

# Employess

## Vision

“Employees” is web-application with webservices which allows users to record, change, search and delete information about employees and departments.

Application should provide:

- Storing tables employees and departments with data in a database;
- Departments should store their names;
- Employees should store the following data: related department, employee name, date of birth, salary;
- Display list employees;
- Updating the list of employees (adding, editing, removing);
- Display list of departments;
- Updating the list of departments (adding, editing, removing);
- Populate database with the test data;
- Web service(RESTful) for CRUD operations returns data stored in the database;
- Web application uses web service to fetch the data from database;
- display a list of departments and the average salary (calculated automatically) for these departments;
- display a list of employees in the departments with an indication of the salary for each employee and a search field to search for employees born on a certain date or in the period between dates;




## 1. Employees

### 1.1. Display list employees

The mode is designed to view the list of employees, if it possible to display the list of employees for a specified range of birthdays.

Main scenario:

- User selects item “Employees”;
- Application displays list of Employees.

|            |             |                  |   |            |            |  |   |
|------------|-------------|------------------|---|------------|------------|--|---|
| Employees  | Departments | Add New Employee |   |            |            |  |   |
| date from: |             | 01/08/1990       |  | to:        | 01/09/1992 |  |  |
| id         | name        | birthday         | salary  | department | action     |  |   |
| 1          | Alex        | 01.02.1991       | 1000  | web        | Edit       | Delete   |   |
| 2          | Peter       | 04.05.1992       | 400   | Android    | Edit       | Delete   |   |

Pic. 1.1 View the Employees list.

The list displays the following columns:

- id – unique employee number;
- name – employee's name;
- birthday – date of birth of employee;
- salary – salary of employee;
- department – name of department;
- action – 2 buttons to edit the record and delete the record.

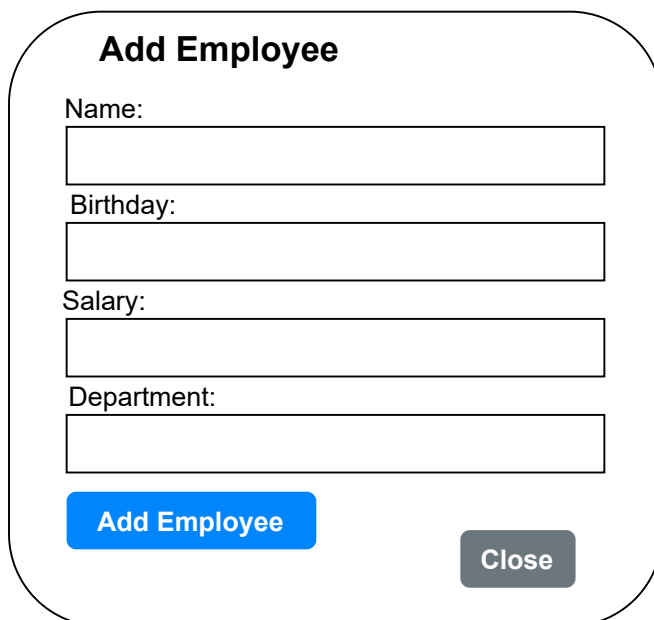
### ***Filtering by date:***

- In the order list view mode, the user sets a date filter and presses the refresh list button (to the right of the date entry field);
- The application will display a form to view the list of employees with updated data.

## **1.2 Add employee**

### ***Main scenario:***

- User clicks the “Add New Employee” button in the employees list view mode;
- Application displays form to enter employee data;
- User enters employee data and presses “Add Employee” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new employee record is successfully added, then list of employees with added records is displaying.

A screenshot of a web form titled "Add Employee" inside a rounded rectangle. The form contains four text input fields, each preceded by a label: "Name:", "Birthday:", "Salary:", and "Department:". Below the input fields are two buttons: a blue button labeled "Add Employee" and a grey button labeled "Close".

**Add Employee**

Name:

Birthday:

Salary:

Department:

**Add Employee** **Close**

Pic. 1.2 Add employee.

When adding an employee, the following details are entered:

- name – employee's name;
- birthday – date of employee's birthday;
- salary – employee's salary;
- department – department where is employee;

### ***Cancel operation scenario:***

- User clicks the “Add New Employee” button in the order list view mode;
- Application displays form to enter employee data;
- User enters employee data and presses “Close” button;
- Data don't save in data base, then list of employees records is displaying to user.
- If the user selects the menu item "Employees", or "Departments", the data will not be saved to the database and the corresponding form with updated data will be opened.

## **1.3 Edit employee.**

### **Main scenario:**

- User clicks the “Edit” button in the employees list view mode;
- Application displays form to enter employee data;
- User enters employee data and presses “Update” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then edited data is added to database;
- If error occurs, then error message is displaying;
- If employee record is successfully edited, then list of employees with added records is displaying.

### **Cancel operation scenario:**

- User clicks the “Edit” button in the employees list view mode;
- Application displays form to enter employee data;
- User enters employee data and presses “Close” button;
- Data don’t save in data base, then list of employees records is displaying to user.
- If the user selects the menu item "Employees" or "Departments", the data will not be saved to the database and the corresponding form with updated data will be opened.

The image shows a web form titled "Update information" inside a rounded rectangle. It contains four text input fields labeled "Name:", "Birthday:", "Salary:", and "Department:". Below the fields are two buttons: a blue "Update" button and a grey "Close" button.

Pic. 1.3 Edit employee.

When editing an employee, the following details are entered:

- name – employee's name;
- birthday – date of employee's birthday;
- salary – employee's salary;
- department – department where is employee;

Constraints for data validation:

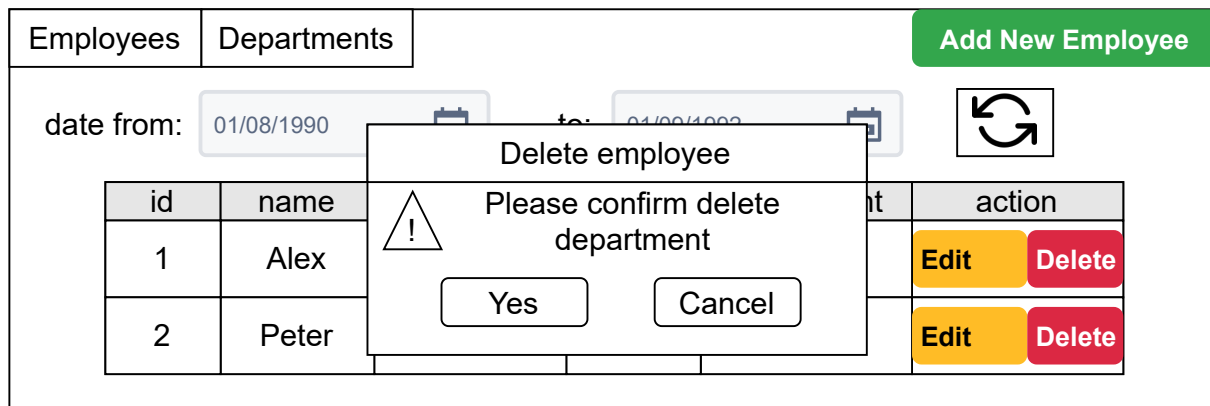
- name – maximum length of 100 characters;
- birthday – order add date in format dd/mm/yyyy;
- salary – integer type;
- department – maximum length of 100 characters;

## **1.4 Removing the order**

### **Main scenario:**

- The user, while in the list of employees, presses the "Delete" button in the selected employee line;

- If the employee can be removed, a confirmation dialog is displayed;
- The user confirms the removal of the employee;
- Record is deleted from database;
- If error occurs, then error message displays;
- If employee record is successfully deleted, then list of employees without deleted records is displaying.



Pic 1.4 Delete employee dialog

Cancel operation scenario:

- User is in display mode of employees list and press "Delete" button;
- Application displays confirmation dialog "Please confirm delete employee?";
- User press "Cancel" button;
- List of departments without changes is displaying.

## 2. Departments

### 2.1 Display list of Departments

This mode is intended for viewing and editing the departments list.

#### **Main scenario:**

- User selects item “Departments”;
- Application displays list of departments.

Employees

Departments

Add New Department

| id | name    | Average Salary | action                            |
|----|---------|----------------|-----------------------------------|
| 1  | web     | 450            | <div>Edit</div> <div>Delete</div> |
| 2  | backend | 670            | <div>Edit</div> <div>Delete</div> |

The list displays the following columns:

- id – department's id;
- name – departments name;
- Average Salary – an average salary of department;
- action – buttons Edit and Delete to manipulate record.

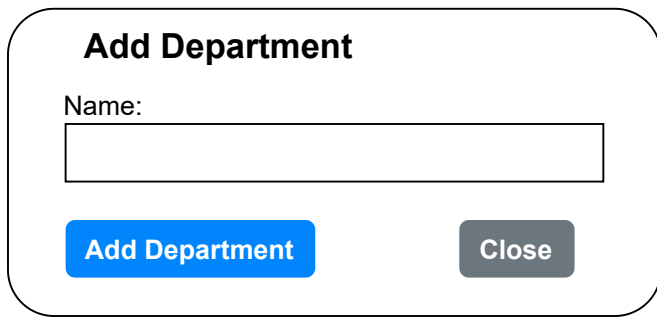
### 2.2 Add client

#### **Main scenario:**

- User clicks the “Add New Department” button in the departments list view mode;
- Application displays form to enter department data;
- User enters department’s data and presses “Update” button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then record is adding to database;
- If error occurs, then error message is displaying;
- If new deparment record is successfully added, then list of departments with added records is displaying.

#### **Cancel operation scenario:**

- User clicks the “Add New Department” button in the departments list view mode;
- Application displays form to enter department’s data;
- User enters department’s data and presses “Close” button;
- Data don’t save in data base, then list of departments records is displaying to user.
- If the user selects the menu item "Employees" or "Departments", the data will not be saved to the database and the corresponding form with updated data will be opened.

A screenshot of a web form titled "Add Department". It features a label "Name:" followed by a text input field. Below the input field are two buttons: a blue "Add Department" button and a grey "Close" button.

**Add Department**

Name:

**Add Department** **Close**

Pic. 2.2 Add department

When adding a department, the following details are entered:

- name - department's name

Constraints for data validation:

- name - maximum length of 100 characters;

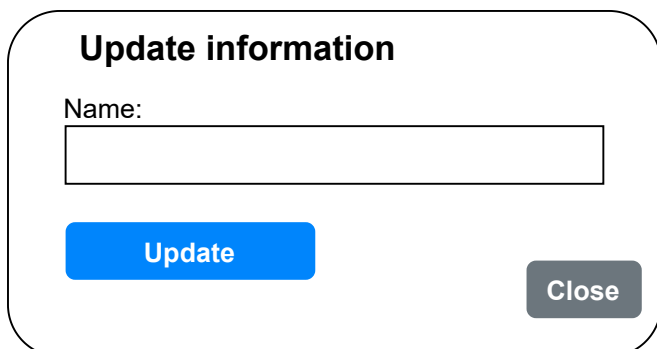
## 2.3 Edit department

### **Main scenario:**

- User clicks the "Edit" button in the departments list view mode;
- Application displays form to enter department data;
- User enters department's data and presses "Update" button;
- If any data is entered incorrectly, incorrect data messages are displayed;
- If entered data is valid, then edited data is added to database;
- If error occurs, then error message is displaying;
- If department's record is successfully edited, then list of departments with added records is displaying.

### **Cancel operation scenario:**

- User clicks the "Edit" button in the departments list view mode;
- Application displays form to enter department data;
- User enters department data and presses "Close" button;
- Data don't save in data base, then list of departments records is displaying to user.
- If the user selects the menu item "Employees" or "Departments", the data will not be saved to the database and the corresponding form with updated data will be opened

A screenshot of a web form titled "Update information". It features a label "Name:" followed by a text input field. Below the input field are two buttons: a blue "Update" button and a grey "Close" button.

**Update information**

Name:

**Update** **Close**

Pic. 2.3 Edit department.

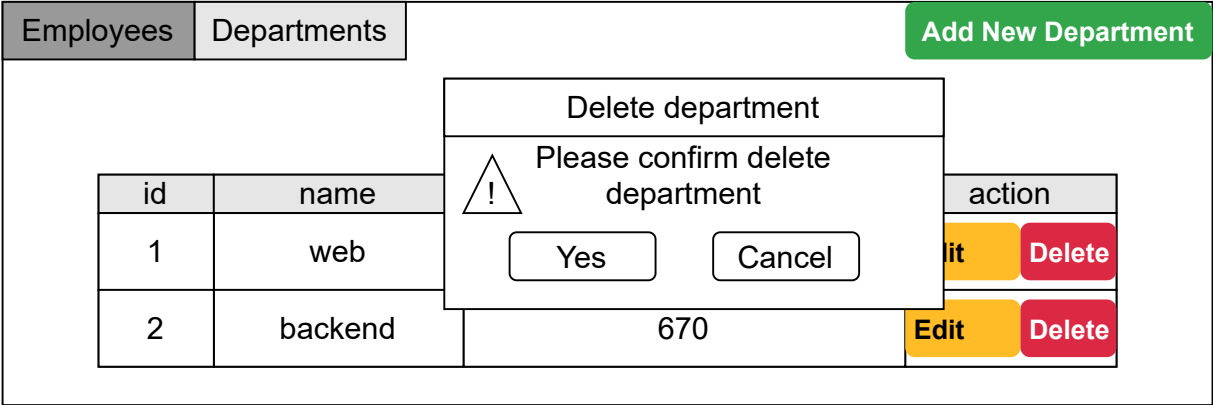
## 2.4 Removing client

### Main scenario:

- The user, while in the list of departments mode, presses the "Delete" button in the selected client line;
- Application displays confirmation dialog “Please confirm delete deparment?”;
- The user confirms the removal of the department;
- Record is deleted from database;
- If error occurs, then error message displays;
- If department record is successfully deleted, then list of departments without deleted records is displaying.

### Cancel operation scenario:

- User is in display mode of departments list and press “Delete” button;
- Application displays confirmation dialog “Please confirm delete department?”;
- User press “Cancel” button;
- List of departments without changes is displaying.



Pic. 2.4 Delete department dialog.