

Manage departments and employees

Vision

"Manage departments and employees" is web-application which allows users to record information about employees and departments.

Application should provide:

- Display list of departments;
- Display list of employees;
- Display the average salary for departments;
- Updating the list of departments(adding, editing, removing);
- Updating the list of employees(adding, editing, removing);
- search for employees born on a certain date;
- search for employees born on in the period between dates;
- Display a list of departments and the average salary.







1. Departments

1.1 Display list of departments

The mode is designed to view list of departments and average salary for department.

Main scenario:

- User select item "Departments";
- Application displays list of departments.

Browser				
↶ ↷ 🔍 🏠 <input type="text" value="http://site.com/departments.html"/> <input type="text" value=""/>				
Departments	<input type="button" value="Add new"/>			
Employees				
	Name	Average salary	Count of employees	
	Human Resource	5000	3	 
	Finance	3000	5	 
	Marketing	4000	8	 

Pic. 1.1 View the Departments list.

The list displays the following columns:

- Name - unique department name;
- Average salary - average salary of department;
- Count of employees - count of employees in department.

Aggregate function: Average salary = Sum salary / Count of employees.

1.2 Add department

Main scenario:

- User click the "Add" button in the department list view mode;
- Application displays form to enter department data;
- User enters data and presses "Save" 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 department record is successfully added, then list of departments with added records is displaying.

Cancel operation scenario:

- User click the "Add" button in the department list view mode;
- Application displays form to enter department data;
- User enters data and presses "Cancel" button;
- Data don't save in database, then list of departments records is displaying to user;
- If the user closes tab, tha data will not be saved to the database.

The screenshot shows a web browser window with the title "Browser". The address bar contains the URL "http://site.com/add.html". The main content area displays a form titled "Add new department". The form has a label "Name:" followed by a text input field. Below the input field are two buttons: "Cancel" and "Add".

Pic. 1.2 Add department

When adding a department, the following details are entered:

- Name - name of department.

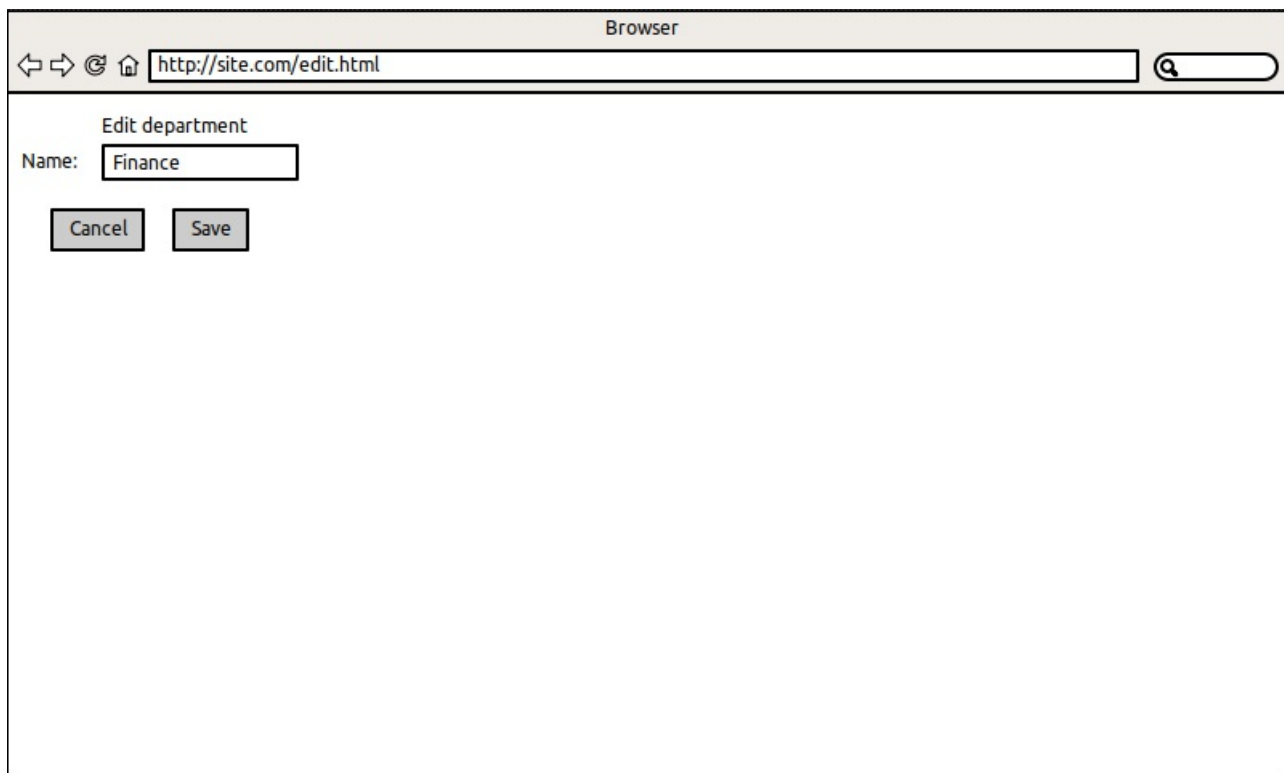
1.3 Edit department

Main scenario:

- User click the "Edit" button in the departments list;
- Application displays form to enter department data;
- User enters department data and presses "Save" 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 department record is successfully added, then list of departments with added records is displaying.

Cancel operation scenario:

- User click the "Edit" button in the department list view mode;
- Application displays form to enter department data;
- User enters data and presses "Cancel" button;
- Data don't save in database, then list of departments records is displaying to user;
- If the user closes tab, tha data will not be saved to the database.



Pic. 1.3 Edit department

When adding a department, the following details are entered:

- Name - name of department.

Constraints for data validation:

- Name - maximum length of 90 characters.

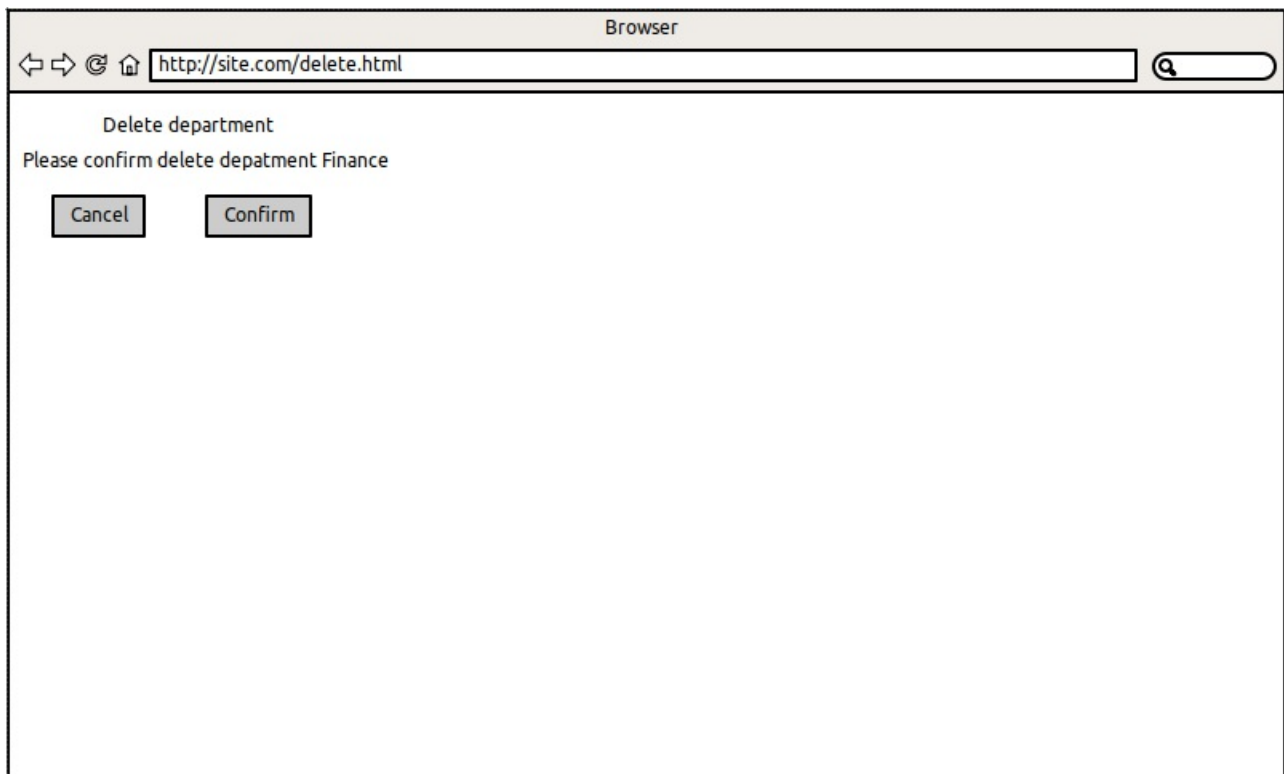
1.4 Removing department

Main scenario:

- The user, while in the list of departments, presses the "Delete" button in the selected department line;
- If the department can be removed, a confirmation dialog is displayed;
- The user confirms the removal of the department;
- Record is deleted from database;
- If error occurs, then error message is displaying;
- If department record is successfully deleted, then list of departments without deleted records is displaying.

Cancel operation scenario:

- User in display mode of departments and press "Delete" button;
- Application displays confirmation dialog "Please confirm deleted department";
- User press "Cancel" button;
- List departments without changes is displaying.



Pic. 1.4 Delete department

2. Employees

2.1 Display list of employees

The mode is designed to view list of employees and average salary for employee.

Main scenario:

- User select item "Employees";
- Application displays list of employees.

A screenshot of a web browser window titled "Browser". The address bar shows "http://site.com/employees.html". The main content area displays a table of employees. On the left, there is a sidebar with "Departments" and "Employees" (selected). Above the table, there is a search bar and an "Add new" button. The table has columns: Name, Department, Date of birth, and Salary. There are three rows of employee data. To the right of each row, there are icons for editing (pencil) and deleting (trash).

Name	Department	Date of birth	Salary
George	Marketing	3.10.1999	3500
Roman	Finance	5.10.1996	4800
Petro	Finance	8.12.2000	3900

Pic. 2.1 View the Employees list.

The list displays the following columns:

- Name - unique employee name;
- Average salary - average salary of employee;
- Count of employees - count of employees in employee.

Aggregate function: Average salary = Sum salary / Count of employees.

2.2 Add employee

Main scenario:

- User click the "Add" button in the employee list view mode;
- Application displays form to enter employee data;
- User enters data and presses "Save" 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.

Cancel operation scenario:

- User click the "Add" button in the employee list view mode;
- Application displays form to enter employee data;
- User enters data and presses "Cancel" button;
- Data don't save in database, then list of employees records is displaying to user;
- If the user closes tab, tha data will not be saved to the database.

The screenshot shows a web browser window titled "Browser" with the address bar displaying "http://site.com/add.html". The main content area contains a form titled "Add employee". The form has four input fields: "Name:" with the value "Maria", "Department:" with a dropdown menu showing "Finance", "Salary:" with the value "3400", and "Date of birth:" with the value "10.12.1995" and a calendar icon. At the bottom of the form, there are two buttons: "Cancel" and "Add".

Pic. 2.2 Add employee.

When adding a employee, the following details are entered:

- Name - name of employee.

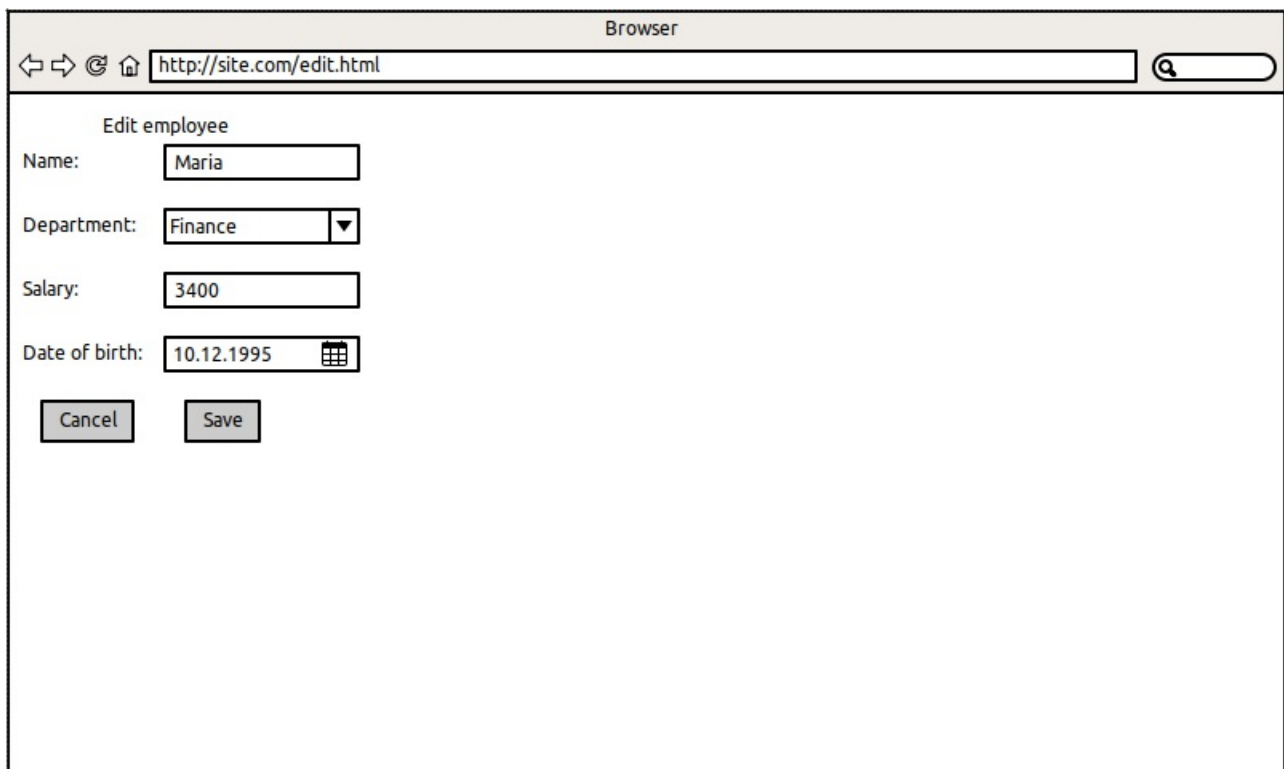
###2.3 Edit employee

Main scenario:

- User click the "Edit" button in the employees list;
- Application displays form to enter employee data;
- User enters employee data and presses "Save" 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.

Cancel operation scenario:

- User click the "Edit" button in the employee list view mode;
- Application displays form to enter employee data;
- User enters data and presses "Cancel" button;
- Data don't save in database, then list of employees records is displaying to user;
- If the user closes tab, tha data will not be saved to the database.



The screenshot shows a web browser window with the address bar displaying 'http://site.com/edit.html'. The main content area is titled 'Edit employee' and contains a form with the following fields:

- Name:
- Department: (with a dropdown arrow)
- Salary:
- Date of birth: (with a calendar icon)

At the bottom of the form, there are two buttons: 'Cancel' and 'Save'.

Pic. 2.3 Edit employee.

When adding a employee, the following details are entered:

- Name - name of employee;
- Department - department;
- Date of birth - date of birth;

Constrains for data validation:

- Name - maximum length of 90 characters;
- Department - maximum length of 90 characters;
- Date of birth - date of user birth in format dd.mm.yyyy.

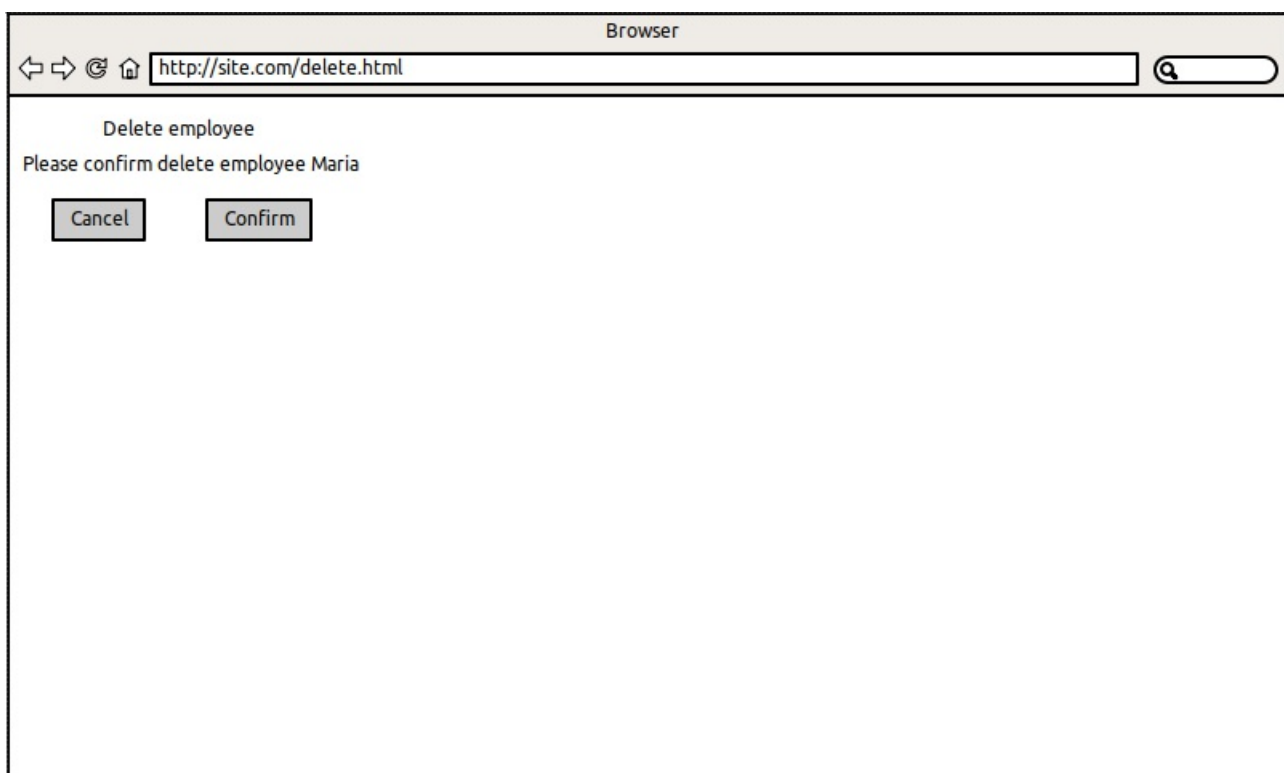
2.4 Removing employee

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 is displaying;
- If employee record is successfully deleted, then list of employees without deleted records is displaying.

Cancel operation scenario:

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



Pic. 2.4 Delete employee.