Final Team Project

Developed by: Centriq Training 06.19.23 Day Cohort

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About the Team

Meet the development team who worked to build this application.

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Project Requirements

Our client, Atomic Synergistics (Technology Vendor and Service Provider), expressed interest in developing their own administrative intranet application that they could use to allow their authorized staff (Administrator, Accounting, Human Resources) to manage their company records. The client also expressed that they wanted the application to contain certain functionality including: 1) a modern administrative dashboard with a clean, consistent look throughout, 2) the ability to display records in attractive tables (along with the ability to sort, page, and search through data within the tables), 3) the ability to create, edit, and delete records, and 4) the ability to register and manage their user accounts and roles.

In a discovery meeting, the development team identified the technical requirements for the application to include .NET 6.0 (long-term support), .NET Core MVC, Microsoft SQL Server Relational Database, and User Account Registration, Login, and Management.

As an internal intranet site used only by the company, this application requires only three levels of users: Administrator, Accounting, and Human Resources. Human Resources only has access to view employee information, whereas Accounting only has access to see certain product and sales information. Both Human Resources and Accounting will have access to creating new records and editing records. The Administrator will have full access to all the information and functions, including full ability to create, edit, and delete records.

Database Schema
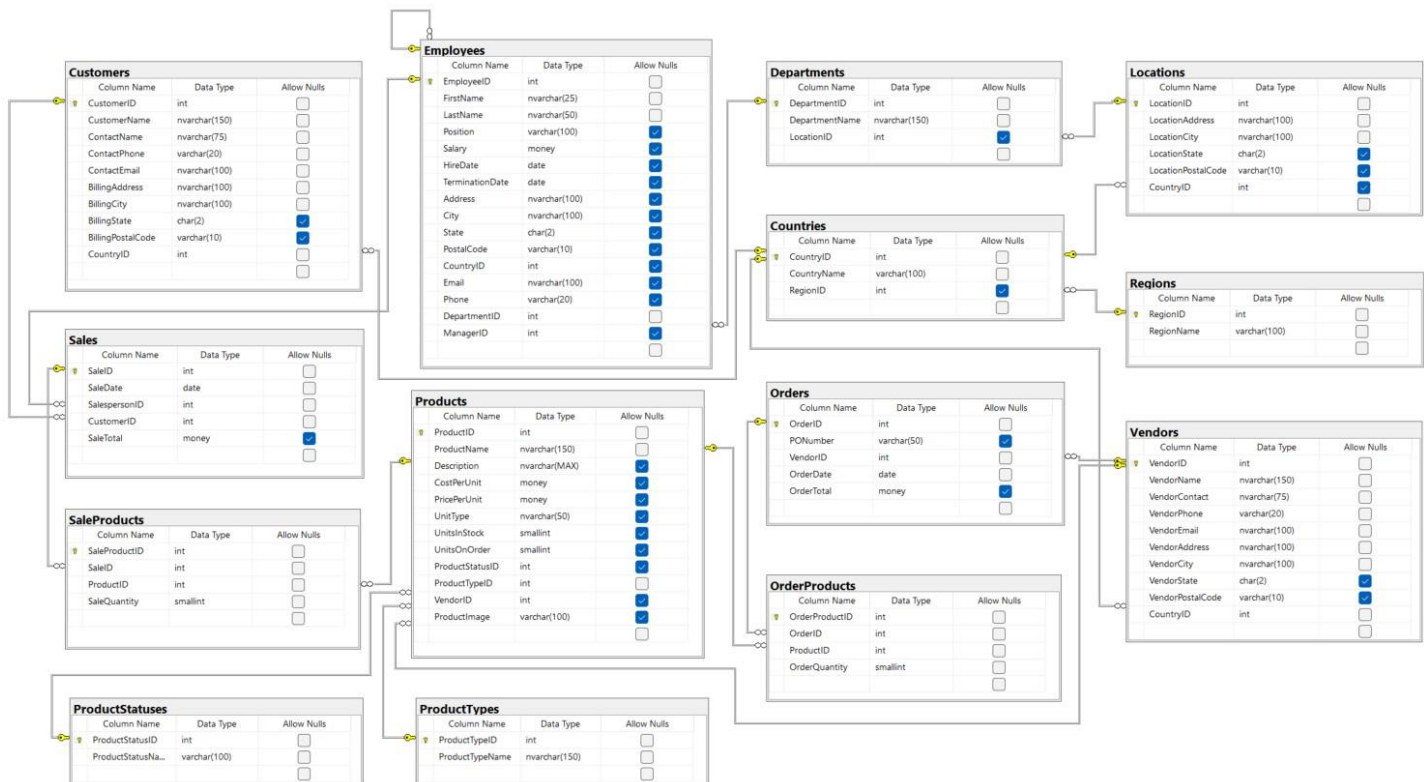
Use Case Diagram

The use case diagram below describes the data that each type of user (Administrator, Accounting, and Human Resources) can access within the web application.
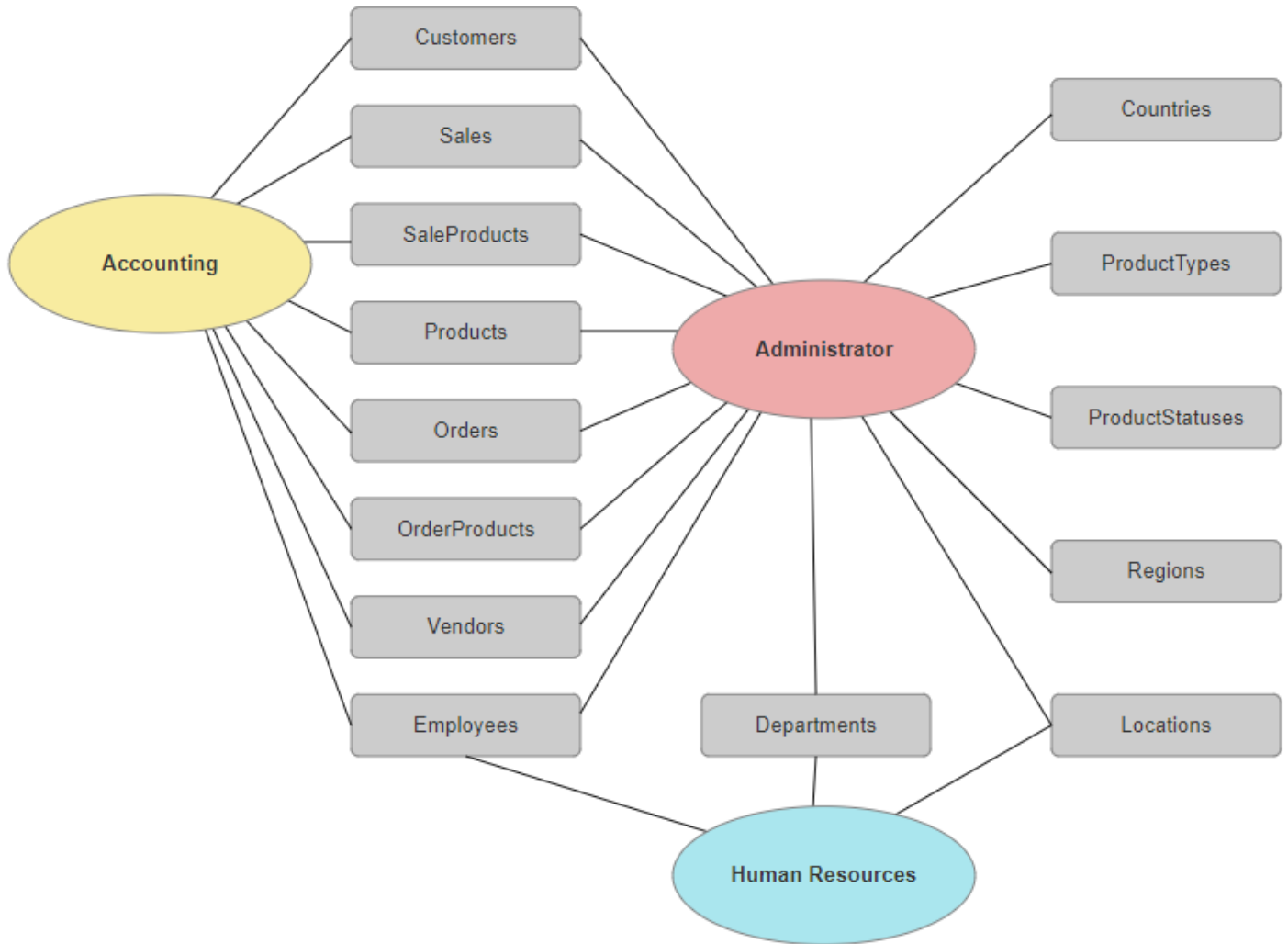
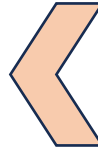# Code Snippets

```
<script>

    $(document).ready(function () {
        $.fn.dataTable.moment('M/D/YYYY');

        $('.table').DataTable({
            dom: 'lBfrtip',
            buttons: [
                'copy', 'csv', 'excel', 'pdf', 'print'
            ]
        })
    });
```
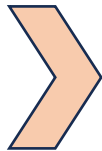
Sort, Page, and Search
Export File

The user can sort records by date or column header, page through records, and utilize the search bar to lookup specific records. The user also has the ability to quickly export the table information into multiple file formats including csv, excel, and pdf.

Use of If Statements

```
@if (User.IsInRole("Accounting") || User.IsInRole("Admin"))
{
    <li class="nav-item">
        <a class="nav-link collapsed" data-bs-target="#products-nav" data-bs-toggle="collapse"
        href="#">
            <i class="bi bi-layout-text-window-reverse"></i><span>Products</span><i class="bi
            bi-chevron-down ms-auto"></i>
        </a>
        <ul id="products-nav" class="nav-content collapse " data-bs-parent="#sidebar-nav">
            @if (User.IsInRole("Accounting") || User.IsInRole("Admin"))
            {
                <li>
                    <a href="@Url.Action("Index", "Products")">
                        <i class="bi bi-circle"></i><span>Products List</span>
                    </a>
                </li>
            }
            @if (User.IsInRole("Admin"))
            {
                <li>
                    <a href="@Url.Action("Index", "ProductStatus")">
                        <i class="bi bi-circle"></i><span>Statuses</span>
                    </a>
                </li>
                <li>
                    <a href="@Url.Action("Index", "ProductTypes")">
                        <i class="bi bi-circle"></i><span>Types</span>
                    </a>
                </li>
            }
        </ul>
    </li>

    <!-- End Products Nav -->
}
```
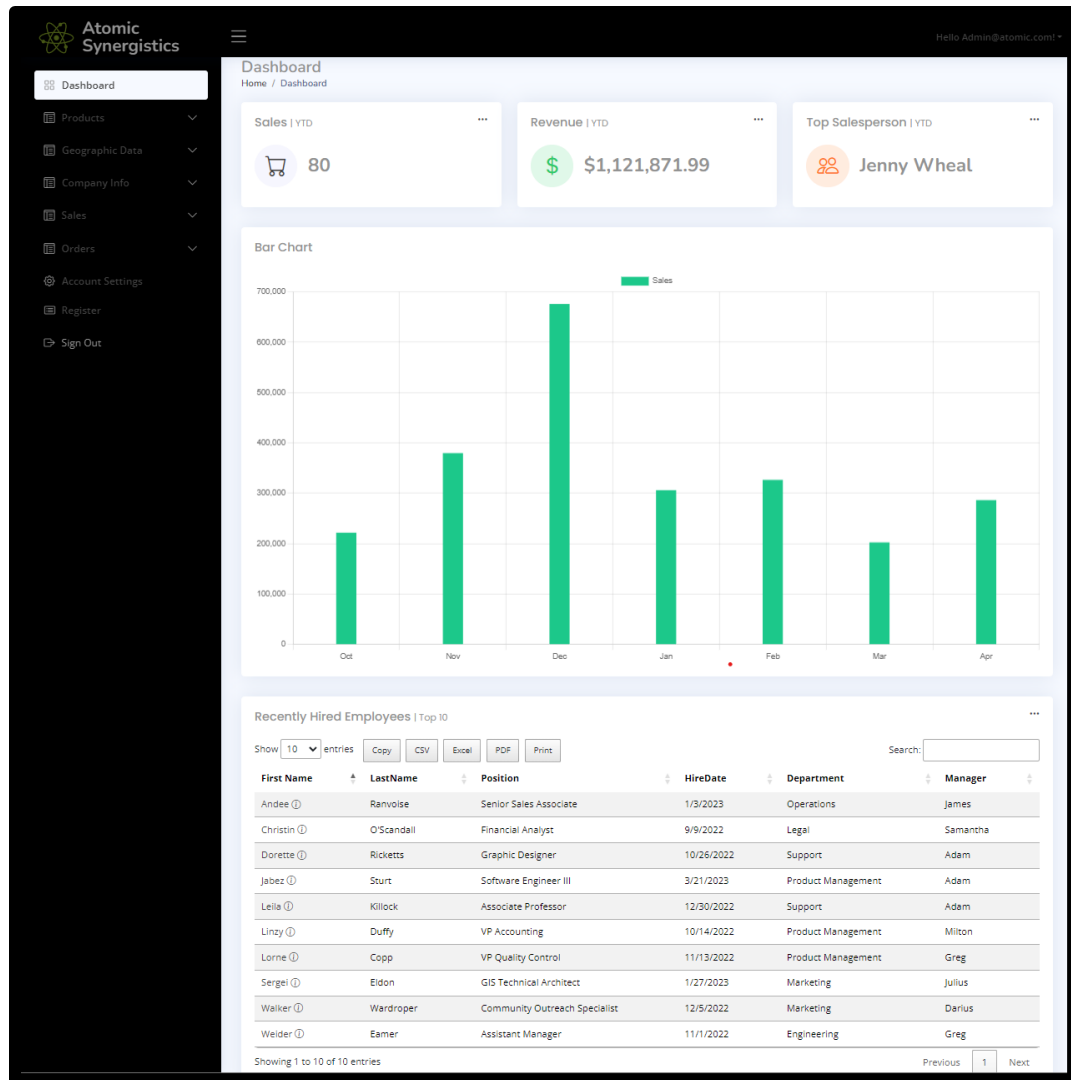
Depending on the user's assigned role (Administrator, Accounting, or Human Resources), the user will have differing access to view, edit, and delete records. If the user is not an Administrator, they will be denied access to deleting records. However, each of the users will have access to creating new records and editing records.

Client UX/UI

Key Processes

Sidebar Navigation – Toggle the hamburger button to access the sidebar navigational links.
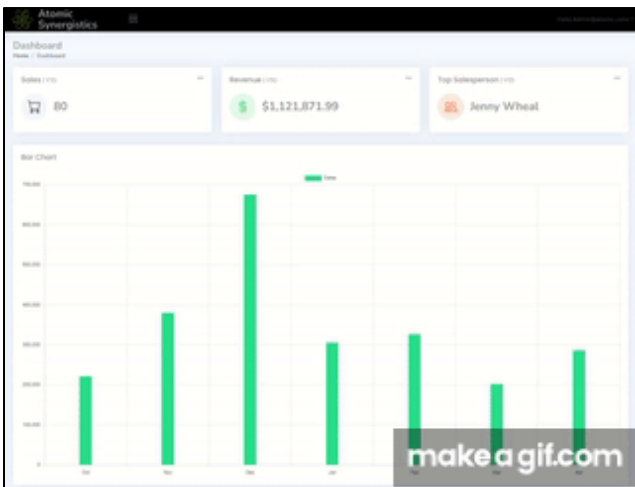
Export File Option – Click the buttons located on the top of the table to quickly export the table into the desired format of choice.

Pages – Use the pagination feature on the bottom right of the table to flip through pages of records.

Sort Records – Sort records by clicking on the column header. The records will sort in either ascending (A-Z) or descending (Z-A) order.

Search Records – Utilize the search bar located at the top right of each table to search for specific record names. The table view will reflect in real time and show records that match any keyword typed into the search bar.

Show Entries – Choose between 10, 25, 50, or 100 records to be displayed at one time per page.

Create New Record – Click the green "Add New" button located at the top of the table. Type in details for each required field, and click the "Create" button at the bottom to create a new record.

Edit & Delete Record– The Edit button and Delete buttons can be found on the right side of the table.

To **Edit** a record, click the "Edit" icon (pencil), and change the applicable fields. Click "Save" to save the updated record.

To **Delete** a record, click the "Delete" icon (trash). The site will ask to confirm which record to delete. Click the red "Delete" button to confirm. **(Admin Only)**

Account Settings – Account settings can be accessed by clicking the name on the top right, or by clicking "Account Settings" from the sidebar.