



Final Team Project

Developed by: Centriq Training 06.19.23 Day Cohort

Presented: Oct 6th, 2023

About the Team

Meet the development team who worked to build this application.



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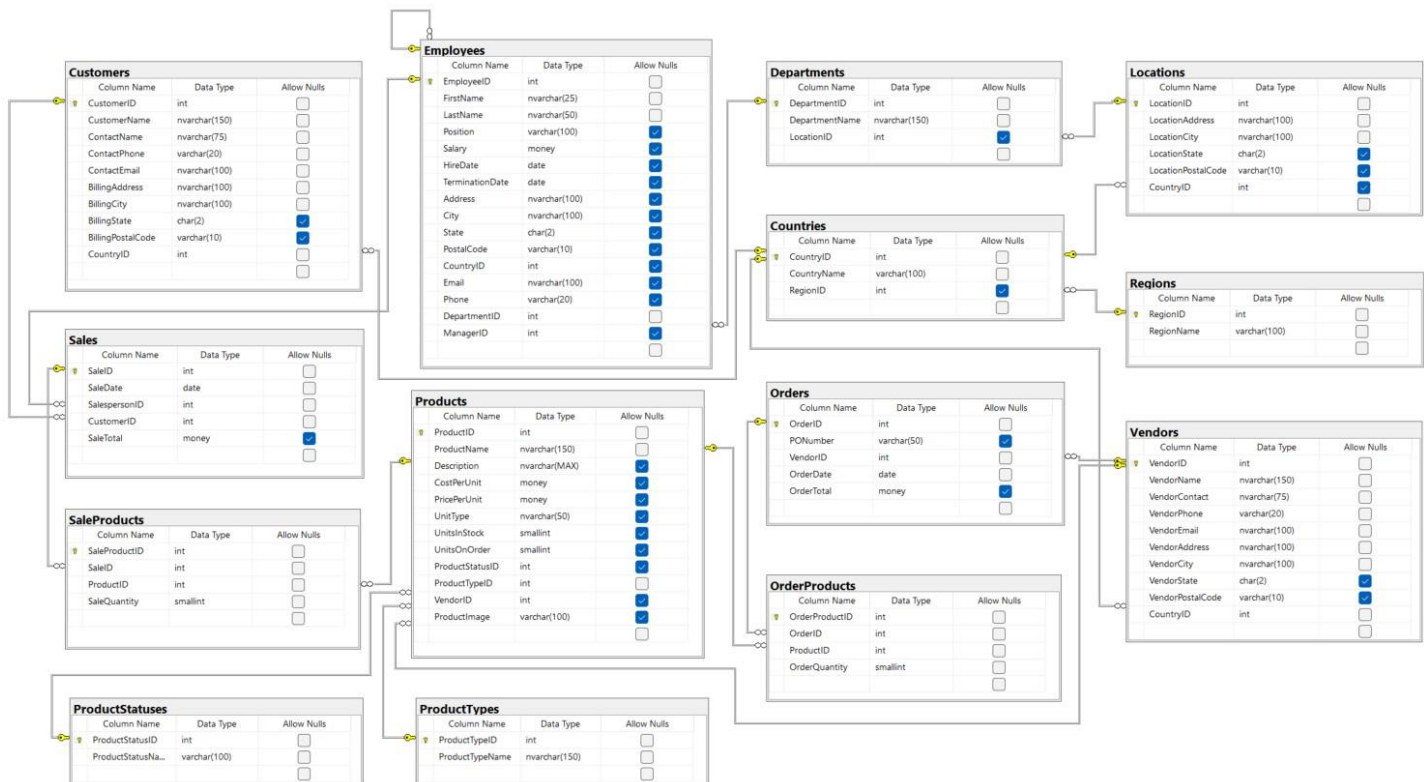
Project Requirements

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.

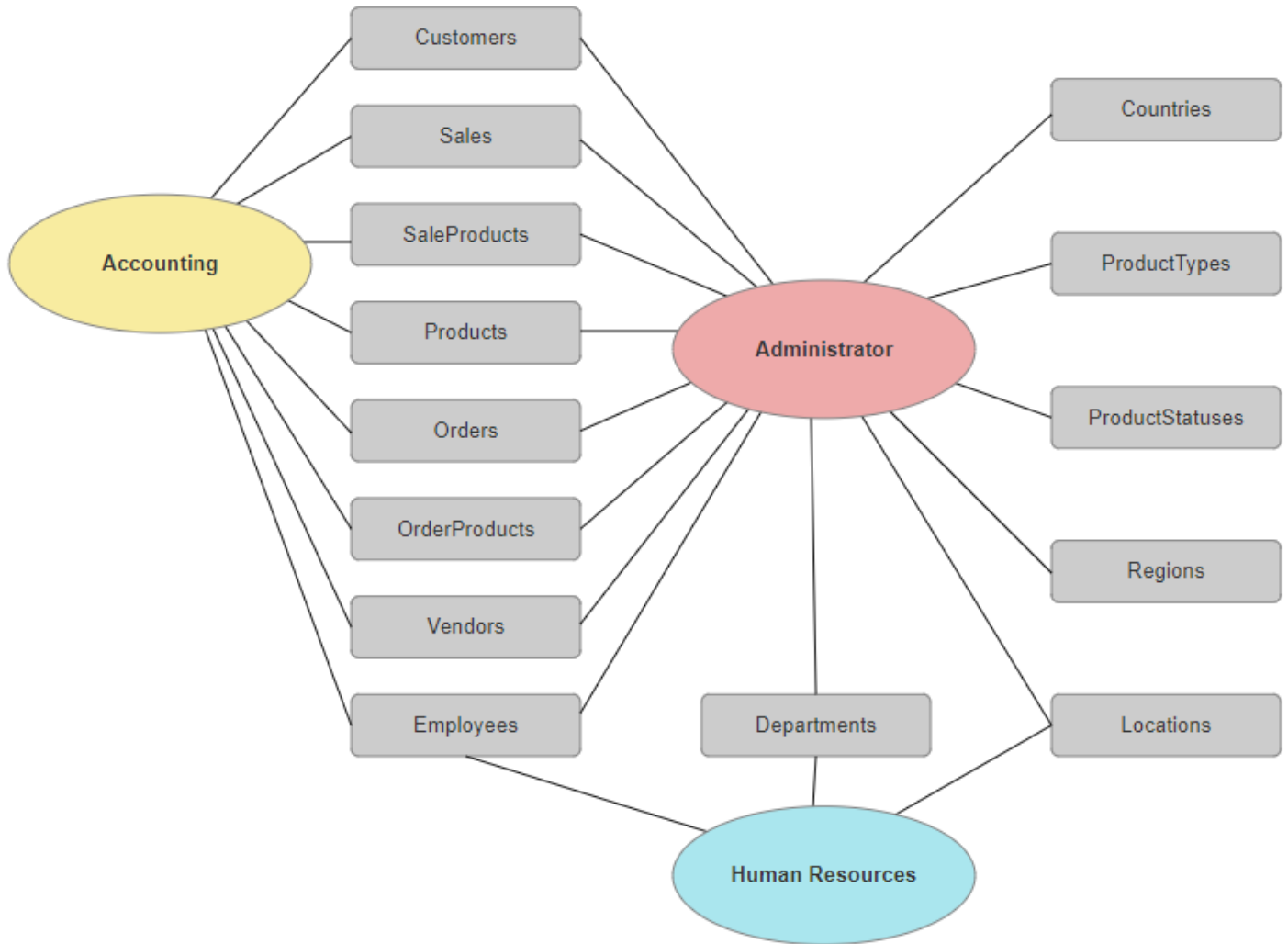
As an internal intranet site used only by the company, this application requires only three levels of users: Administrator, Accounting, and Human Resources. Human Resources only has access to view employee information, whereas Accounting only has access to see certain product and sales information. Both 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.

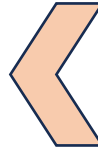


Code Snippets

```
<script>

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

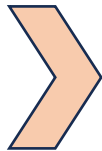
    $('.table').DataTable({
        dom: 'lBfrtip',
        buttons: [
            'copy', 'csv', 'excel', 'pdf', 'print'
        ]
    })
});
```



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

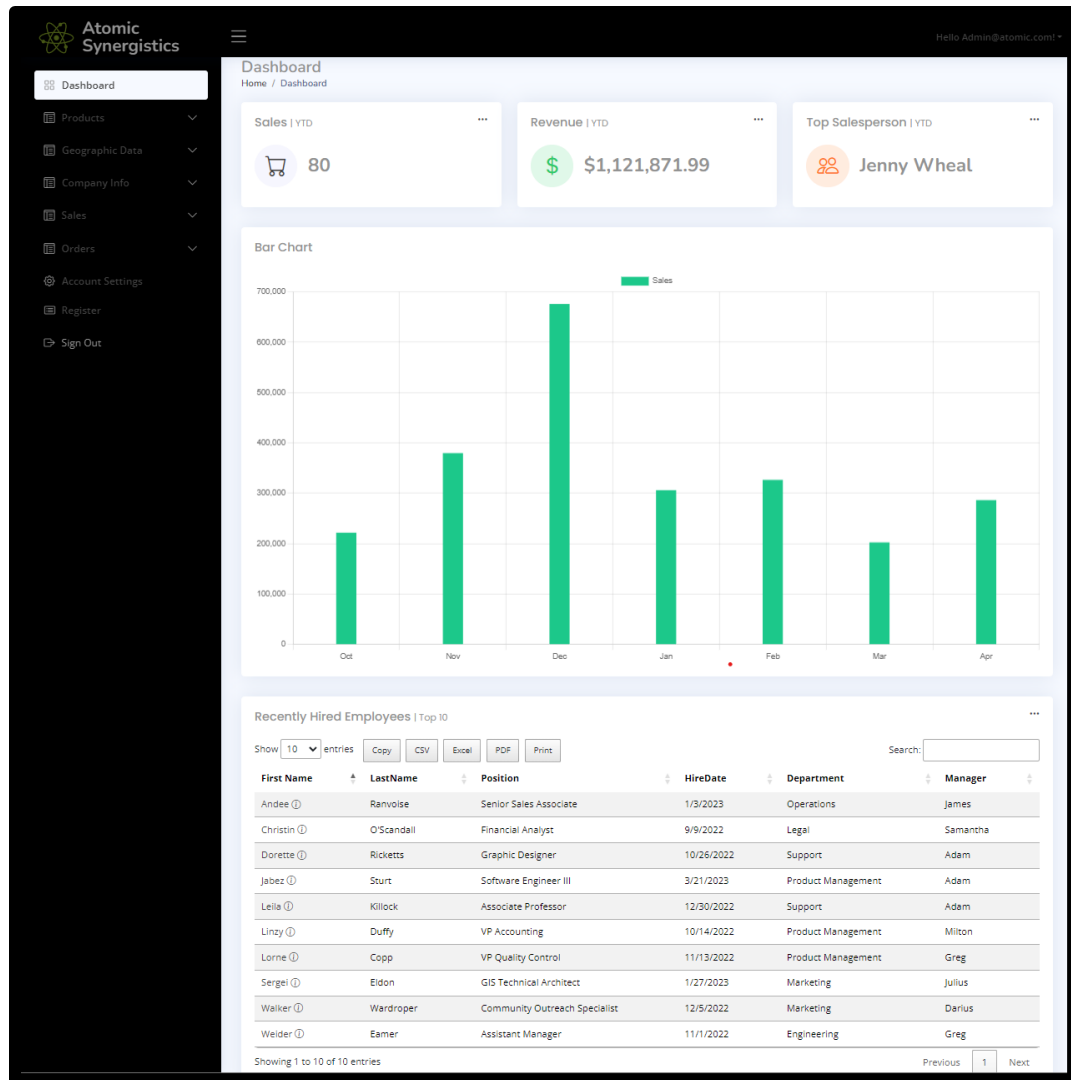


Depending on the user's assigned role (Administrator, Accounting, or Human Resources), the user will have differing access to view, edit, and delete records. If the user is not an Administrator, they will be denied access to deleting records. However, each of the users will have access to creating new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

```
@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 -->
}
```

Client UX/UI



Atomic Synergistics

Login to Your Account

Enter your email & password to login

Email

admin@atomic.com

Password

☐ Remember me?

Login

Forgot your password?

Designed by BootstrapMade

Atomic Synergistics

Profile Settings

Profile

Email

Password

Personal data

Profile

Username

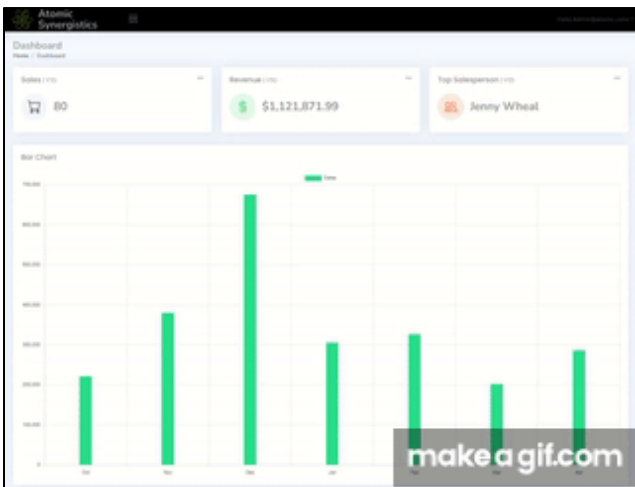
Admin@atomic.com

Phone number

Save

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.

Products

Show 10 entries

Copy CSV Excel PDF Print

Product Name	Cost Per Unit	Price Per Unit	Unit Type	Units On Order	ProductStatus	ProductType	Vendor	Actions
Aerojet Pro Gaming Laptop	\$11.00	\$13.20		1911	In Stock	Networking Device		✓✗
AeroMax Pro Gaming Mouse	\$53.00	\$63.60		0	Discontinued	Productivity Software		✓✗
AeroPodxtreme	\$299.99	\$359.99		5	In Stock	Wearable Tech		✓✗
AeroStream Pro Dual-Band Wi-Fi Router	\$20.00	\$24.00		2013	Out of Stock	Networking Device		✓✗
AeroStream Pro Wi-Fi Extender	\$35.00	\$42.00		2651	In Stock	Productivity Software		✓✗
BeamMaster Pro Laser Printer	\$91.00	\$109.20		591	Out of Stock	Networking Device		✓✗
BioChargeMax	\$79.99	\$95.99		0	Discontinued	Wearable Tech		✓✗
CyberShield Pro VPN Service	\$29.00	\$34.80		2950	In Stock	Smart Home Accessory		✓✗
HoloSyncPro	\$199.99	\$239.99		10	In Stock	Communications Device		✓✗
iGlowTech	\$9.99	\$11.99		100	In Stock	Smart Home Accessory		✓✗

Showing 1 to 10 of 35 entries

Previous 1 2 3 4 Next

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

Products

Show 10 entries

Copy CSV Excel PDF Print

Product Name	Cost Per Unit	Price Per Unit	Unit Type	Units On Order	ProductStatus	ProductType	Vendor	Actions
Aerojet Pro Gaming Laptop	\$11.00	\$13.20		1911	In Stock	Networking Device		✓✗
AeroMax Pro Gaming Mouse	\$53.00	\$63.60		0	Discontinued	Productivity Software		✓✗
AeroPodxtreme	\$299.99	\$359.99		5	In Stock	Wearable Tech		✓✗
AeroStream Pro Dual-Band Wi-Fi Router	\$20.00	\$24.00		2013	Out of Stock	Networking Device		✓✗
AeroStream Pro Wi-Fi Extender	\$35.00	\$42.00		2651	In Stock	Productivity Software		✓✗
BeamMaster Pro Laser Printer	\$91.00	\$109.20		591	Out of Stock	Networking Device		✓✗
BioChargeMax	\$79.99	\$95.99		0	Discontinued	Wearable Tech		✓✗
CyberShield Pro VPN Service	\$29.00	\$34.80		2950	In Stock	Smart Home Accessory		✓✗
HoloSyncPro	\$199.99	\$239.99		10	In Stock	Communications Device		✓✗
iGlowTech	\$9.99	\$11.99		100	In Stock	Smart Home Accessory		✓✗

Showing 1 to 10 of 35 entries

Previous 1 2 3 4 Next

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

Products

Show 10 entries

Copy CSV Excel PDF Print

Product Name	Cost Per Unit	Price Per Unit	Unit Type	Units On Order	ProductStatus	ProductType	Vendor	Actions
Aerojet Pro Gaming Laptop	\$11.00	\$13.20		1911	In Stock	Networking Device		✓✗
AeroMax Pro Gaming Mouse	\$53.00	\$63.60		0	Discontinued	Productivity Software		✓✗
AeroPodxtreme	\$299.99	\$359.99		5	In Stock	Wearable Tech		✓✗
AeroStream Pro Dual-Band Wi-Fi Router	\$20.00	\$24.00		2013	Out of Stock	Networking Device		✓✗
AeroStream Pro Wi-Fi Extender	\$35.00	\$42.00		2651	In Stock	Productivity Software		✓✗
BeamMaster Pro Laser Printer	\$91.00	\$109.20		591	Out of Stock	Networking Device		✓✗
BioChargeMax	\$79.99	\$95.99		0	Discontinued	Wearable Tech		✓✗
CyberShield Pro VPN Service	\$29.00	\$34.80		2950	In Stock	Smart Home Accessory		✓✗
HoloSyncPro	\$199.99	\$239.99		10	In Stock	Communications Device		✓✗
iGlowTech	\$9.99	\$11.99		100	In Stock	Smart Home Accessory		✓✗

Showing 1 to 10 of 35 entries

Previous 1 2 3 4 Next

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.

Products

Show 10 entries

Copy CSV Excel PDF Print

Search:

Product Name	Cost Per Unit	Price Per Unit	Unit Type	Units On Order	ProductStatus	ProductType	Vendor	Actions
Aerojet Pro Gaming Laptop	\$11.00	\$13.20		1911	In Stock	Networking Device		✓✗
AeroMax Pro Gaming Mouse	\$53.00	\$63.60		0	Discontinued	Productivity Software		✓✗
AeroPodxtreme	\$299.99	\$359.99		5	In Stock	Wearable Tech		✓✗
AeroStream Pro Dual-Band Wi-Fi Router	\$20.00	\$24.00		2013	Out of Stock	Networking Device		✓✗
AeroStream Pro Wi-Fi Extender	\$35.00	\$42.00		2651	In Stock	Productivity Software		✓✗
BeamMaster Pro Laser Printer	\$91.00	\$109.20		591	Out of Stock	Networking Device		✓✗
BioChargeMax	\$79.99	\$95.99		0	Discontinued	Wearable Tech		✓✗
CyberShield Pro VPN Service	\$29.00	\$34.80		2950	In Stock	Smart Home Accessory		✓✗
HoloSyncPro	\$199.99	\$239.99		10	In Stock	Communications Device		✓✗
iGlowTech	\$9.99	\$11.99		100	In Stock	Smart Home Accessory		✓✗

Showing 1 to 10 of 35 entries

Previous 1 2 3 4 Next

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

Products

Show 10 entries

Copy CSV Excel PDF Print

Product Name	Cost Per Unit	Price Per Unit	Unit Type	Units On Order	ProductStatus	ProductType	Vendor	Actions
Aerojet Pro Gaming Laptop	\$11.00	\$13.20		1911	In Stock	Networking Device		✓✗
AeroMax Pro Gaming Mouse	\$53.00	\$63.60		0	Discontinued	Productivity Software		✓✗
AeroPodxtreme	\$299.99	\$359.99		5	In Stock	Wearable Tech		✓✗
AeroStream Pro Dual-Band Wi-Fi Router	\$20.00	\$24.00		2013	Out of Stock	Networking Device		✓✗
AeroStream Pro Wi-Fi Extender	\$35.00	\$42.00		2651	In Stock	Productivity Software		✓✗
BeamMaster Pro Laser Printer	\$91.00	\$109.20		591	Out of Stock	Networking Device		✓✗
BioChargeMax	\$79.99	\$95.99		0	Discontinued	Wearable Tech		✓✗
CyberShield Pro VPN Service	\$29.00	\$34.80		2950	In Stock	Smart Home Accessory		✓✗
HoloSyncPro	\$199.99	\$239.99		10	In Stock	Communications Device		✓✗
iGlowTech	\$9.99	\$11.99		100	In Stock	Smart Home Accessory		✓✗





















Showing 1 to 10 of 35 entries

Previous 1 2 3 4 Next

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.

Products

Show 10 entries Copy CSV Excel PDF Print Search:

Product Name	Cost Per Unit	Price Per Unit	Unit Type	Units On Order	Product Status	Product Type	Vendor	Actions
Aerojet Pro Gaming Laptop	\$11.00	\$13.20		1911	In Stock	Networking Device		 
AeroMax Pro Gaming Mouse	\$53.00	\$63.60		0	Discontinued	Productivity Software		 
AeroPodXtreme	\$299.99	\$359.99		5	In Stock	Wearable Tech		 
AeroStream Pro Dual-Band Wi-Fi Router	\$20.00	\$24.00		2013	Out of Stock	Networking Device		 
AeroStream Pro Wi-Fi Extender	\$35.00	\$42.00		2651	In Stock	Productivity Software		 
BeamMaster Pro Laser Printer	\$91.00	\$109.20		591	Out of Stock	Networking Device		 
BioChargeMax	\$79.99	\$95.99		0	Discontinued	Wearable Tech		 
CyberShield Pro VPN Service	\$29.00	\$34.80		2950	In Stock	Smart Home Accessory		 
HoloSyncPro	\$199.99	\$239.99		10	In Stock	Communications Device		 
GlowTech	\$9.99	\$11.99		100	In Stock	Smart Home Accessory		 

Showing 1 to 10 of 35 entries Previous 1 2 3 4 Next

Atomic Synergistics

Create new Product
Required fields MUST be filled

Product Name

Description

Cost Per Unit

Price Per Unit

Unit Type

Units in Stock

Units On Order

Product Status ID
In Stock

Product Type ID
Smart Home Accessory

Vendor ID
33 Emmet Point

Product Image

Create

Back to List

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



















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)**

Employees

Show 10 entries Copy CSV Excel PDF Print Search:

First Name	Last Name	Position	Salary	Hire Date	Termination Date	Department	Manager	Actions
Adam	Synger	Chief Executive Officer	\$348,000.00	1/1/2017		Operations		 
Aida	O'Cuddle	Administrative Assistant IV	\$64,500.00	1/20/2020		Marketing	Darius	 
Alexandra	Jossum	Senior Developer	\$93,500.00	10/11/2019		Training	James	 
Alexandre	Kerton	Business Systems Development Analyst	\$64,500.00	1/5/2021		Accounting	Samantha	 
Alyson	Sully	Nuclear Power Engineer	\$63,000.00	7/26/2020		Support	Lori	 
Andee	Ramrose	Senior Sales Associate	\$73,000.00	1/3/2023		Operations	James	 
Betty	McComgal	Pharmacist	\$79,250.00	4/12/2020		Training	Samantha	 
Bette-ann	Streight	Financial Analyst	\$82,600.00	6/29/2019		Training	Loretta	 
Bill	Kapmann	Statistician II	\$81,700.00	3/19/2019		Product Management	James	 
Emily	Partner	Help Desk Technician	\$61,900.00	6/19/2020		Engineering	Lori	 

Showing 1 to 10 of 67 entries Previous 1 2 3 4 5 6 7 Next

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

Atomic Synergistics

Admin@atomic.com

Account Settings

Register

Sign Out

Profile Settings

Profile

Email

Password

Personal data

Profile

Username
Admin@atomic.com

Phone number

Save

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