

CSC 107 2.0

Introduction to Computer Programming

Final Assignment

PROJRCT REPORT

XYZ DISTRIBUTORS

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2. Functionality of the system
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INTRODUCTION....

XYZ Distribution system is mainly developed to platform the tasks given below,

- Input salesmen and vehicles details
- Input stock details
- Loading details
 - Input loading details
 - Display loading details
- Unloading details
 - Input unloading details
 - Display unloading details
- Sales

FUNCTIONALITY SYSTEM

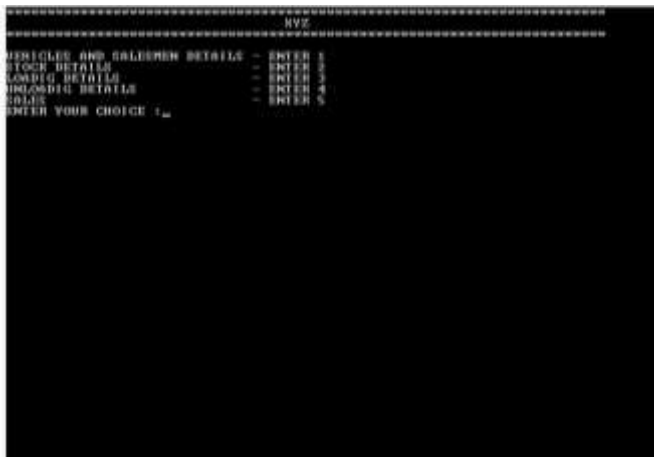
1. Welcome page (main_page function)



This is first page in this system. This function call to main() function.

Continue to system press "1".

2. Main menu



This is main menu in this system.

There are five choices available here.

Choices are given below

- Vehicles and salesmen details
- Stock Details
- Loading Details

- Unloading Details
- Sales

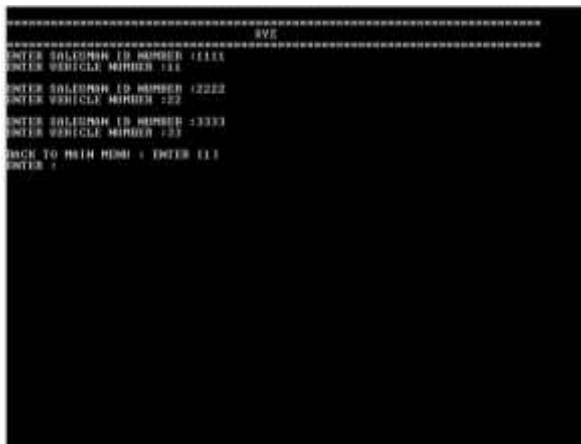
3. Vehicle and Salesmen Details



We can enter three salesman ID numbers and their vehicles.

I suppose that the same salesman uses the same vehicle.

Then if you want to return main menu , you can enter '1'.



4. Stock

If you want to add initial stock or display initial stock, you can follow below instructions.

```
*****
***** RVZ *****
*****
INPUT STOCK DETAILS - ENTER [1]
DISPLAY STOCK DETAILS - ENTER [2]
ENTER :
```

Add initial stock – Enter ‘1’

Display initial stock – Enter ‘2’

After add initial stock, enter ‘1’ then can back to main menu. As well as after display stock, enter ‘1’ then can back to main menu.

5. Loading

```
*****
***** RVZ *****
*****
VEHICLES AND SALESMEN DETAILS - ENTER 1
STOCK DETAILS - ENTER 2
LOADING DETAILS - ENTER 3
UNLOADING DETAILS - ENTER 4
SALES - ENTER 5
ENTER YOUR CHOICE :3
INPUT LOADING DETAILS - ENTER [1]
PRINT LOADING DETAILS - ENTER [2]
```

Enter ‘1’ to add loading items.

Loading items can only be added if the correct salesman ID number, correct vehicle number and the correct item number are added.

After addition, Enter ‘1’ can back to main menu.

Enter ‘2’ to display loading items. After, Enter ‘1’ and can back to the main menu.

6. Unloading

```
*****
XYZ
*****
VEHICLES AND SALESMEN DETAILS - ENTER 1
STOCK DETAILS                 - ENTER 2
LOADING DETAILS               - ENTER 3
UNLOADING DETAILS             - ENTER 4
SALES                         - ENTER 5
ENTER YOUR CHOICE :4
INPUT UNLOADING DETAILS - ENTER [1]
PRINT LOADING DETAILS  - ENTER [2]
ENTER:
```

Enter '1' to add unloading items.

Unloading items can only be added if the correct salesman ID number, correct vehicle number and the correct item number are added. As well as the unloading amount should be less than loading amount. If these conditions are not true, can't add unloading.

After addition, Enter '1' can back to main menu.

Enter '2' to display unloading items. After, Enter '1' and can back to the main menu.

7. Sales

```
*****
XYZ
*****
VEHICLES AND SALESMEN DETAILS - ENTER 1
STOCK DETAILS                 - ENTER 2
LOADING DETAILS               - ENTER 3
UNLOADING DETAILS             - ENTER 4
SALES                         - ENTER 5
ENTER YOUR CHOICE :5
SALES                         - ENTER[1]
MONTHLY SALES & AVAILABILITY - ENTER[2]
ENTER :_
```

There are two choices in Sale.

Enter '1' - Salesmen progress are shown.

The amount that one salesman has sold per item is shown.

These are shown that both tabular form and graphs.

In tabular format, Final rows shown total of each column.

```

=====
RVE
=====
COL 1 - SALESPMAN ID : 1111
ITEM NO : 1001

COL 2 - SALESPMAN ID : 1111
ITEM NO : 1002

COL 3 - SALESPMAN ID : 2222
ITEM NO : 1001

COL 4 - SALESPMAN ID : 2222
ITEM NO : 1002

COL 5 - SALESPMAN ID : 3333
ITEM NO : 1001

COL 6 - SALESPMAN ID : 3333
ITEM NO : 1002

SALES

DATE COL 1 COL 2 COL 3 COL 4 COL 5 COL 6
1 50 50 150 50 150 250
50 50 150 50 150 250

PERFORMANCE

SALESPMAN ID : 1111
ITEM NO : 1001
ITEM NO : 1002
Total
SALESPMAN ID : 2222
ITEM NO : 1001
ITEM NO : 1002
Total
SALESPMAN ID : 3333
ITEM NO : 1001
ITEM NO : 1002
Total
BACK TO MAIN MENU : ENTER (1)
ENTER :

```

Enter '2' – Report in selling items.

Sales of items are shown for the relevant day.

Stock availability is shown for the relevant day.

```

=====
RVE
=====
DATE: 1 to 1 SALE & AVAILABILITY


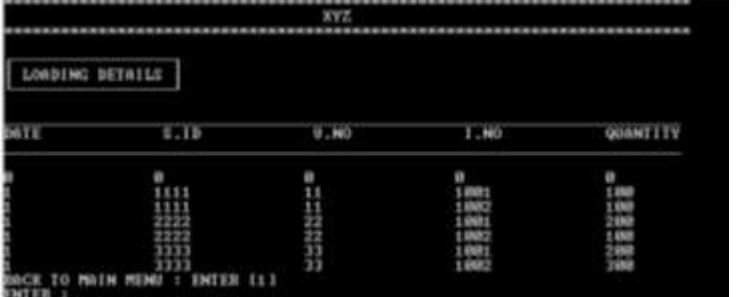
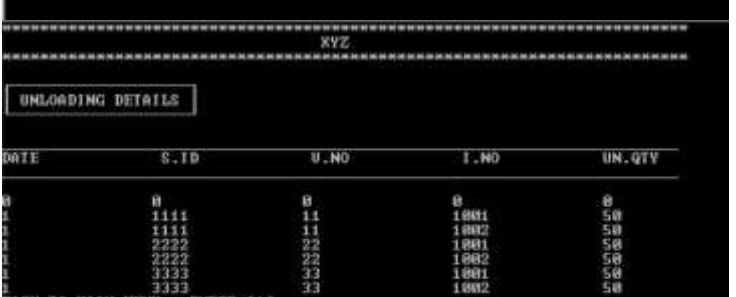
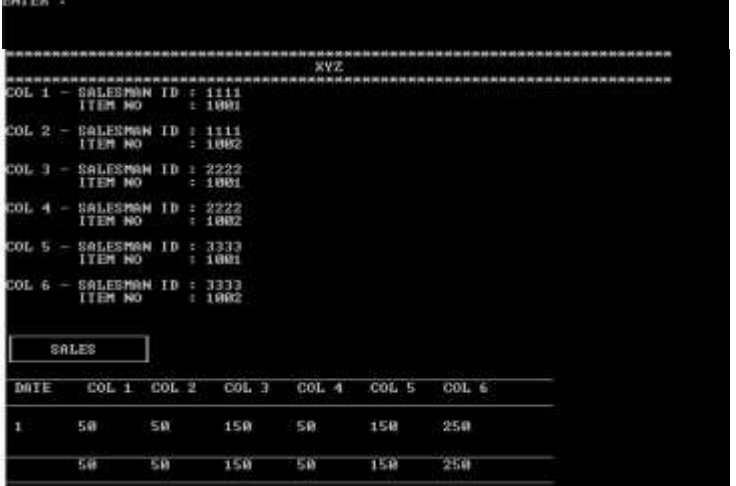
ITEM NO    SALES QTY    AVAILABLE QTY
ITEM 1001    350          999650
ITEM 1002    350          999650

BACK TO MAIN MENU : ENTER (1)
ENTER :

```

Enter '1' , can back to the main menu.

Test Case

Case	Data	Expected Output	Actual Output
01	<p>Initial Stock :</p> <p>1001 – 1000000</p> <p>1002 - 1000000</p> <p>Salesman 1 ID – 1111</p> <p>Vehicle No – 11</p> <p>Date – 1</p> <p>Item 1 No – 1001</p> <p>Item 2 No – 1002</p> <p>Loading : 1001 – 100</p> <p>1002 – 100</p> <p>Unloading: 1001 -50</p> <p>1002 – 50</p> <p>Salesman 1 ID – 2222</p> <p>Vehicle No – 22</p> <p>Date – 1</p> <p>Item 1 No – 1001</p> <p>Item 2 No – 1002</p> <p>Loading : 1001 – 200</p> <p>1002 – 100</p> <p>Unloading: 1001 -50</p> <p>1002 – 50</p> <p>Salesman 1 ID – 3333</p> <p>Vehicle No – 33</p> <p>Date – 1</p> <p>Item 1 No – 1001</p> <p>Item 2 No – 1002</p> <p>Loading : 1001 – 200</p> <p>1002 – 300</p> <p>Unloading: 1001 -50</p> <p>1002 – 50</p>	<p>Sales:1111</p> <p>1001=50</p> <p>1002=50</p> <p>Sales:2222</p> <p>1001=150</p> <p>1002=50</p> <p>Sales:3333</p> <p>1001=250</p> <p>1002=150</p> <p>Sales:1001</p> <p>350</p> <p>Sales: 1002</p> <p>350</p> <p>Availability:</p> <p>1001 ;</p> <p>=1000000 – 350</p> <p>=999,650</p> <p>1002 ;</p> <p>=1000000 – 350</p> <p>=999,650</p>	   

PERFORMANCE

SALESMAN ID :1111
ITEM NO :1001
ITEM NO :1002
Total
SALESMAN ID :2222
ITEM NO :1001
ITEM NO :1002
Total
SALESMAN ID :3333
ITEM NO :1001
ITEM NO :1002
Total
BACK TO MAIN MENU : ENTER (1)
ENTER :

***** XYZ *****

DATE: 1 to 4 SALES & AVAILABILITY

ITEM NO	SALES QTY	AVAILABLE QTY
ITEM 1001	350	999650
ITEM 1002	350	999650

BACK TO MAIN MENU : ENTER (1)
ENTER :

02 Initial Stock :
1001 – 1000000
1002 - 1000000

Salesman 1 ID – 1111
Vehicle No – 11
Date – 1
Item 1 No – 1001
Item 2 No – 1002
Loading : 1001 – 100
1002 – 100
Unloading: 1001 -50
1002 – 50

Salesman 1 ID – 2222
Vehicle No – 22
Date – 1
Item 1 No – 1001
Item 2 No – 1002
Loading : 1001 – 200
1002 – 100
Unloading: 1001 -50
1002 – 50

Sales:1111
1001=100
1002=100

Sales:2222
1001=300
1002=100

Sales:3333
1001=500
1002=300

Sales:1001
700

Sales: 1002
700

Availability:
1001 ;
=1000000 – 700
=999,300
1002 ;

***** XYZ *****

LOADING DETAILS

DATE	S.ID	V.NO	I.NO	QUANTITY
01	0	0	0	0
01	1111	11	1001	100
01	1111	11	1002	100
01	2222	22	1001	200
01	2222	22	1002	100
01	3333	33	1001	300
01	3333	33	1002	300
02	1111	11	1001	100
02	1111	11	1002	100
02	2222	22	1001	200
02	2222	22	1002	100
02	3333	33	1001	300
02	3333	33	1002	300

BACK TO MAIN MENU : ENTER (1)
ENTER :

***** XYZ *****

UNLOADING DETAILS

DATE	S.ID	V.NO	I.NO	UN.QTY
01	0	0	0	0
01	1111	11	1001	50
01	1111	11	1002	50
01	2222	22	1001	50
01	2222	22	1002	50
01	3333	33	1001	50
01	3333	33	1002	50
02	1111	11	1001	50
02	1111	11	1002	50
02	2222	22	1001	50
02	2222	22	1002	50
02	3333	33	1001	50
02	3333	33	1002	50

BACK TO MAIN MENU : ENTER (1)
ENTER :

Salesman 1 ID – 3333 =1000000 – 700
Vehicle No – 33 =999,300
Date – 1
Item 1 No – 1001
Item 2 No – 1002
Loading : 1001 – 200
 1002 – 300
Unloading: 1001 -50
 1002 – 50

=====

SYZ

=====

COL 1 - SALESMAN ID : 1111
 ITEM NO : 1001

COL 2 - SALESMAN ID : 1111
 ITEM NO : 1002

COL 3 - SALESMAN ID : 2222
 ITEM NO : 1001

COL 4 - SALESMAN ID : 2222
 ITEM NO : 1002

COL 5 - SALESMAN ID : 3333
 ITEM NO : 1001

COL 6 - SALESMAN ID : 3333
 ITEM NO : 1002

=====

SALES

DATE	COL 1	COL 2	COL 3	COL 4	COL 5	COL 6
1	50	50	150	50	150	250
2	50	50	150	50	150	250
	100	100	300	100	300	500

=====

=====

PERFORMANCE

=====

SALESMAN ID :1111
ITEM NO :1001
█
ITEM NO :1002
█
Total
█

SALESMAN ID :2222
ITEM NO :1001
█
ITEM NO :1002
█
Total
█

SALESMAN ID :3333
ITEM NO :1001
█
ITEM NO :1002
█
Total
█

BACK TO MAIN MENU : ENTER (1)
ENTER :

=====

SYZ

=====

DATE: 1 to 2 SALES & AVAILABILITY

ITEM NO	SALES QTY	AVAILABLE QTY
ITEM 1001	700	999300
ITEM 1002	700	999300

BACK TO MAIN MENU : ENTER (1)
ENTER :

=====

03 Salesman 1 ID – 1111 **Sales:1111**
Vehicle No – 11 1001=150
Date – 1 1002=150
Item 1 No – 1001
Item 2 No – 1002 **Sales:2222**
Loading : 1001 – 100 1001=450
 1002 – 100 1002=150
Unloading: 1001 -50
 1002 – 50 **Sales:3333**
 1001=750
Salesman 1 ID – 2222 1002=450
Vehicle No – 22
Date – 1 **Sales:1001**
Item 1 No – 1001 1050
Item 2 No – 1002
Loading : 1001 – 200 **Sales: 1002**
 1002 – 100 1050
Unloading: 1001 -50
 1002 – 50 **Availability:**
Salesman 1 ID – 3333 1001 ;
Vehicle No – 33 =1000000 – 1050
Date – 1 =998,950
Item 1 No – 1001 1002 ;
Item 2 No – 1002 =1000000 – 1050
Loading : 1001 – 200 =998,950
 1002 – 300
Unloading: 1001 -50
 1002 – 50

XYZ

LOADING DETAILS

DATE	S.ID	U.NO	I.NO	QUANTITY
0	0	0	0	0
1	1111	11	1001	100
1	1111	11	1002	100
1	2222	22	1001	200
1	2222	22	1002	100
1	3333	33	1001	200
1	3333	33	1002	200
2	1111	11	1001	100
2	1111	11	1002	100
2	2222	22	1001	200
2	2222	22	1002	100
2	3333	33	1001	200
2	3333	33	1002	200
3	1111	11	1001	100
3	1111	11	1002	100
3	2222	22	1001	200
3	2222	22	1002	100
3	3333	33	1001	200
3	3333	33	1002	200

BACK TO MAIN MENU : ENTER (1)
ENTER :

XYZ

UNLOADING DETAILS

DATE	S.ID	U.NO	I.NO	UN.QTY
0	0	0	0	0
1	1111	11	1001	50
1	1111	11	1002	50
1	2222	22	1001	50
1	2222	22	1002	50
1	3333	33	1001	50
1	3333	33	1002	50
2	1111	11	1001	50
2	1111	11	1002	50
2	2222	22	1001	50
2	2222	22	1002	50
2	3333	33	1001	50
2	3333	33	1002	50
3	1111	11	1001	50
3	1111	11	1002	50
3	2222	22	1001	50
3	2222	22	1002	50
3	3333	33	1001	50
3	3333	33	1002	50

BACK TO MAIN MENU : ENTER (1)
ENTER :

XYZ

COL 1 - SALESMAN ID : 1111
ITEM NO : 1001

COL 2 - SALESMAN ID : 1111
ITEM NO : 1002

COL 3 - SALESMAN ID : 2222
ITEM NO : 1001

COL 4 - SALESMAN ID : 2222
ITEM NO : 1002

COL 5 - SALESMAN ID : 3333
ITEM NO : 1001

COL 6 - SALESMAN ID : 3333
ITEM NO : 1002

SALES

DATE	COL 1	COL 2	COL 3	COL 4	COL 5	COL 6
1	50	50	150	50	150	250
2	50	50	150	50	150	250
3	50	50	150	50	150	250
	150	150	450	150	450	750

PERFORMANCE

SALESMAN ID :1111
ITEM NO :1001
ITEM NO :1002
Total

SALESMAN ID :2222
ITEM NO :1001
ITEM NO :1002
Total

SALESMAN ID :3333
ITEM NO :1001
ITEM NO :1002
Total

BACK TO MAIN MENU : ENTER 111
ENTER :_

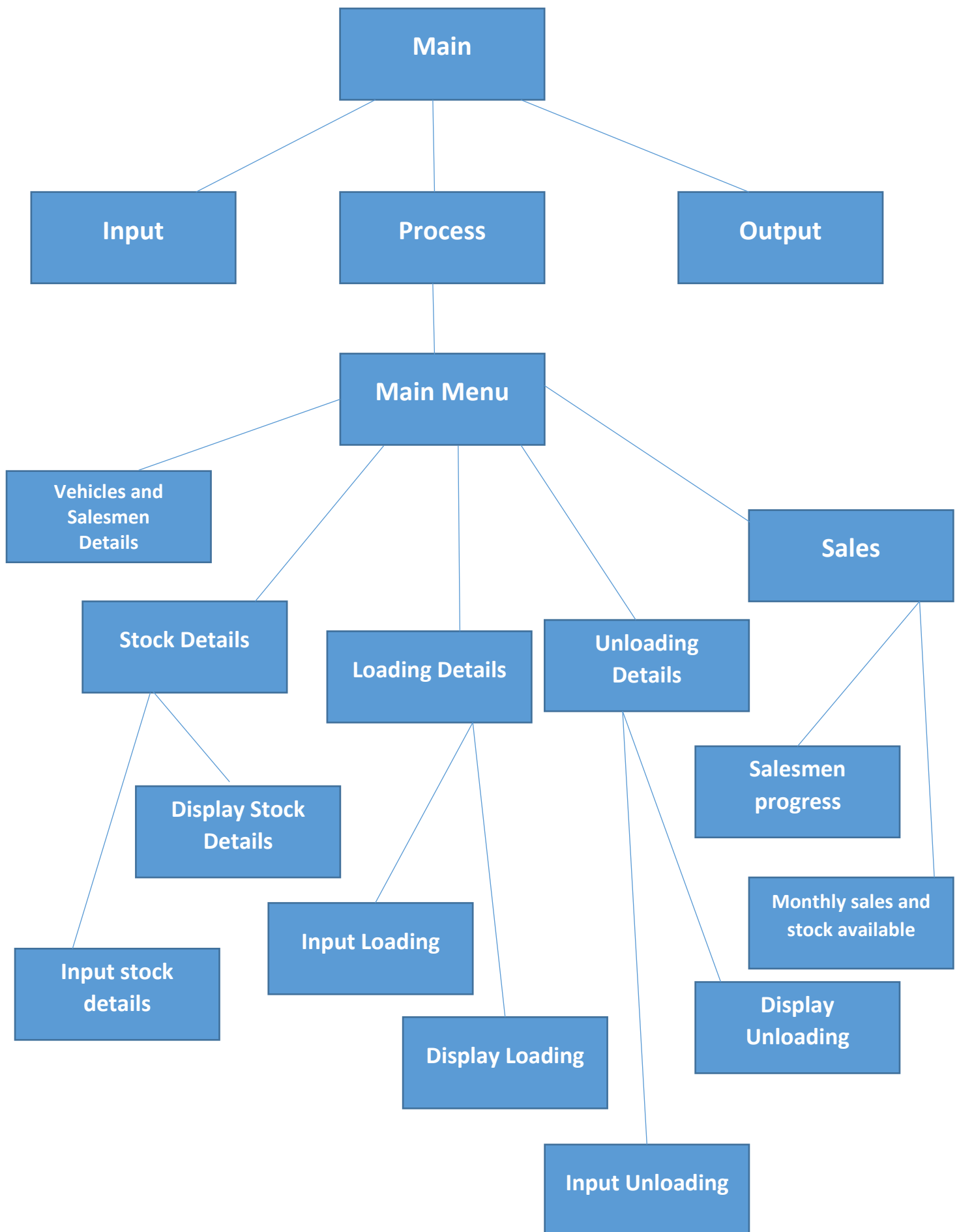
XYZ

DATE: 1 to 3 SALES & AVAILABILITY

ITEM NO	SALES QTY	AVAILABLE QTY
ITEM 1001	1050	998950
ITEM 1002	1050	998950

BACK TO MAIN MENU : ENTER 111
ENTER :

Structure Chart



Limitation

- ❖ There are only three salesmen, three vehicles and two items in this system.

Bugs

- ❖ Assume that the same salesman is transporting the items in the same vehicle. Loading items can only be added if the correct salesman ID number, correct vehicle number and the correct item number are added. Input wrong details print error message.
- ❖ The unloading amount should be less than loading amount. If these conditions are not true, can't add unloading. Print error message.
- ❖ System is worked only 31 days.
- ❖ Enter "**Date**" from 1 to 31.
- ❖ The graphs are printed only if one salesman has sold more than 100 items per each item.
- ❖ There is no option to delete or erase the loading and unloading amount from the system.
- ❖ If user use letters or other characters in the space given to enter numbers, then the system will not work properly.