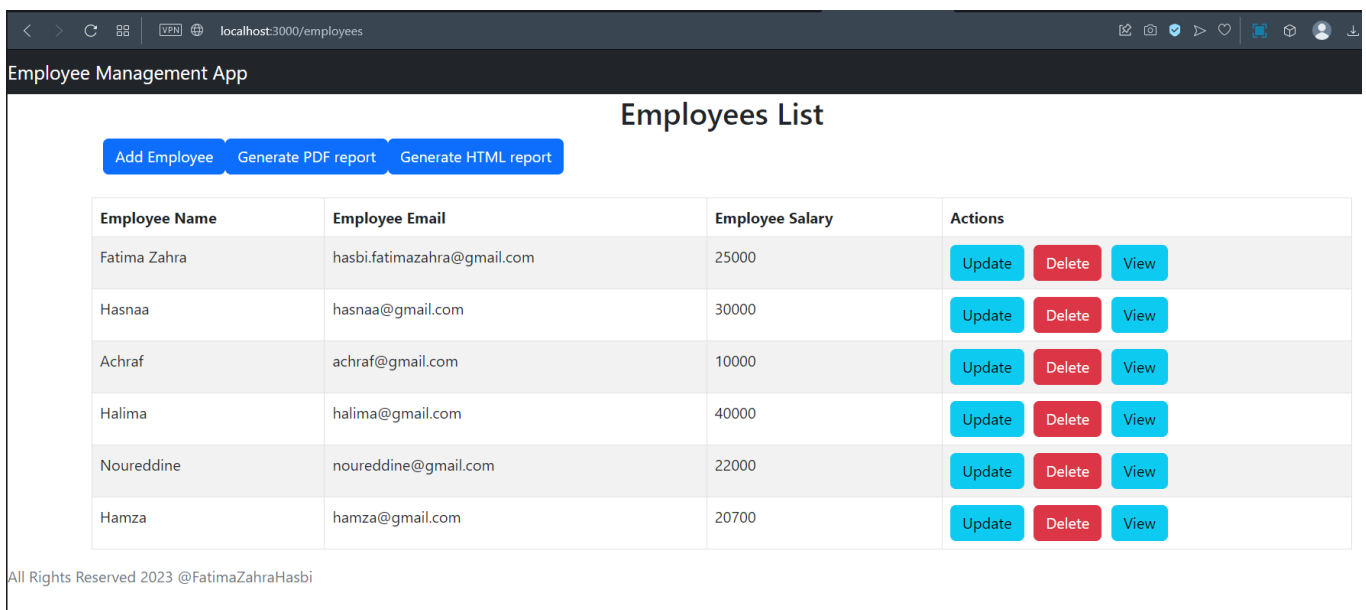
```
localhost:8080/employees/1

1 // 20230222121818
2 // http://localhost:8080/employees/1
3
4 {
5   "id": 1,
6   "name": "Fatima Zahra",
7   "email": "hasbi.fatimazahra@gmail.com",
8   "salary": 20000.0
9 }
```

Utilisation de Swagger pour tester les méthodes POST- PUT – DELETE



React JS Frontend Application



localhost:3000/add-employee/_add

Employee Management App

Add Employee

Name:

Email:

Salary:

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localhost:3000/add-employee/1

Employee Management App

Update Employee

Name:

Email:

Salary:

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localhost:3000/view-employee/1

Employee Management App

View Employee Details

Employee Name:
Fatima Zahra

Employee Email:
hasbi.fatimazahra@gmail.com

Employee Salary:
25000

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Reporting avec Jasper

Employees Report

Id	Name	Email	Salary
10248	VINET	5	7/4/16, 12:00 AM
10249	TOMSP	6	7/5/16, 12:00 AM
10250	HANAR	4	7/8/16, 12:00 AM
10251	VICTE	3	7/8/16, 12:00 AM
10252	SUPRD	4	7/9/16, 12:00 AM
10253	HANAR	3	7/10/16, 12:00 AM
10254	CHOPS	5	7/11/16, 12:00 AM
10255	RICSU	9	7/12/16, 12:00 AM
10256	WELLI	3	7/15/16, 12:00 AM
10257	HILAA	4	7/16/16, 12:00 AM
10258	ERNSH	1	7/17/16, 12:00 AM
10259	CENTC	4	7/18/16, 12:00 AM
10260	OTTIK	4	7/18/16, 12:00 AM
10261	QUEDE	4	7/19/16, 12:00 AM
10262	RATTC	8	7/22/16, 12:00 AM
10263	ERNSH	9	7/23/16, 12:00 AM
10264	FOLKO	6	7/24/16, 12:00 AM
10265	BLOMP	2	7/25/16, 12:00 AM
10266	WARTH	3	7/26/16, 12:00 AM
10267	FRANK	4	7/26/16, 12:00 AM
10268	GROSR	8	7/30/16, 12:00 AM
10269	WHITC	5	7/31/16, 12:00 AM

Compilation Time: 0.766 sec
Filling Time: 2.539 sec
Report Execution Time: 16.689 sec
Export Time: 0 sec
Total Pages: 23
Processed Records Count: 830 records

```
<dependency>  
<groupId>net.sf.jasperreports</groupId>  
<artifactId>jasperreports</artifactId>  
<version>6.20.0</version>  
</dependency>
```

```
BackendSpringApplication.java x EmployeeController.java x employees.jrxml x ReportService.java x  
2 usages  
17 @Service  
18 public class ReportService {  
19     1 usage  
20     @Autowired  
21     private EmployeeRepository repository;  
22  
23     1 usage  
24     @ public String exportReport(String reportFormat) throws FileNotFoundException, JRException {  
25         String path = "C:\\Users\\zertyui\\Desktop\\Report";  
26         List<Employee> employees = repository.findAll();  
27         //load file and compile it  
28         File file = ResourceUtils.getFile(resourceLocation: "classpath:employees.jrxml");  
29         JasperReport jasperReport = JasperCompileManager.compileReport(file.getAbsolutePath());  
30         JRBeanCollectionDataSource dataSource = new JRBeanCollectionDataSource(employees);  
31         Map<String, Object> parameters = new HashMap<>();  
32         parameters.put("createdBy", "Fatima Zahra Hasbi");  
33         JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, parameters, dataSource);  
34         if (reportFormat.equalsIgnoreCase("html")) {  
35             JasperExportManager.exportReportToHtmlFile(jasperPrint, destFileName: path + "\\employees.html");  
36         }  
37         if (reportFormat.equalsIgnoreCase("pdf")) {  
38             JasperExportManager.exportReportToPdfFile(jasperPrint, destFileName: path + "\\employees.pdf");  
39         }  
40         return "report generated in path : " + path;  
41     }  
42 }
```

```
BackendSpringApplication.java x employees.jrxml
1 <?xml version="1.0" encoding="UTF-8"?>
2 <!-- Created with JasperSoft Studio version 6.20.0.final using JasperReports Library version 6.20.0-2bc7ab61c56f459e8176eb05c7705e145cd400ad -->
3 <jasperReport xmlns="http://jasperreports.sourceforge.net/jasperreports" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://jasperreports.sourceforge.net/jasperreports http://jasperreports.sourceforge.net/jasperreports.xsd">
4
5     <field name="id" class="java.lang.Long">
6     </field>
7     <field name="name" class="java.lang.String">
8     </field>
9     <field name="email" class="java.lang.String">
10    </field>
11    <field name="salary" class="java.lang.Double">
12    </field>
13    <background>
14        <band/>
15    </background>
16    <title>
17        <band height="72">
18            <frame>
19                <reportElement mode="Opaque" x="-20" y="-20" width="595" height="92" backcolor="#006699" uuid="6ec3e035-a549-4a57-ae43-d9f90ec1854">
20                    <staticText>
21                        <reportElement x="20" y="20" width="340" height="43" forecolor="#FFFFFF" uuid="180ae3fb-77ec-436d-8add-b999f2e4993e"/>
22                        <textElement>
23                            <font size="34" isBold="true"/>
24                        </textElement>
25                        <text><![CDATA[Employees Report]]></text>
26                    </staticText>
27                    <staticText>
28                        <reportElement x="395" y="30" width="180" height="20" forecolor="#FFFFFF" uuid="d30d6cf8-9f29-4398-9dc8-c6581cef28b6"/>
29                        <textElement textAlignment="Right">
30                            <font size="14" isBold="false"/>
31                        </textElement>
32                    </staticText>
33                </reportElement>
34            </frame>
35        </band>
36    </title>
37    </background>
38    </jasperReport>
```

Employee Management App

Employees List

Add Employee Generate PDF report Generate HTML report

Employee Name	Employee Email	Employee Salary	Actions
Fatima Zahra	hasbi.fatimazahra@gmail.com	25000	<button>Update</button> <button>Delete</button> <button>View</button>
Hasnaa	hasnaa@gmail.com	30000	<button>Update</button> <button>Delete</button> <button>View</button>
Achraf	achraf@gmail.com	10000	<button>Update</button> <button>Delete</button> <button>View</button>
Halima	halima@gmail.com	40000	<button>Update</button> <button>Delete</button> <button>View</button>
Noureddine	noureddine@gmail.com	22000	<button>Update</button> <button>Delete</button> <button>View</button>
Hamza	hamza@gmail.com	20700	<button>Update</button> <button>Delete</button> <button>View</button>

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PDF

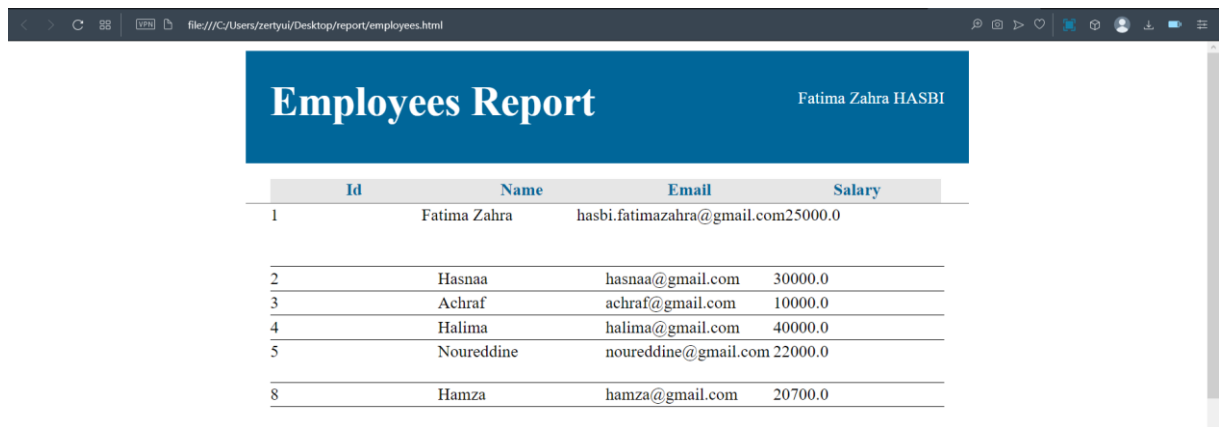
employees.pdf

1 / 1 | 100% + -

Employees Report Fatima Zahra HASBI

Id	Name	Email	Salary
1	Fatima Zahra	hasbi.fatimazahra@gmail.com	25000.0
2	Hasnaa	hasnaa@gmail.com	30000.0
3	Achraf	achraf@gmail.com	10000.0
4	Halima	halima@gmail.com	40000.0
5	Noureddine	noureddine@gmail.com	22000.0
8	Hamza	hamza@gmail.com	20700.0

HTML



The screenshot shows a web browser window with the address bar displaying the file path: file:///C:/Users/zertyui/Desktop/report/employees.html. The browser's toolbar includes navigation buttons (back, forward, refresh), a search icon, and a menu icon. The main content area displays a report titled "Employees Report" in a large, bold, white serif font on a dark blue background. To the right of the title, the author's name "Fatima Zahra HASBI" is displayed in a smaller, white sans-serif font. Below the header, there is a table with four columns: "Id", "Name", "Email", and "Salary". The table has six rows of data, each separated by a horizontal line. The first row shows an employee with Id 1, Name Fatima Zahra, Email hasbi.fatimazahra@gmail.com, and Salary 25000.0. The subsequent rows show employees with Ids 2, 3, 4, 5, and 8, with names Hasnaa, Achraf, Halima, Nouredine, and Hamza respectively, and their corresponding email addresses and salaries.

Id	Name	Email	Salary
1	Fatima Zahra	hasbi.fatimazahra@gmail.com	25000.0
2	Hasnaa	hasnaa@gmail.com	30000.0
3	Achraf	achraf@gmail.com	10000.0
4	Halima	halima@gmail.com	40000.0
5	Nouredine	nouredine@gmail.com	22000.0
8	Hamza	hamza@gmail.com	20700.0

Lien de repository sur GitHub :

<https://github.com/FatimaZahraHASBI/ReactJS-Spring-Boot-JasperReport-EmployeesApp>