

Full Stack – Project

You need to build a web site for A Factory management, based in Python & Flask, MongoDB & React.

- The Factory has employees
- Each employee belongs to a department
- Each employee works several shifts.
- Each shift composes from one or more employees


The Schema of the Data Base:


Department Table

- ID (PK)
- Name
- Manager name

Employee Table

- ID (PK)
- First Name
- Last Name
- Start Work Year
- DepartmentID (FK to Department.ID)

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Shift Table

- ID (PK)
- Date (date time)
- Start Time (int)
- End Time (int)

EmployeeShift Table

- ID (PK)
- EmployeeID (FK to Employee.ID)
- ShiftID (FK to Shift.ID)

3. Routers:

You have 3 routers in the server:

- Department
- Employee
- Shift

4. Pages

- **"Homepage"** with 3 links to Employees, Departments and Shifts Menus.

"Departments" page – A page with a table with all the departments data. Each Row will

Will have a "edit" and "delete" links.

- o Click on "edit" will redirect to a "Edit Department" page.
- o Click on "delete" will delete the department.
- o The page has a "Add Department" button. A click on it will redirect to "New Department" creation Page.

Important: The "delete" link in each row will be presented ONLY if there is no employee in that department

"Employees" page – A page with a table with all the departments Employees data. Each

row in the table will be present the employee's personal data and a list of his Shifts

(date + time). Each row has a "edit" and "delete" and "add shift" link.

- o A click on "edit" will redirect to a "Edit Employee" page.

The **"Edit Employee"** page will have a form for editing the data.

The **"department"** of the employee will be selected from a drop down list.

- o A click on "delete" will delete the employee data from the "employee" table and all his shifts from the related table.
- o A click on "Add Shift" link will redirect him to a "Add Shift To Employee" page

The **"employees"** page has also a search box for searching employees by their first name, last name or department. A click on "Search" button will redirect to a **"Search results"** page. That page will have a "back" button that will redirect back to the "Employees" page

“Shifts” page – A page with a table will all shifts. Each row will also present a list of the names of the employees registered to that shift. Each name will be a link.

- o A click on that link will redirect to “Edit Employee” page.
- o Shifts can NOT be changed (edited) nor deleted
- o The page has a “Add Shift” page which will redirect to a “Add Shift” page.