MyEcommerceSite Apps -> An Ecommerce site, three SaaS internal business tools: MyEcommerceSite Employee App, MyEcommerceSite Manager App, MyEcommerceSite Developer App, with Postgres, Stripe API, and the Retool low-code platform, with order management dashboard, an employee dashboard, and a developer portal. The business tools are built with the Retool platform, which is a drag-and-drop no-code editor with many pre-built components to build internal CRUD (create, read, update, delete) apps. Functionalities/Demo:

- <u>An application used by employees, an application used by managers, and an application used by developers,</u> all linked to one database for a small to medium-sized company.
- Useful internal business Apps to run an e-commerce store from the backend or office-side.
- The Apps will display all items in our inventory to sell, acquiring data from the database.
- Each item for sale has an image, a description, a URL, and a unique SQ or identifier for data management that allows us to manage the purchase made by customers.
- Searching for orders and issuing refunds based on Stripe API integration.
- Emailing customers with auto-generated texts with custom JavaScript as well as SMTP API
- Viewing the general analytics of the Revenue Tracker.
- A B2B app which offers additional developer friendly functionalities, such as being able to facilitate orders made through API by displaying the endpoints.

## **Developing tools:**

#### Retool

https://retool.com/?\_keyword=retool&adgroupid=77096230789&utm\_source=google&utm\_medium=search&utm\_campaign=6470119914&utm\_term=retool&utm\_content=595361152454&hsa\_acc=7420316652&hsa\_cam=6470119914&hsa\_grp=77096230789&hsa\_ad=595361152454&hsa\_arc=g&hsa\_tgt=kwd-395242915847&hsa\_kw=retool&hsa\_mt=e&hsa\_net=adwords&hsa\_ver=3&gclid=Cj0KCQjwnbmaBhD-ARIsAGTPcfX8vZvorXMWz7qQCZeaEcR4kU76cuVnJFbkDYI-RHGT-ScmvwSPCNwaAlMdEALw\_wcB

PostgreSQL Database https://github.com/kubowania/mobee-psql-data/blob/main/postgres.sql Stripe https://stripe.com

Stripe Testing Documentation https://stripe.com/docs/terminal/references/testing

SMTP Email Relay Services <a href="https://www.smtp.com/">https://www.smtp.com/</a>

REST API Generator <a href="https://retool.com/api-generator/">https://retool.com/api-generator/</a>

#### Prerequisites & Setup:

Create an account on ReTool, along with creating an URL name for the workspace.

Create the App MyEcommerceSite Employee App. Delete the default guery and table.

Create a new container that holds for employee's inventory tables.

Same setups for MyEcommerceSite Manager App and MyEcommerceSite Developer App.

#### **Synchronous Developing Notes:**

MyEcommerceSite Employee App:

Customize the essential containers and list views:

### containers list views customized.PNG

Create a new resource query underneath and paste PostgreSQL in.

To manage sales order data, create a new resource query getSalesOrders:

SELECT \* from salesorder;

Save and run, the sales order queries ran successfully:

```
query ran successfully.PNG
Retrieve sales data with {{ getSalesOrders.data}} in orderTable.
To get employees ID, create a new resource query getEmployees:
SELECT * from employee; {{getEmployees.data}}
Save and run, now all employees info data are fetched:
employees info data fetched.PNG
Create a new resource query for inventory named getInventory:
SELECT * from product;
Save and run, now all inventory data are fetched:
inventory data fetched.PNG
Replace the number of rows with {{qetInventory.data.productid.length}}
Replace the product photo's URL with {{qetInventory.data.photo[i]}}
Replace the product name with { getInventory.data.productname[i] } }
Replace the price value with {qetInventory.data.unitprice[i]}}
Replace the description with {{ getInventory.data.productdescription[i] }}
To get products info, create a new resource query getProduct:
SELECT * FROM product WHERE productid =
ANY({{getSalesOrderDetail.data.productid}})
product details displayed when click on order ID.PNG
Add customized site logo:
MySiteLogo.PNG
To fetch customer data, create a new resource query getCustomer:
SELECT * FROM customer WHERE custid = {{
OrderTable.selectedRow.data.custid}}
Create Refunds for certain customers with data from guery:
Create Refund for {{getCustomer.data.contactname}}
Get the refund order details:
 
This is for order number {{OrderTable.selectedRow.data.orderid}} made
on {{new Date(OrderTable.selectedRow.data.orderdate).toDateString()}}
refund order details.PNG
Fetch to display the shipment data:
This order was shipped on the {{new
Date(OrderTable.selectedRow.data.shippeddate).toDateString()}} to
{{OrderTable.selectedRow.data.shipaddress}}
shipment details fetched.PNG
We need a JavaScript Transformer to hold the email text:
const message = `Dear ${ {{ getCustomer.data.contactname[0]}} },
I am so sorry that your was ${ {{refundSelectInput.value}} },
Please rest assured that your refund of ${ {{currency1.value}}} } USD
has been authorized and shall be with you in 1-5 business days.
Have a wonderful rest of the day!
```

```
return message
```

Now the customized email composing session is completed: **email composition is done.PNG**Obtain a fake charge ID by submitting a fake payment method on Stripe.

Then create a new Stripe resource on Retool with the Stripe test API key. Test Connection.

Create postRefund query based on Stripe resource, and enter the refunding amount:

## refund email auto-generated.PNG

Configure SMTP with Microsoft Outlook since Gmaili prevents 3rd-party-access:

https://www.saleshandv.com/smtp/outlook-smtp-settings/

Then Authorize the outlook Protocol SMTP, add to sendEmail resource, add confetti effect:

Now SMTP POST authorization and confetti effect worked when click Send Email:

## smtp send email works.PNG

And also a refund regarding order email shows:

#### refund regarding order email shows.PNG

MyEcommerceSite Admin App:

Customize the employee editing section:

#### initial customization of the admin employee.PNG

Create a new manage db resource query getEmployee to fetch employee's data:

```
SELECT * from employee
```

### fetched employee data.PNG

```
Get number of employees in list view:
```

```
{{getEmployees.data.empid.length}}
```

# Loop to get the employee's photos:

```
{{getEmployees.data.photo[i]}}
```

Loop to get the first and last name of the employees:

```
{{getEmployees.data.firstname[i]}}
{{getEmployees.data.lastname[i]}}
```

## all employee's data fetched.PNG

Create a new query updateEmployee to fetch the update button effect:

```
UPDATE employee
SET firstname = {{textInput1.value}},
    lastname = {{textInput2.value}},
    title = {{textInput3.value}},
    birthdate = {{textInput4.value}},
    hiredate = {{textInput5.value}},
    address = {{textInput6.value}},
    city = {{textInput7.value}},
    region = {{textInput8.value}},
    postalcode = {{textInput9.value}},
    country = {{textInput10.value}},
    phone = {{textInput11.value}},
    empid = {{numberInput1.value}}
    WHERE empid = {{text14.value}}
```

Add some trigger confetti effect on the Update button, now if change Sara to Sarah:

```
update employee info successfully-1.PNG update employee info successfully-2.PNG
Create a new query deleteEmployee to delete employees:
DELETE FROM employee WHERE empid= {{text14.value}}
Create a new query getInventory to get inventories:
SELECT * FROM product
Create a new query addProduct to add products into the inventory list:
INSERT INTO product (productid, productname, productdescription,
unitprice, unitsinstock, photo)
VALUES({{numberInput2.value}}, {{textInput12.value}},
{{textArea1.value}}, {{numberInput3.value}}, {{currency1.value}},
{{textInput13.value}})
Add a testing Samsung phone product to see if product adding function works:
samsung phone test product added.PNG
Create a new query deleteProduct to delete products in Inventory list:
DELETE from product WHERE productid
{{InventoryTable.selectedRow.data.productid}}
Now delete the test product:
test product deleted.PNG
Revenue Tracker:
Create a new Query JSON with SQL:
SELECT * FROM {{formatDataAsArray(getOrderDetail.data)}} as detail
JOIN {{formatDataAsArray(getSalesOrders.data)}} as orders
ON orders.orderid = detail.orderid
Now the order id fetched:
order id fetched.PNG
Use {{joinedRevenueData.data}} to import revenue data.
revenue tracker final look-1.PNG
revenue tracker final look-2.PNG
MyEcommerceSite Developer App:
Map Data for sales order table:
 [ {
    "Method Type": "GET",
    "Endpoint": ".../sales orders/",
    "Action": "Copy"
  },
    "Method Type": "GET filter",
    "Endpoint": ".../sales orders?id=value",
    "Action": "Copy"
  },
  {
    "Method Type": "GET pagination",
```

```
"Endpoint": ".../sales_orders?_page=2&limit10",
   "Action": "Copy"
},
{
   "Method Type": "POSTr",
   "Endpoint": ".../sales_orders",
   "Action": "Copy"
},
{
   "Method Type": "PUT",
   "Endpoint": ".../sales_orders/",
   "Action": "Copy"
},
{
   "Method Type": "DELETE",
   "Endpoint": ".../sales_orders/1",
   "Action": "copy"
}]
```

Create getSalesOrderData query to fetch sales order data:

SELECT \* from salesorder

Generate new sales\_orders API from Rest API tools website on Retool.

The URLs of all actions can be copied:

urls of actions can be copied.PNG

Follow the same steps above to get Customers and Employees data:

**Developer Portal sales order final look.PNG** 

**Developer Portal customers final look.PNG** 

**Developer Portal employees final look.PNG**