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### Application Report

I created an application from scratch, first I deleted all the elements that were made by default, and I deleted the map routing to use attribute routing. I chose to create 2 controllers besides the default one (in which I add only 1 thing), so 3 in total. The application has 2 tables (employees and managers) that are connected (ManagerId is the foreign key), I used Model Binding to get, delete and create the data. There is a folder that contains available ranks (the preferable option was to create a table for it, but I did not want to complicate things). The data is displayed in 4 formats, besides the one asked (HTML, Simple Text File, and JSON, I added XML – which I saw in the book, and I feel it will be nice to have it).

The application is designed to manage managers and employees within an organization (it does not have an authentication part yet). It provides features like add/remove and view the managers and employees that work for your organization. It also generates reports from the current employees and managers (textfile).

Functionalities available right now:

#### 1. Manager Management:

- Create new manager
- View managers on HTML format
- View managers on JSON format
- View managers on XML format
- Delete a manager

#### 2. Employee Management:

- Create a new employee (that it will have a manager)
- View list of all employees on HTML format
- View list of all employees on JSON/XML format

#### 3. Other functionalities:

- Reports of managers and employees (downloaded textfile)
- Number of current managers and employees

How to use:

#### 1. Manager Management:

- **To create** a new manager, use the navigation bar, choose “Create New Manager”, fill the required information and press submit.

- **To delete** a manager, while in Manager Table (see next point), press the “Delete” button next to the manager wanted to be deleted. Or by using URL Routing, go to “Manager/Delete/-id wanted to be deleted.
- **To view** the list of all managers, there are multiple options:
  - Navigation bar, choose “Manager Table” to view data in HTML format, or “Manager JSON/XML to view in JSON format (\*XML is only accessible via URL)
  - By URL Routing, search “ManagerFromHTML” or “Manager/ManagerFromHtml” to see HTML format. For JSON/XML format: ManagerJSON (for JSON), ManagerJSON/xml (for XML) . Example : <https://localhost:44331/ManagerJSON/xml>
- **To view a specific manager**, only by URL Routing, add the id/name of the manager in the URL. Example : <https://localhost:44331/ManagerFromHtml/28>
- **To download a report:**
  - Navigation bar, choose “Manager Txt File” and a file named “managers.txt” will be downloaded
  - URL Routing, search “ManagerTxt”, with id if you want a report about a specific manager. Example <https://localhost:44331/ManagerTxt>

## 2. Employee Management:

- To create a new employee, use the navigation bar, choose “Create New Employee”, fill the required information (Choose a manager) and press submit.
- To view the list of all manager there are multiple options:
  - i. Navigation bar, choose “Employees Table” to view data in HTML format, or “Employees JSON/XML to view in JSON format (\*XML is only accessible via URL)
  - ii. By URL Routing, search “Employees” to see HTML format. For JSON/XML format: EmployeesJSON (for JSON, EmployeesJSON/xml (for XML) or Employee/ShowAllJson . Example : <https://localhost:44331/ManagerJSON/xml>
- **To view a specific manager**, only by URL Routing, add the id/name of the employee in the URL. Example : <https://localhost:44331/Employees/7>
- **To download a report:**
  - Navigation bar, choose “Employee Txt File” and a file named “employee.txt” will be downloaded
  - URL Routing, search “EmployeeTxt”, with id if you want a report about a specific employee. Example <https://localhost:44331/EmployeeTxt>

Problems with program:

One of the most important problems is that if you delete a manager, the employee that has that manager will be deleted too. Other problem is that JSON format for employees do not show the manager name, I got an error when I was trying to add the manager, I saw in book the cause but I did not wanted to break the application.