

## On Your Own Exercise – Full Web Form

Your task is to build a webpage that allows the user to add or edit employees in the Amazonia database. Your form should look like this:

**Search**

**By Employee ID:**

**By Employee Name:**

**Data Entry**

**Employee ID:**

**Employee Name:**

**Password:**

**Employee Type:**  Administrator  
 Worker

Use the CSS style “Chocolate” available from the W3C at <https://www.w3.org/StyleSheets/Core/Chocolate>.

Basically, your form is divided into two parts, the search and data entry part. Only one part of the form should be active at any time. By default, the search option should be enabled.

Searching by an employee ID retrieves the employee if it is there. The password should not be retrieved as the password should be one-way encrypted.

## Search

By Employee ID:  [Add New Employee](#)  
By Employee Name:

## Data Entry

Employee ID: 1  
Employee Name:   
Password:   
Employee Type:  Administrator  
 Worker

Cancel Save

Password is a mandatory field!

If the employee ID is not found, an error should be generated:

ID 99 not found!

## Search

By Employee ID:  [Add New Employee](#)  
By Employee Name:

## Data Entry

Employee ID:   
Employee Name:   
Password:   
Employee Type:  Administrator  
 Worker

Cancel Save

Searching by employee name should work as follows:

- If there are no matching employees, nothing happens.
- As the user types, matching employees should be revealed.

The screenshot shows a dark-themed interface with two main sections: "Search" and "Data Entry".

- Search Section:** Contains two input fields. The first is labeled "By Employee ID:" and is empty. The second is labeled "By Employee Name:" and contains the letter "o". To the right of the "By Employee ID:" field is a button labeled "Add New Employee".
- Data Entry Section:** Contains four labels: "Employee ID:", "Employee Name:", "Password:", and "Employee Type:". Below these labels are input fields. The "Employee Type:" field has two radio buttons, one of which is selected and labeled "Worker".
- Dropdown Menu:** A white dropdown menu is open below the "By Employee Name:" field, listing three items: "Shalltear Bloodfallenx", "Momonga", and "Another test".
- Buttons:** At the bottom of the interface are two buttons: "Cancel" on the left and "Save" on the right.

- If the user clicks on a matching employee, that employee is retrieved into the data entry section.

Alternately, the user could opt to create a new employee. If so, the Employee ID will become (system generated)- it will be created by the system when the employee is saved.

The screenshot shows the "Data Entry" section of the interface, which is used for creating a new employee.

- Search Section:** The "By Employee ID:" field is empty, and the "By Employee Name:" field is also empty. The "Add New Employee" button is visible.
- Data Entry Section:** The "Employee ID:" field is labeled "(System Generated)". The "Employee Name:" field is empty. The "Password:" field is empty. The "Employee Type:" field has two radio buttons: "Administrator" and "Worker", both of which are unselected.
- Buttons:** At the bottom of the interface are two buttons: "Cancel" on the left and "Save" on the right.
- Red Text:** On the right side of the "Data Entry" section, there are three lines of red text: "Employee name is a mandatory field!", "Password is a mandatory field!", and "Employee type is a mandatory field!".

In data entry mode, the save button is disabled until the employee name, employee password and employee type are filled in. Red messages should appear beside each field that is not filled in. These red messages should disappear once the field is filled in.

The screenshot shows a dark-themed interface with two main sections: 'Search' and 'Data Entry'. The 'Search' section has two input fields: 'By Employee ID:' and 'By Employee Name:'. The 'Data Entry' section contains the following fields and controls:

- Employee ID:** (System Generated) - This field is disabled.
- Employee Name:** Input field containing the text 'tes'.
- Password:** Input field that is currently empty. To its right, a red error message reads: "Password is a mandatory field!".
- Employee Type:** Radio button controls for 'Administrator' (which is selected) and 'Worker'.

At the bottom of the 'Data Entry' section, there are two buttons: 'Cancel' and 'Save'. The 'Save' button is currently disabled (greyed out).

Once all three fields are filled in (in any order), the save button should be enabled.

This screenshot shows the same 'Data Entry' form as the previous one, but with the following changes:

- The **Password:** field is now filled with four dots '....'.
- The **Save** button is now enabled (it is no longer greyed out).

All other elements, including the 'Employee Name' field with 'tes' and the 'Administrator' radio button, remain the same.

When the save button is pressed, it should ask whether the user really wishes to save. If the user confirms it, the entry will be saved to the database:

- If the employee ID is there, the system should update the database. Otherwise, it should insert a new record.

- The password should be encrypted using BCrypt.

Alternately, if the user hits Cancel, the system should ask if the user wishes to cancel. If so, the system will blank out data entry and return to search.

The employee type radio button should be populated from the database. Do not hard code the radio button entries.

Marking (out of 20):

There are no unanticipated consequences- system crashes unexpectedly, weird error messages emerge, etc. (4 marks)

Is base layout correct? (2 mark)

Does search by employee ID successfully retrieve an existing record or report an error if no record is found? (2 mark)

Does search by name retrieve a name if only one match is found or report an error if no match is found? (2 mark)

Does search by name become a pulldown where you can correctly select the appropriate match if more than one name is retrieved? (2 mark)

Do error messages appear and disappear correctly and dynamically during data entry? (2 mark)

Am I able to correctly update an existing record and then retrieve it? (2 mark)

Am I able to correctly add a new record and then retrieve it? (2 mark)

Does the cancel button work correctly? (2 mark)