

1.0 Introduction

1.1 Purpose

The purpose of this document is to present a detailed description of the HR Panel System. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate.

1.2 Scope of Project

The system is designed for the company's HR department to organize the data about all the company employees in a single web app as well as make it easy to view, edit and delete aforementioned data.

User has to be able to work with the data about all the departments and workers in the company. The system can be used in any web browser or using a REST API. Frontend provides the user with a simple interface with all functions required for his work.

Project is provided with unit tests covering over 90% of the code.

1.3 Overview of Document

The next chapter describes use case for both web service and web application.

2.0 Overall Description of Web Application

2.1 Departments

On this page user can find data about different departments of the company.

Main scenario:

- User opens ‘departments’ page
- Application returns a list of all departments in the company

Employees

Welcome to the Department Page

Here you can find the list of all employees that are present in the db. All of them can be viewed, edited and deleted.

Add Employee

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

QA Department

Average salary 1000\$

View

Edit

Delete

6 employees

1

2

3

4

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User is able to

- view a list of departments
- add a new department into the database
- switch pages using pagination button to view more departments

Following information is shown for each department:

- Department name
- Average salary per department
- Number of employees

Data of every department can be edited or removed using these modals

The image shows two side-by-side modal boxes. The left modal is titled 'Create New Department' and contains a text input field labeled 'New Name' with a blue border. Below the input field are two buttons: 'Cancel' and 'Create'. The 'Create' button has a blue border. The right modal is titled 'Delete Department' and contains the text 'Are you sure you want to delete this department?'. Below this text are two buttons: 'Cancel' and 'Delete'. The 'Delete' button has a red border.

2.2 Employees

This part of web service provides user with an ability to create, view, edit and delete employee table data as well as filter them by birthdate.

Main scenario:

- User opens 'employees' page
- Application returns a list of all company workers



Welcome to the Employees Page

Here you can find the list of all employees that are present in the db. All of them can be viewed, edited and deleted.

Add Employee

James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	Birthdate <input type="text"/> Born between Start <input type="text"/> End <input type="text"/> Filter Clear Filter
James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	
James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	James Davidson QA Department 1000\$ View Edit Delete 03.03.1993	
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User is able to

- view a list of employees with an indication of each employee data
- add a new employee into the database
- switch pages using pagination button to view more employees
- search for employees born on a certain date or in the period of dates (all filtering is done on the frontend)

An employee card displays following information:

- Name
- Department where they work
- Salary
- Birthdate

All these data can be edited using buttons that opens next modal windows

The image shows two modal windows side-by-side. The left window is titled 'Create New Employee' and contains four text input fields labeled 'New Name', 'New Birthdate', 'New Department', and 'New Salary'. At the bottom of this window are two buttons: 'Cancel' and 'Create'. The right window is titled 'Delete Employee' and contains the text 'Are you sure you want to delete this employee?'. At the bottom of this window are two buttons: 'Cancel' and 'Delete'.

2.3 Department page

On this page user can find info about a particular department as well as about the personnel that works in it.

Main scenario:

- User opens 'departments' page
- Application returns a list of all employees who work in the selected department

Employee

Welcome to the Customer QA Page

Here you can find the list of all employees working in the QA department. All of them can be viewed, edited and deleted

Add Employee

Edit

Delete

[Home](#) > Customer Support

James Davidson

QA Department

1000\$

View

Edit

Delete

03.03.1993

James Davidson

QA Department

1000\$

View

Edit

Delete

03.03.1993

James Davidson

QA Department

1000\$

View

Edit

Delete

03.03.1993

James Davidson

QA Department

1000\$

View

Edit

Delete

03.03.1993

James Davidson

QA Department

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03.03.1993

James Davidson

QA Department

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James Davidson

QA Department

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03.03.1993

James Davidson

QA Department

1000\$

View

Edit

Delete

03.03.1993

James Davidson

QA Department

1000\$

View

Edit

Delete

03.03.1993

Birthdate

Born between

Start

End

Filter

Clear Filter

1

2

3

4

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User is able to

- view a list of employees with an indication of each employee data
- add a new employee into the database
- switch pages using pagination button to view more employees
- search for employees born on a certain date or in the period of dates (all filtering is done on the frontend)
- edit department data or delete it and all it workers from the database

2.4 Employee Page

On the employee page user can view and edit data about a particular employee. Web service uses the same modal windows as in the ‘employees’ page.

Employee

James Davidson

QA Department

Salary 1000 \$

03.03.1993

Edit

Delete

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2.5 Additional Details

After changing or removing any employee or department an alert message will be shown. These can also appear when API returns an error code due to any reason, including when a user tries to set an invalid value to an object.

Employee data updated

Salary has to be a number

3.0 Overall Description of Web Service

Designed system also provides user with a REST API web service with the same functionality as the web application.

User can run CRUD operation using curl or any other client tool such as Postman.

These are available API routes

✓ EPAM Final Project

GET /department

GET /department/<name>

POST /department/<name>

PUT /department/<name>

DEL /department/<name>

GET /department/<name>/employees

GET /employee

GET /employee/<id>

POST /employee/

PUT /employee/<id>

DEL /employee/<id>

When updating some object data via PUT request user has to specify new data in the body of the request.

```
1  }
2  .... "name": "Josh",
3  .... "department": "Finance",
4  .... "birthdate": "01.12.2002",
5  .... "salary": 1200
6  }
```
