Company Distribution System

FINAL ASSIGNMENT 2020

Author: Alok Prasanna Jayathilaka
AS95261 / AS2019102
(MAT / CS / PHY)

Introduction

XYZ Distribution Management System is mainly developed to perform the tasks given below.

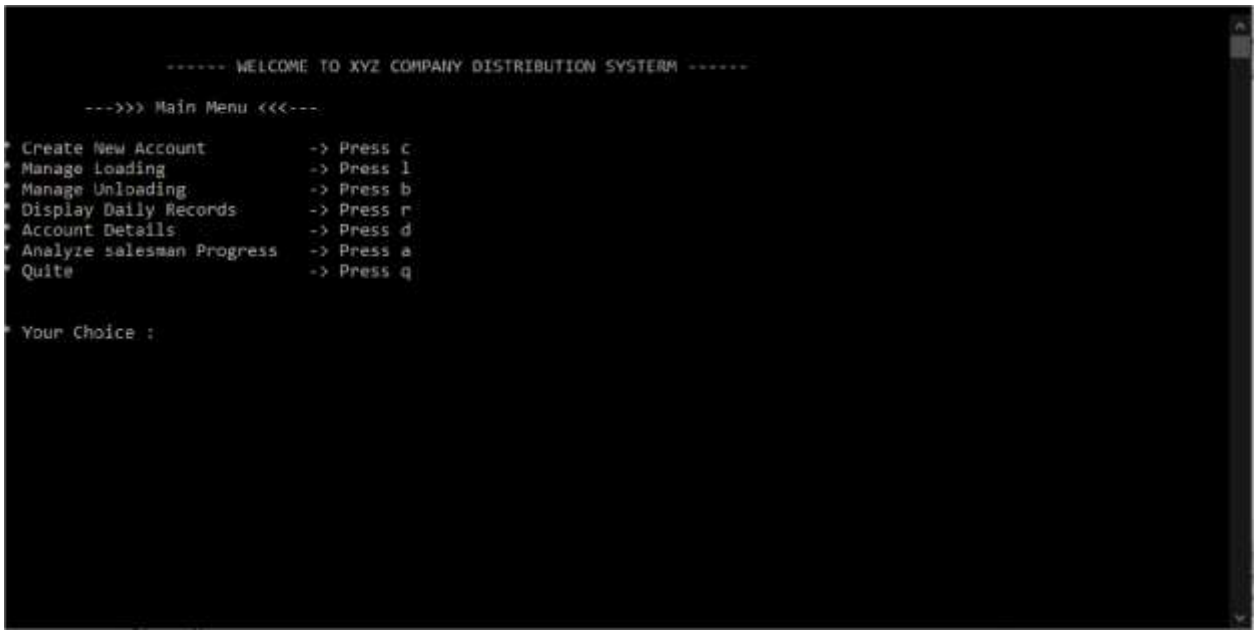
- Create New Account
- Manage Loading
- Mange Unloading
- Display Daily Records
- Display Account Details
- Analytic Graph Of salesman’s Progress

Functionality of the system

This program is based on a company called XYZ Distributors Delivery management system. Drive function include with facilitate business functions such as

- Creating New Accounts
- Loading Management
- Unloading Management And Displaying Daily Records
- Providing Account Details
- Providing Analytics Data

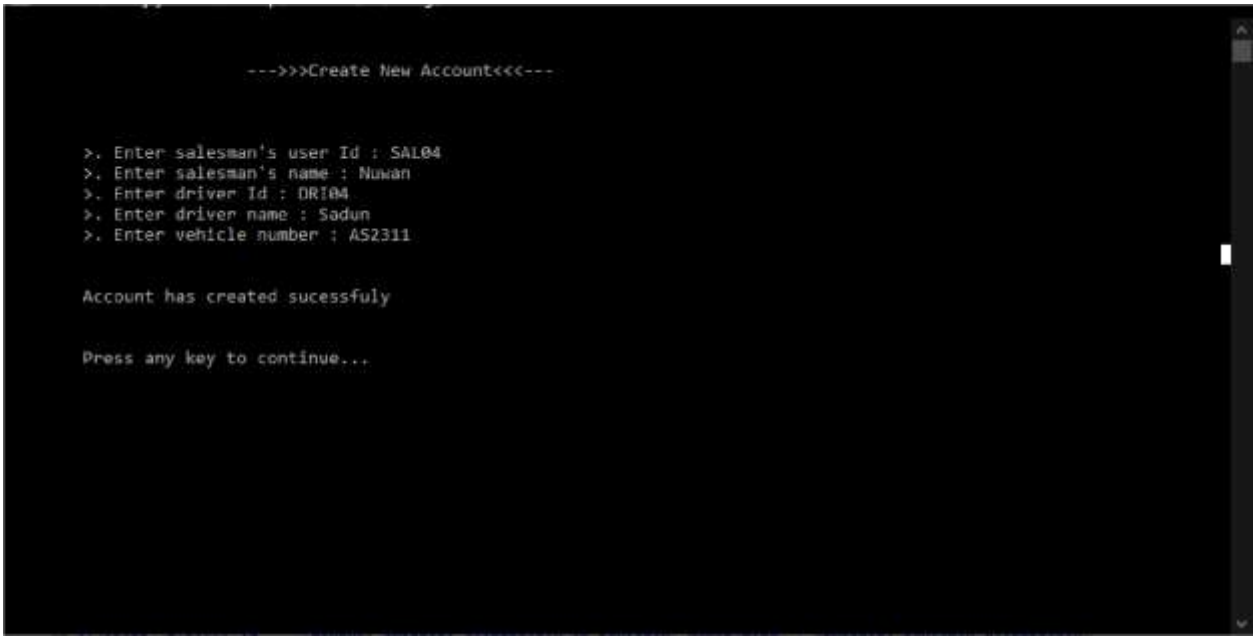
- Main Menu



Main menu is used to access the main functions of the XYZ company distribution system. Through this section you can access tasks given below.

- Create New Account
- Manage Loading
- Manage Unloading
- Display Daily Record
- Account Details
- Analyze Salesman Progress

- Create New Account

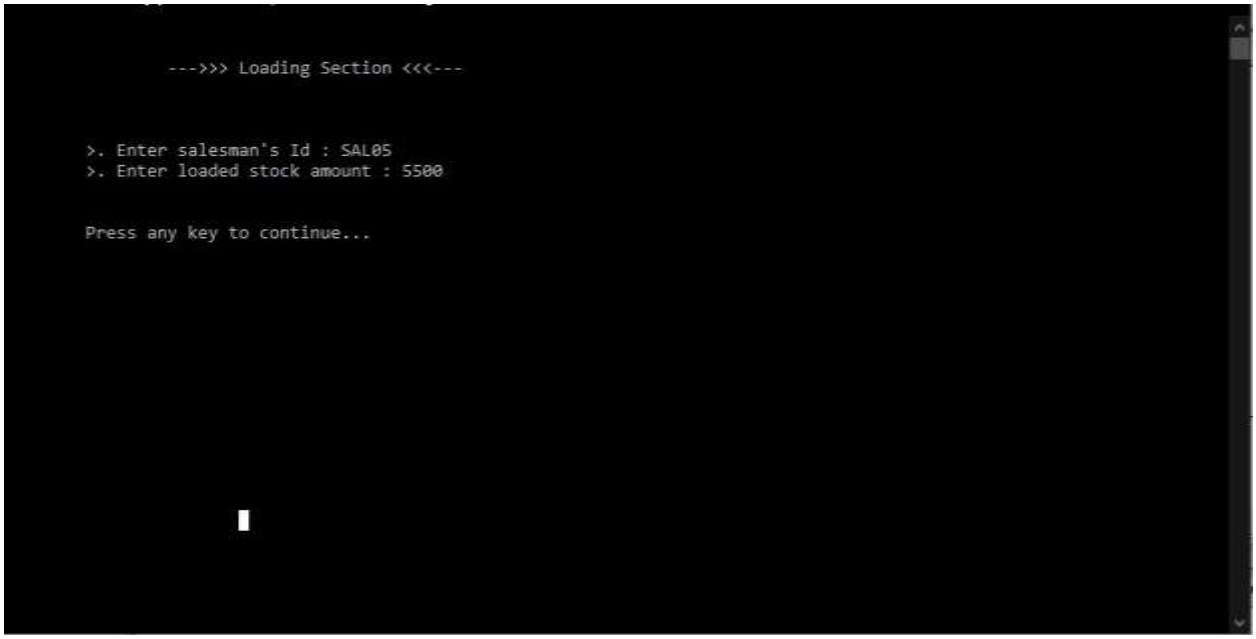


In this phase you need to provide,

- Salesman User Id
- Salesman Name
- Driver Id
- Driver Name
- Vehicle Number

Respectively to create a new account. Then you can see a massage as ”Account has created successfully” .After that you can press any key to return back to “main menu”.

- Manage Loading



In this phase you need to provide

- Salesman Id
- Loading stork amount

Respectively to record to loading details. After that you can press any key to return back to “main menu”.

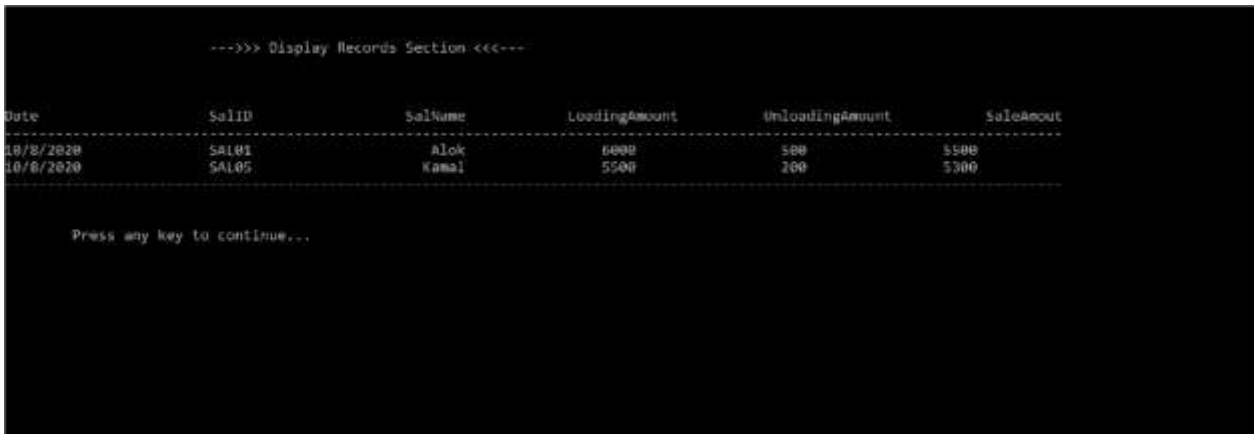
- Manage Unloading

In this phase you need to provide

- Salesman Id
- Balance stork amount

Respectively to record to unloading details. After that you can press any key to return back to “main menu”.

- Display Daily Records

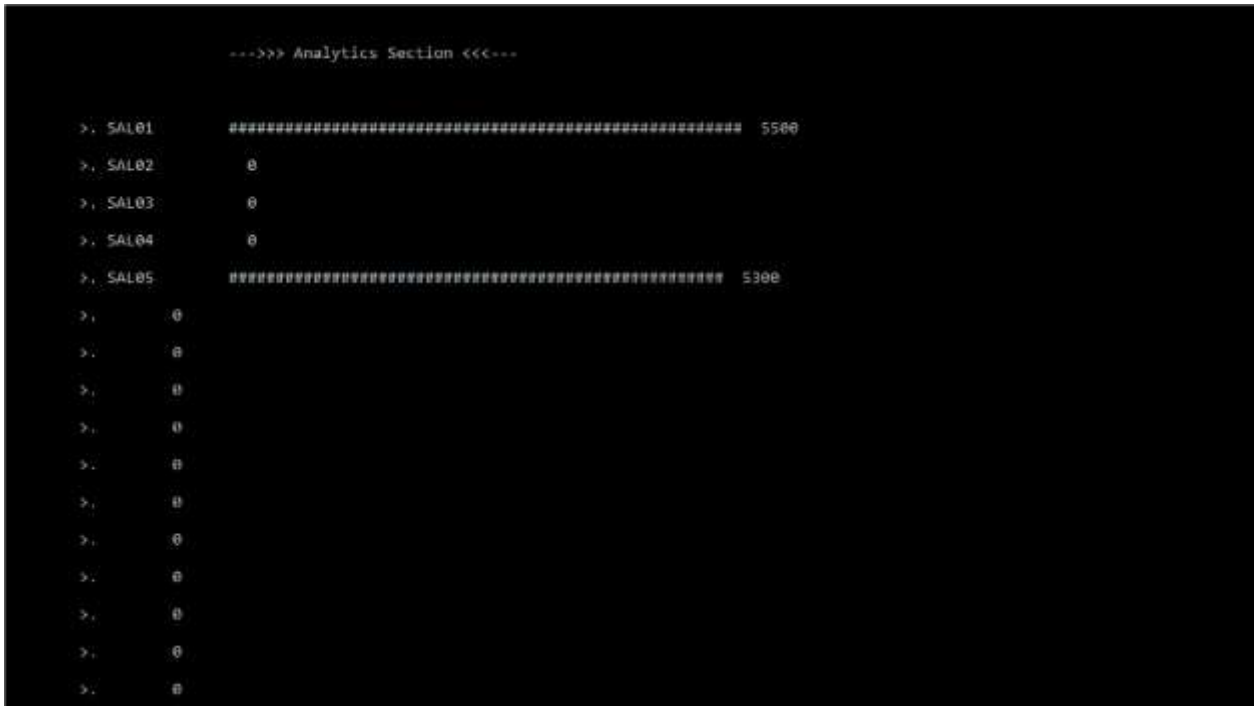


After entering to the Display Daily Records you can access to a tabular record section about all daily records.

- Account Details

If you need to access salesman's account details and the appropriate driver details, you need to access account details section from the main menu entering "r". As soon as you access the section it provide a tabular form of structure with above mentioned details.

- Analyze Salesman Progress



Entering to this section you can see a visualization about salesman progress. This system can only hold up to maximum count of 20 salesman. And if the system has no more than 20 salesman, the remaining progress will show as “0”.

Other Special Function in the Source Code

- void memoryLoad(struct salesman salesmanArr[])

```
void memoryLoad(struct salesman salesmanArr[])
{
    FILE *loadFile;
    loadFile = fopen("data.txt", "a+");
    int n = 0, ch;
    while(EOF != (ch = getc(loadFile)))
    {
        if(ch == '\n')
            n++;
    }
    rewind(loadFile);
    for(i=0; i<n; i++)
    {
        ////////////////////////////////////////////////
        fscanf(loadFile, "%s %s %s %s %s", salesmanArr[i].
        salesmanArr[i].check = 1;
    }printf("\n");
    system("cls");
    return;
}
```

This functions load records data from secondary memory (Hard) to the primary memory (RAM) in every start up.

- Structures that are available in source
    - salesman
    - driver
    - stock

Stock and driver structures are implemented in salesman structure as nested structures to reduce the complexity.

- File Handling and Test Cases

  - data.txt file

```
SAL01          Alok      DRI01      Prasanna     ABC1234
SAL02    Jayathilaka     DRI02         Saman     ABZ1245
SAL03         Pasan      DRI03         Kalum     ADF3456
SAL04         Nuwan      DRI04         Sadun      AS2311
SAL05         Kamal      DRI05       Rajitha      AP1289
```

  - daily_record_log.txt

```
10/8/2020          SAL01                Alok          6000
10/8/2020          SAL03               Pasan          6000
10/8/2020          SAL02          Jayathilaka         4000
10/8/2020          SAL05               Kamal          5500
```

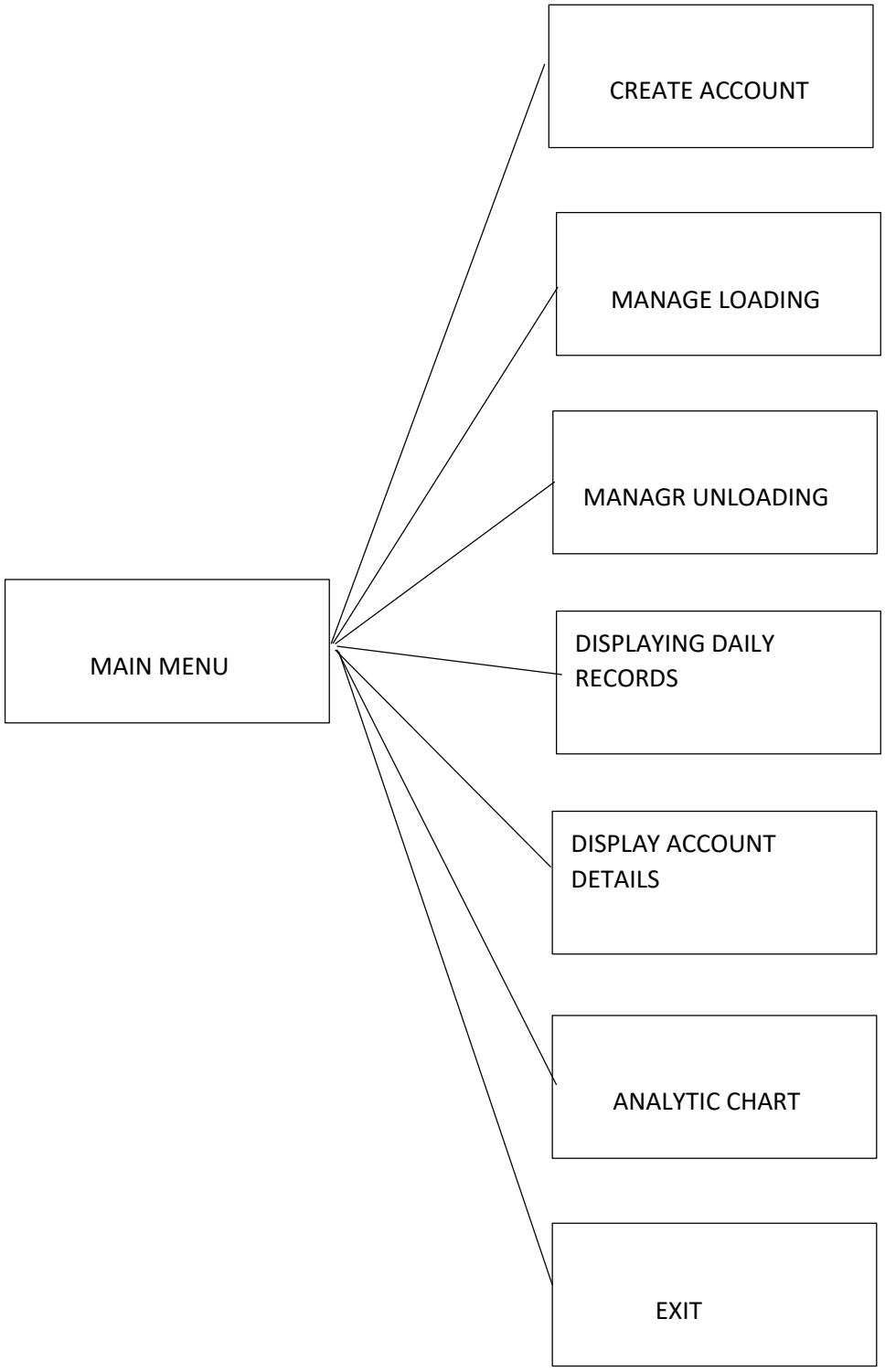
  - final_daily_rec.txt

```
10/8/2020          SAL01          Alok          6000          500          5500
10/8/2020          SAL05          Kamal         5500          200          5300
```

  - analaticsData.txt

```
SAL01 5500
SAL05 5300
```

- Design structure



END!