



## Inventory Management System

### ABOUT SUTRAPLUS

A Sutra Plus is a web-based tool merchants and businesses use to access and track transaction data in real-time and manage operations, sales, and customer interactions. It simplifies critical processes requires to manage merchants of all types and sizes swiftly and efficiently

- ✓ Centralize and automate your inventory system.
- ✓ Track inventory, supplies, materials, and more.
- ✓ Perfect for small business inventory management.

### TASK ON HAND



To Implement  
Dev Express  
(Single Report data)



Add Calculations  
(Fetch, Combine data  
from multiple tables

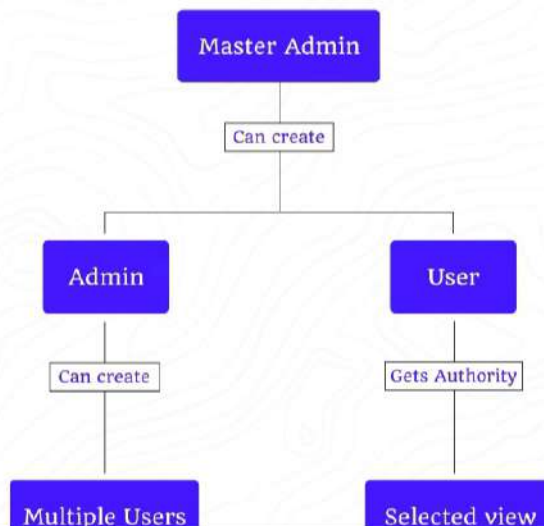


Solve Bugs in  
Existing Project  
(All Pages)

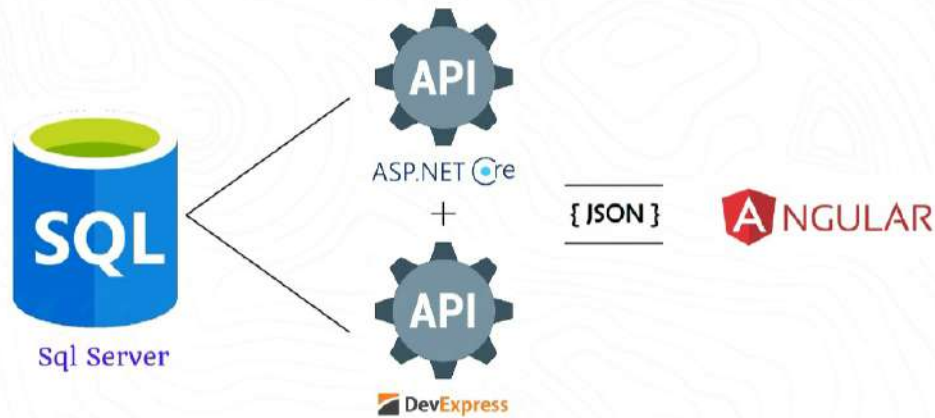


To Implement  
Dev Express  
(Multiple Report data)

### USER TYPES



## 3-TIER ARCHITECTURE DEVELOPMENT



## KEY COMPONENTS



We Implemented Dev Express to show company Reports, Invoice Reports, purchase return, sales return etc

The screenshot shows a DevExpress report interface. On the left, there is a sidebar with 'EXPORT OPTIONS' including CSV, HTML, IMAGE, MHT, PDF, RTF, TEXT, XLS, XLSX, and DOCX. The main area displays a report titled 'AND COMPANY' with 'A.P.J.C. Yard' and 'Bydgi 281104'. Below the title is a table with columns: Month, Bag/Vol, Rate/Vol, SGT, CGST, and IGST. The table contains data for various months from March 2022 to March 2023, with values for bags, rates, and taxes.

Month	Bag/Vol	Rate/Vol	SGT	CGST	IGST
March-2022	54768917000	54768917000	45.841.943.651.30	45.841.943.651.30	242.135.825.18
April-2022	251121143	251121143	2.599.770.32	2.599.770.32	7.281.415.09
May-2022	243170246	243170246	3.305.129.36	3.305.129.36	5.517.556.60
June-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
July-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
August-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
September-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
October-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
November-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
December-2022	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
January-2023	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
February-2023	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60
March-2023	311312348	311312348	3.305.129.36	3.305.129.36	5.517.556.60

## PROBLEM & SOLUTIONS

### Problems

- ✗ Add External filter Eventthough filter is in dev express, user gets easy access to filter data
- ✗ Total amount should be calculated automatically on the basis of Inventory item like no. of bags, Total quantity, rate.
- ✗ Validation was not there
- ✗ Huge amount of bugs were there

### Solutions

- ✓ Used Angular for external filter  
Front end -> Back end -> Passed report as parameter value
- ✓ Made custom formula / condition for calculations
- ✓ Done Proper validation
- ✓ Solved All Bugs

## SCREENSHOTS OF SUTRAPLUS

### Add Invoice

Here User/Admin will add inventory details like party name, item, total qty, rates etc.

### Add Lorry Details

Here User/Admin will add lorry details like transporter name, lorry no, delivery address etc.

### Invoice List

After adding Invoice and lorry details here it will show all invoice details

Sr. No.	Date	Invoice No.	Party Name	Amount	Action
1	31-02-2023	43	A K Bhanderi	3232728.00	<a href="#">Edit</a> <a href="#">Print</a>
2	31-02-2023	49	Supreme Trading Company	141.00	<a href="#">Edit</a> <a href="#">Print</a>
3	31-02-2023	47	Supreme Trading Company	171.00	<a href="#">Edit</a> <a href="#">Print</a>
4	31-02-2023	42	Supreme Trading Company	553.00	<a href="#">Edit</a> <a href="#">Print</a>
5	31-02-2023	41	Supreme Trading Company	553.00	<a href="#">Edit</a> <a href="#">Print</a>
6	17-02-2023	49	Unigreen Foods India Pvt Ltd	5544300.00	<a href="#">Edit</a> <a href="#">Print</a>
7	18-02-2023	49	Om Oil And Flour Mills Ltd	4682154.00	<a href="#">Edit</a> <a href="#">Print</a>
8	07-02-2023	48	Om Oil And Flour Mills Ltd	5551721.00	<a href="#">Edit</a> <a href="#">Print</a>
9	07-02-2023	37	Om Oil And Flour Mills Ltd	4048300.00	<a href="#">Edit</a> <a href="#">Print</a>
10	06-02-2023	36	Om Oil And Flour Mills Ltd	2682362.00	<a href="#">Edit</a> <a href="#">Print</a>
11	27-02-2023	35	Unigreen Foods India Pvt Ltd	4799300.00	<a href="#">Edit</a> <a href="#">Print</a>
12	31-02-2023	34	Unigreen Foods India Pvt Ltd	4410300.00	<a href="#">Edit</a> <a href="#">Print</a>
13	14-02-2023	33	Unigreen Foods India Pvt Ltd	4005300.00	<a href="#">Edit</a> <a href="#">Print</a>
14	12-01-2023	32	Aacharya Foods Pvt Ltd	1417500.00	<a href="#">Edit</a> <a href="#">Print</a>
15	13-01-2023	31	Aacharya Foods Pvt Ltd	4410300.00	<a href="#">Edit</a> <a href="#">Print</a>

## Akada Entry

Here, how much Items are sold, details will be add and shown respectively

Financial Year: 2022-2023

Bazar Purchase

Date

02/25/2024

Commodity

Dry Chilies

Party

Supreme Trading Company

Lot No

1

Bags

23

Rate

10000

Mark

PL

Total Weight

15000

Amount

150000

Options

Issue Lot

Submit

S.No	Lot No	No of bags	Rate	Weight	Amount	Mark	Total Bags
1	1	23	10,000.00	15000	1,500,000.00	PL	Total Weight
2	1	14	1,500.00	5620	84,300.00	PL	Total Amount
3	1	12	10,000.00	1200	120,000.00	PL	Packing
4	1	12	15,000.00	1500	225,000.00	SFD-Hamali	
5	1	6545	554.00	121	575.80	S4	Weightman Fee
6	1	15	1,500.00	1050	15,750.00	PL	Commission
7	2	12	1,444.00	151	2,166.44	PL	Deas
8	2	14	1,500.00	1510	22,650.00	PL	Taxable Value
9	3	11	11,000.00	121	13,310.00	AA	
10	105	9	100.00	100	100.00	PL	SGST
11	105	9	15,000.00	13092.53	1,963,879.50	PL	CGST
12	105	9	15,000.00	13092.53	1,963,879.50	PL	Round Off
13	105	9	15,000.00	13092.53	1,963,879.50	PL	Grand Total
Total		6694		55650.59	7,075,685.74		

6694

15000

7875605.74

75.00

72.75

22.50

315.00

94.50

16329.75

408.24

408.24

-0.23

17146.00

## Verify bills

After adding akada entry user/admin will verify bill order wise

From: 03/12/2024 To: 03/12/2024 Filter Print

S.No	Date	Party Name	Total Bags	Total Weight	Dastard	Net Amount	Bill Number	GSTIN	Action	
1	2024-02-21	A D Builders	0	0	0.00	0.00	<input type="text" value="Enter Bill Number"/>	29ABCF6A8BAC12B	<a href="#">Edit</a> <a href="#">Update</a>	
2		S M Patel	403	551202943	1805.81	8,448,900.00	0.00	<input type="text" value="Enter Bill Number"/>	79ADYPM464R12H	<a href="#">Edit</a> <a href="#">Update</a>
3	2024-02-11	S M Patel	56	2091.944	9999199997	33,244.31	0.00	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12D	<a href="#">Edit</a> <a href="#">Update</a>
4	2024-02-22	S M Patel	26	538	12,432.74	0.00	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12B	<a href="#">Edit</a> <a href="#">Update</a>	
5	2024-02-21	S M Patel	24	2126	22,575.12	0.00	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12D	<a href="#">Edit</a> <a href="#">Update</a>	
6	2024-02-23	S M Patel	19	1500	2,250.00	0.00	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12B	<a href="#">Edit</a> <a href="#">Update</a>	
7	2024-02-25	S M Patel	252	31007	2,436,091.04	0.00	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12B	<a href="#">Edit</a> <a href="#">Update</a>	
8	2024-02-27	S M Patel	15	100.44	10,044.00	0.00	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12H	<a href="#">Edit</a> <a href="#">Update</a>	
9	2024-03-11	S M Patel	14	36967.41	0.00	106.50	<input type="text" value="Enter Bill Number"/>	29ADYPM464R12B	<a href="#">Edit</a> <a href="#">Update</a>	
10		Supreme Trading Company	36	29077.59	0000000004	5,051,738.50	0.00	<input type="text" value="Enter Bill Number"/>	29AADFS3715J12L	<a href="#">Edit</a> <a href="#">Update</a>
11	2024-02-23	Supreme Trading Company	39	15151	1,502,166.44	0.00	<input type="text" value="Enter Bill Number"/>	29AADFS3715J12L	<a href="#">Edit</a> <a href="#">Update</a>	
12	2024-02-15	Supreme Trading Company	15	1050	15,750.00	0.00	<input type="text" value="Enter Bill Number"/>	29AADFS3715J12L	<a href="#">Edit</a> <a href="#">Update</a>	
13	2024-02-27	Supreme Trading Company	37	3131	260,993.00	257,003.47	<input type="text" value="Enter Bill Number"/>	29AADFS3715J12L	<a href="#">Edit</a> <a href="#">Update</a>	
14	2024-02-18	Supreme Trading Company	14	5620	84,300.00	0.00	<input type="text" value="Enter Bill Number"/>	29AADFS3715J12L	<a href="#">Edit</a> <a href="#">Update</a>	

## Report Generator

From here we can see all page reports like purchase, sales, debit note etc at one place

Select Month: Select Month From: 03/01/2022 To: 04/31/2022

Print Registers

Party Name

Select Party

Purchase

Sales

Purchase Return

Debit Return

Credit Note

Debit Note

Bill and Registers

Party Name

Select Party

Purchase

Sales

Purchase Return

Sales Return

Credit Note

Debit Note

Party Wise Reports

Commission and Bank

Cost Report

Print Party Personal Details

Group Name

Select Group

13 / 45

Restart R