

**Dr. D. Y. Patil VidyaPratishthan Society’s**

**PAD.DR.D.Y.PATIL ARTS, COMMERCE&SCIENCE COLLEGE**

**PIMPRI, PUNE– 18.**

**A**

**PROJECT REPORT**

**ON**

**“NEWSPAPER AGENCY”**

Developed by

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M.C.A (Science)

In

Department of Computer Science

Under

**“University of Pune”**

**2015-16**



**Dr. D. Y. PatilVidyaPratishthan Society’s**

**Pad.Dr.D.Y.Patil Arts, Commerce & Science College**

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**Certificate**

This is to certify that Mr. Akshay Talekar & Maitreya Vaidya of the class S.Y.M.C.A.(Science)Seat no.\_\_\_\_\_\_\_ has satisfactorily completed the project entitled Newspaper Agency System in Computer Science during the academic year 2015-16 as per requirements of the University of Pune.

Project Guide HOD &Vice Principal Principal

Examiner 1:\_\_\_\_\_\_\_\_\_ Examiner 2:\_\_\_\_\_\_\_\_\_\_

**Acknowledgement**

I would like to take this opportunity to express my profound gratitude to all those who have provided timely guidance and helping hand in making my project a success.

I extend my sincere thanks to respected **Mrs.Depashree Mehendale (project guide)**  and **Mr. Ranjit patil(H.O.D)& Vice Principal** who encouraged me for this project.

I would like to extend my thanks to my project guide whose guidance, simulating suggestions and encouragement helped me all the time of my project discussions right from the inception of the project till its completion.

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-Akshay Talekar

-Maitreya Vaidya

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**Introduction**

The modern industrial world is very much advanced in technology and competition in the world is intense. The user of a computer is provided with the HARDWARE and SOFTWARE, the two source of the computer. Much of the software will be programs which facilities the fast automatic management of the computer system resource.

“The Newspaper agency System” is one can go into almost required solution regarding the newspaper agency. This software package provides guidance for all the newspaper shop purpose, as a perfect guide, the current demand for such software became needful. This project will provide for computerization of a small agency whose main goal is to keep the detail information about the customer, supplier, newspaper and billing process and wants to change from paper based work to computerized system.

* Problem definition
* The current system is totally manual.
* The newspaper shop has to maintain daily details manually.
* They have to maintain huge database of all the customers, stock details and their employees.
* The newspaper has to maintain a lot of paperwork for this various tasks.
* For the job of managing bills and receipts and other documentation, shop currently uses separate employee/department.
* **Purpose of System**
* **“The Newspaper agency System”** is one can go into almost required solution regarding the Newspaper shop.
* Software we can easily track all the customer detail, supplier detail, newspaper detail, stock detail, bill detail and also we can able generate report.
* The main goal of the software is build a good management tool.
* The newspaper agency system will make storing of the customer records, stock records, sales detail, employee information, expense detail and order details in the database it will generate bills and print the bills.
* **The scope of the project**
* This software is used to maintain day to day activities for the news paper agencies, like maintain customer details, requirement details, which paper needed for particular day, product master with day to day rate, daily requirement and stock entry, line and supplier details, transaction, creation of bills for single customer to all customer, payment collection, reports.
* It is totally self-contained and works efficiently.
* It provides simple database rather than complex ones for high requirements and it provides good and easy graphical user interface to both new as well as experienced user of the computer.
* **Need for computerization**

The modern industrial world is very much advanced in technology and competition in the world is intense. If we want healthy growth of business, one must keep business techniques up-to-date. Today computer is the mandatory part of every business in the world. This is why computer is used for major task like storing records, complex calculations, worldwide communication etc. Because it is not possible to complete all these tasks by human itself in efficient way.

The Newspaper agency business is closely related to management of things like customer, stock, supplier, newspaper, and so on. So, if we select manpower to perform management of all these things, following problems may arise:

1. Paper based transaction has become old nowadays because it is time consuming and less secured/reliable.
2. The process of storing all these records also raises the issue of security and space.

Computerization solves all these problems and provides reliability and correctness in the process of management.

Performing operation with the help of computer will save the manual work of agent and so the billing work becomes easy no need for manual calculation. Security of data is maintained. We can retrieve or manage records instantly because of user friendly environment of computer.

* + - * **Objective of project**
* To provide security of the software with the help of password facility.
* To provide User Friendly interface that will make various operations easier to perform.
* To provide automatic bill generation.
* To provide automatic stock inward outward.
* To provide automatic stock update after the selling process.
* To provide data validation.
* To provide facility of storing record of Employees, record of sold items, record of pending order, record of completed order, record of expense.
* To provide facility of instant report generation.
* **Advantages of proposed system**
* Password protection provides database security.
* Provides automatic bill generation and can print the bill
* Provides updation of stock inward/outward.
* Provides instant report generation.
* **Feasibility study**

The feasibility study is useful to evaluate the cost and benefits of the system requested. There are three aspects in the feasibility study:

1. Technical Feasibility:

The Technical Feasibility always focuses on the existing computer hardware, software and the other components. It also includes the need of above and possibility of installing such facility.

2. Economical Feasibility:

It considered the cost/benefit analysis of the proposed project. It is helpful to find the system development cost and checks whether it is justifiable? With the help of this we also find investigation cost, software & hardware cost, training cost, salaries and maintenance cost etc.

3. Operational Feasibility:

It considered the acceptability of the system. It checks whether system be used if it is developed and implemented? Are the users of the system able to handle the system? Whether the proposed system causes any trouble? etc.

* **Fact finding technique**

To study the system you need to collect facts. Facts expressed in quantitative form can be termed as data. Success of any requirement investigation depends upon availability of accurate and reliable data. These depend on the appropriateness of the method chosen for the data collection. The specific methods used for collecting data are called fact finding techniques.

Interview, Questionnaire, Record review, Observations are the different fact finding techniques used to be analyst. An analyst prefers the joint use of more than one of these techniques for correct and comprehensive investigation.

1. INTERVIEW :

Interview technique is used to collect information from the individuals or from groups. Analyst should select respondents who related with the system under study. In this method the interviewer sits face-to-face with the respondent and records his/her responses.

The information collected in this system is likely to be more accurate and reliable because the interviewer has cleared up doubts regarding this system. This method also helps to find areas of misunderstanding, unrealistic expectations and future problems of the proposed systems.

2he point of view of the respondent and formulated in such a manner as to provide the data in so far as possible in the desired from.

A questionnaire may be mailed to individuals who are requested to write the answers against each question and to return the completed Performa by post. It is essential that the mailed questionnaire have to speak for itself. This method can be easily adopted where the field of investigation is very vast and the respondents are spread over wide the market. This is useful for understanding the current situation of the market. This way we may know there expectation of building the system for them according to their criteria, priority and expectations. Thus method helps to build the system under a detailed study of the questionnaire.

1. RECORD REVIEW:

Information related with the system may be present in the form of records. This kind of record review provides very valuable information to the analyst about system, organization and various procedures and rules.

Record review may be performed in the beginning of the study to collect initial information or at the end of study to compare actual operations.

1. OBSERVATION:

If information is not collected from the other fact-finding methods, then observation method is used. In this method analyst observes the flow of documents, way the process is carried out, steps followed the persons involved, etc. if the analyst is familiar with the systems then analyst knows what to observe and how to gather information. Inexperience person may observe unnecessary things, which delays the system study.

* Platform

Operating System:

* Windows xp,98,7,8

Hardware Requirements:

* Pentium 3 processor or higher
* Hard disk of 2GB capacity or more
* 512MB RAM
* Standard output display(640X480)
* Standard qwerty keyboard

Software Requirements:

* JDK 1.5.0 and above with JDBC connectivity
* MySQL database
  + **System design**

ER diagram:

Supplier

Agent

Newspaper

Bill

Customer

1

\*

1

1...\*

1

1

1...\*

1...\*

1

\*

1

\*

1

1

Class diagram:



Object diagram:

S:supplier

s\_id=101

s\_name=raghu

s\_address=pune

s\_phn\_no=7733224

A:agency

a\_name=nikita

a\_address=pune

a\_phn\_no=903344

N:newspaper

a\_name=nikita

a\_address=pune

a\_phn\_no=903344

C:customer

c\_id=101

c\_name=aradhya

c\_address=pune

c\_phn\_no=894844

B:bill

b\_no=32

b\_amt=50000

1

1..\*

1

\*

1

1..\*

1

\*

1

1..\*

1

1

1

\*

Use case:

System

**User/agent**

**Login**

**Validation**

<<Include>>

**Add/remove/update**

**Supplier**

**Add/remove/update newspaper data**

**Add/remove/update customer**

**Delivery reports**

**Calculate bill**

**Generate reports**

**Requirements**

**Set date**

<<Include>>

<<Include>>

Sequence diagram

: User/agent

S.system

D.database

1: login()

2 : validation()

3: confirmed password ()

4: add/update/delete/save customer, newspaper, supplier detail ()

5: save details()

6: added/updated/deleted/saved cutomer,newspaper,supplierdetail()

7: calculate bill ()

8: save bill details()

9: print bill ()

10: calculate inward/outward ()

11: generate reports ()

12: display reports ()

Component diagram

system

customer.java

suplier.java

bill.java

newspaper.java

customer\_report.java

dailystock\_report.java

Collaboration diagram

U:user/agent

S:system

2:checks the validate user

3:confirms the password

4:open the main page

D:database

6:save all details

10:save bill details

1:login

5:add/update/delete/save cutomer,supplier,newspaper details

7:calculate bill

9:print bill

10:pay bill

11:calculate inward/outward

12:generate report

Activity diagram

login

confirmed pswd

customer

details

supplier

details

newspaper

details

add/delete/

update

add/delete/

update

add/delete/

update

bill

generation

calculate bill

pay bill

daily stock

inward/outward

report generation

yes

no

# Data Dictionary

# Modules

1. Admin Module
   1. Product information
   2. Daily Stock update
   3. Daily customer master update
   4. Bill generation
   5. Reports (Daily/Monthly/Yearly)
2. Customer
   1. Customer Registration
   2. Customer Authentication
   3. Customer Requirement
   4. Billing Information
3. Supplier
   1. Supplier Information
   2. Billing Information

# Supplier Information

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Supplier ID | Int | This auto generated unique id |
| Name | String |  |
| Address | String |  |
| Phone No. | Int |  |

# Product Types

Database table only, no user interface or form.

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Product Type ID | Int | This auto generated unique id |
| Name | String |  |

# Language

Database table only, no user interface or form.

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Language ID | Int | This auto generated unique id |
| Language | String |  |

# Product Information

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Product ID | Int | This auto generated unique id |
| Product Type | Int | Foreign Key of Product Type |
| Language | Int | Foreign key of Language |
| Name | String |  |
| Supplier ID | Int | Foreign Key of Supplier |

# Product Rate

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Product ID | Int | Foreign key of Product Master |
| Effective Date | Date |  |
| Rate | Float |  |

# Customer Information

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Customer ID | Int | This auto generated unique id |
| Name | String |  |
| Address | String |  |

# Weekday Details

Database table only, no user interface or form.

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Week ID | Int | This auto generated unique id |
| Name | String |  |

# Customer Requirements

|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| ID | Int | This auto generated unique id |
| Customer ID | Int |  |
| Product ID | Int |  |
| No of Copies | Int |  |
| Start Date | Date |  |
| Close Date | Date |  |

# Daily Customer Master Update

This is for administrator, UI representation is like display all calendar dates for selected month and check or un-check respective date

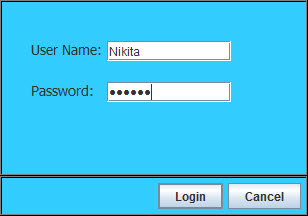
|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| Master ID | Int | This auto generated unique id |
| Customer ID | Int | Foreign key of customer |
| Product ID | Int | Foreign key of product |
| Received Date | Date |  |

# Daily Stock Information

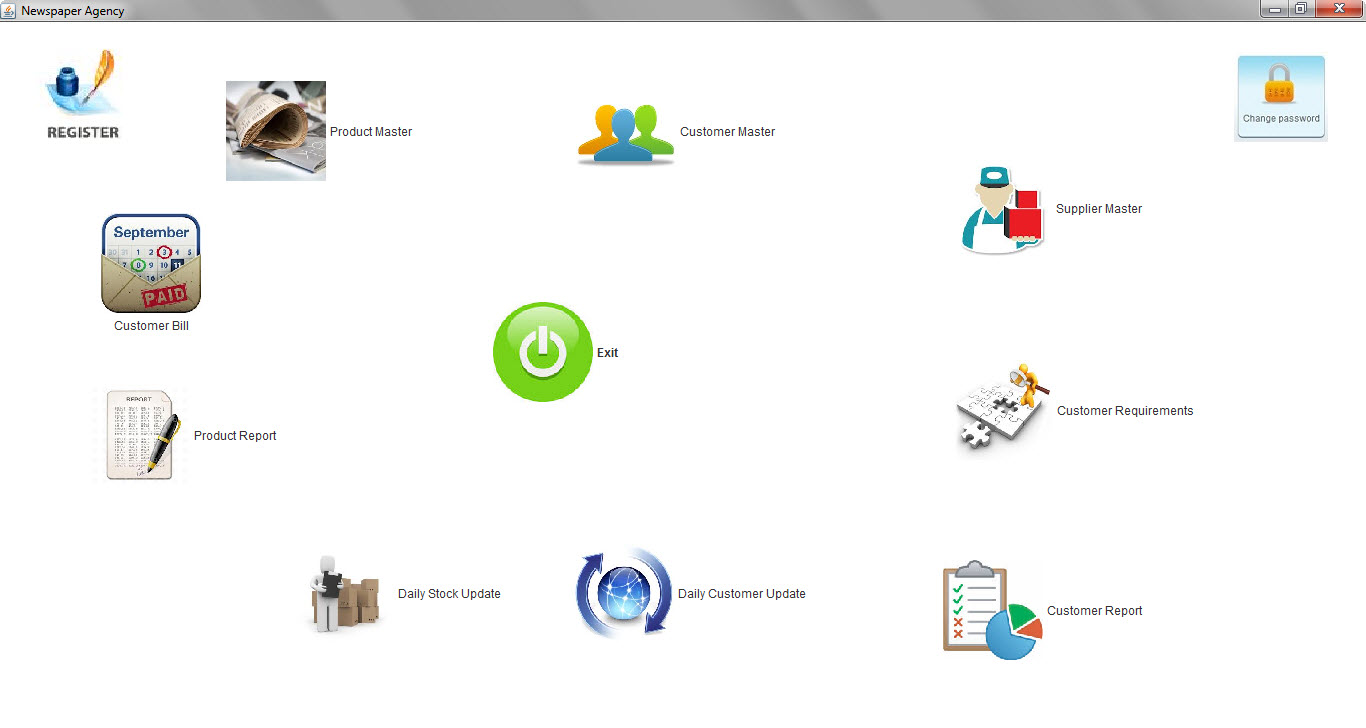
|  |  |  |
| --- | --- | --- |
| Fields | Data Type | Description |
| ID | Int | This auto generated unique id |
| Supplier ID | Int | Foreign key of supplier |
| Product ID | Int | Foreign key of product |
| Date | Date |  |
| Quantity | Int |  |
| Return | Int |  |

Screen Shots

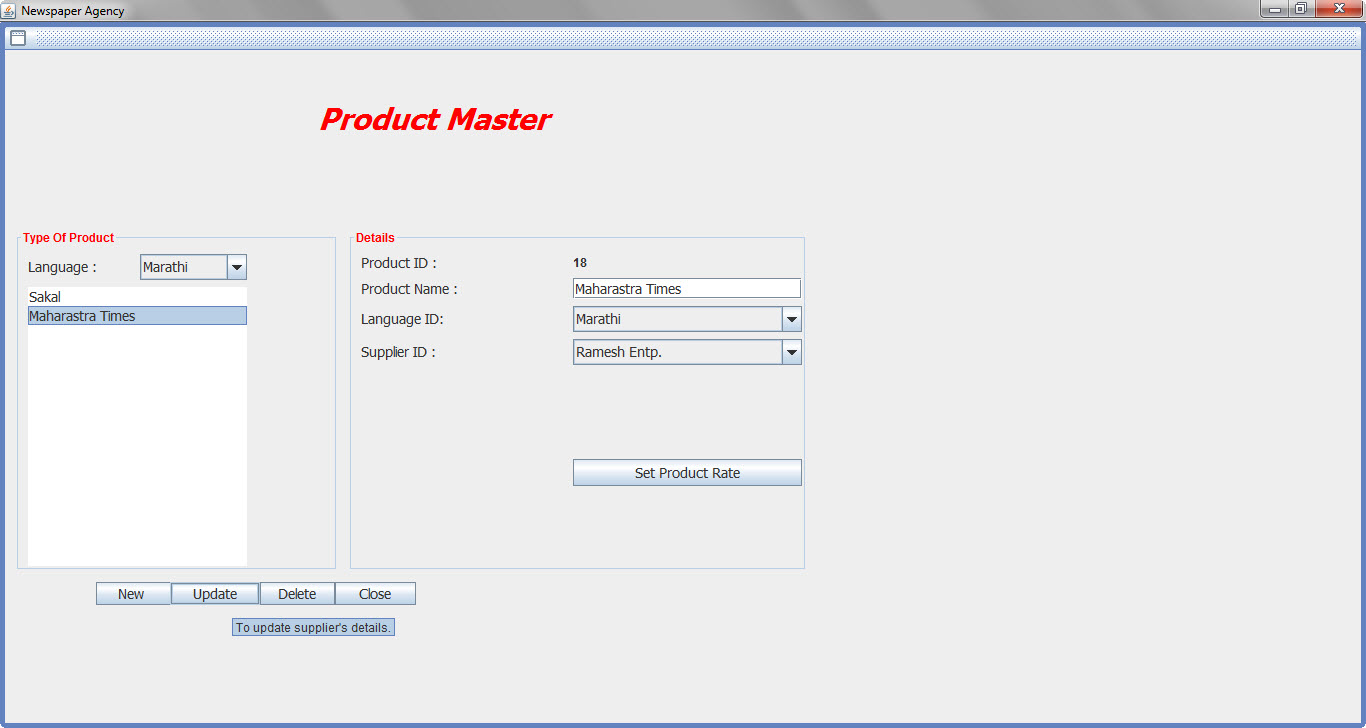
Login:



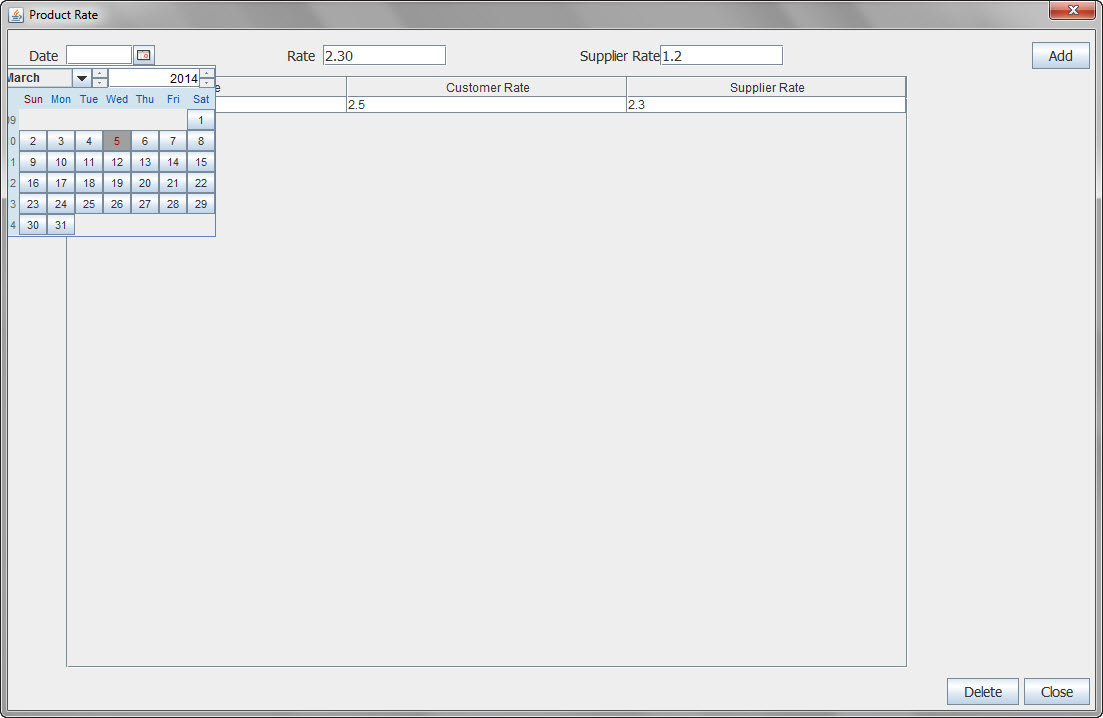
Home Screen :



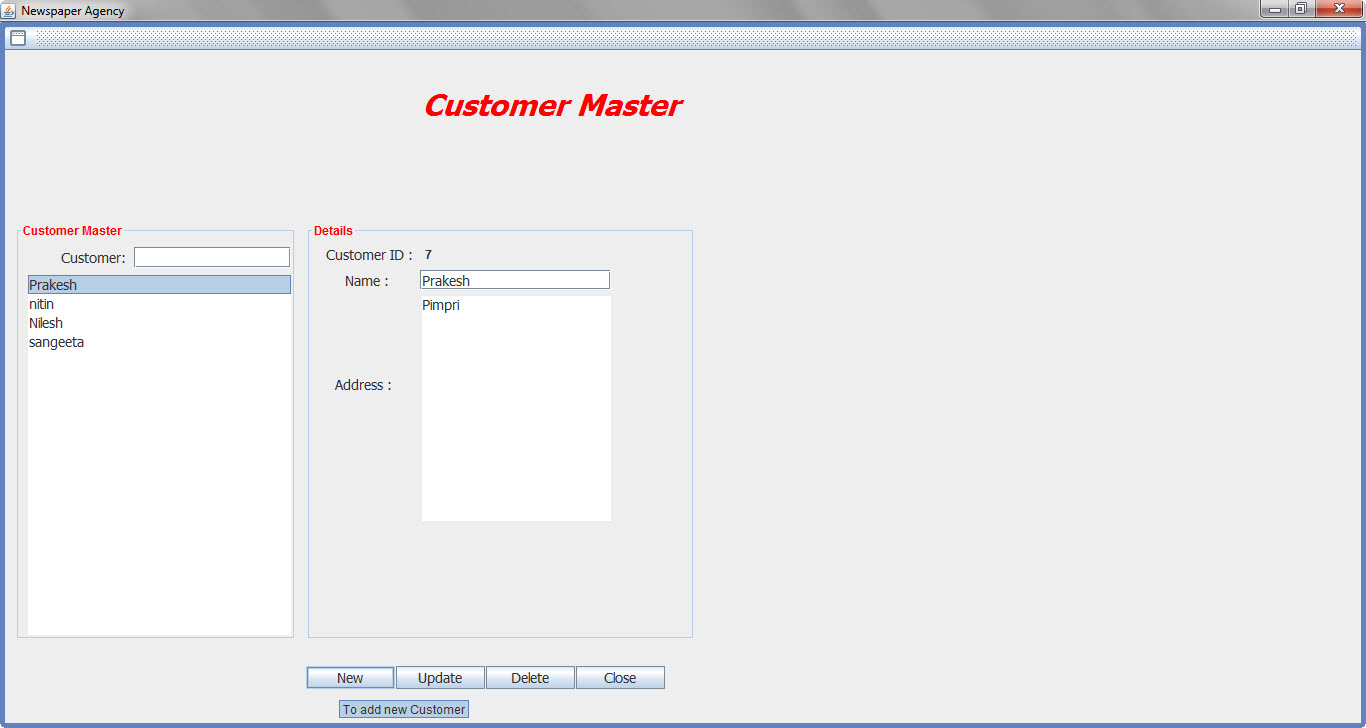
Product Master:



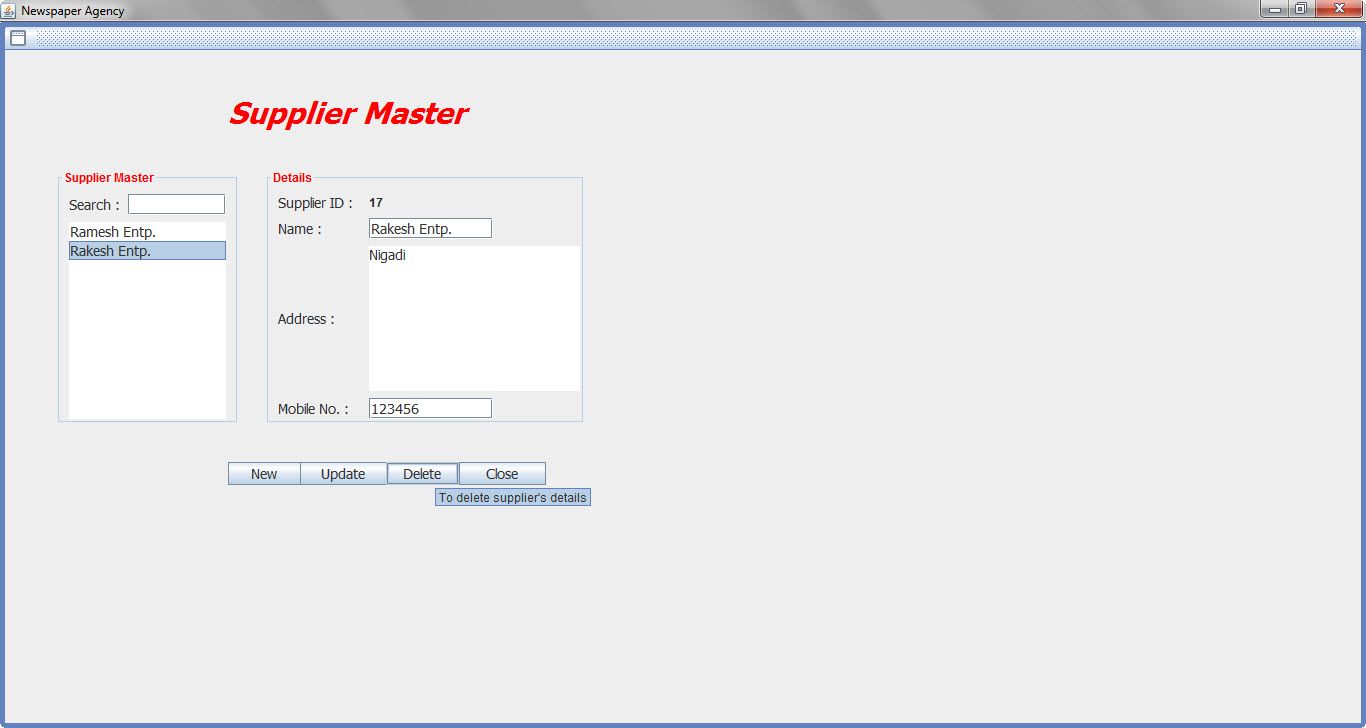
Set Product Rate:



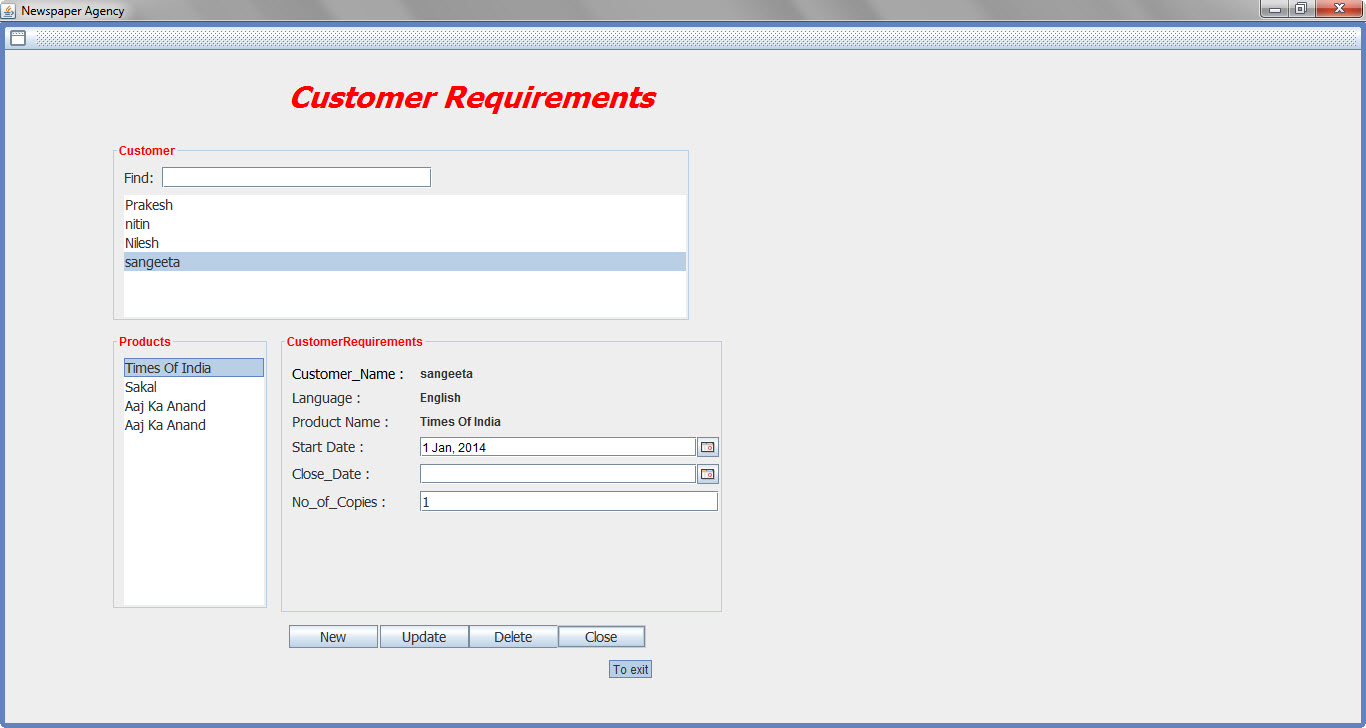
Customer Master :



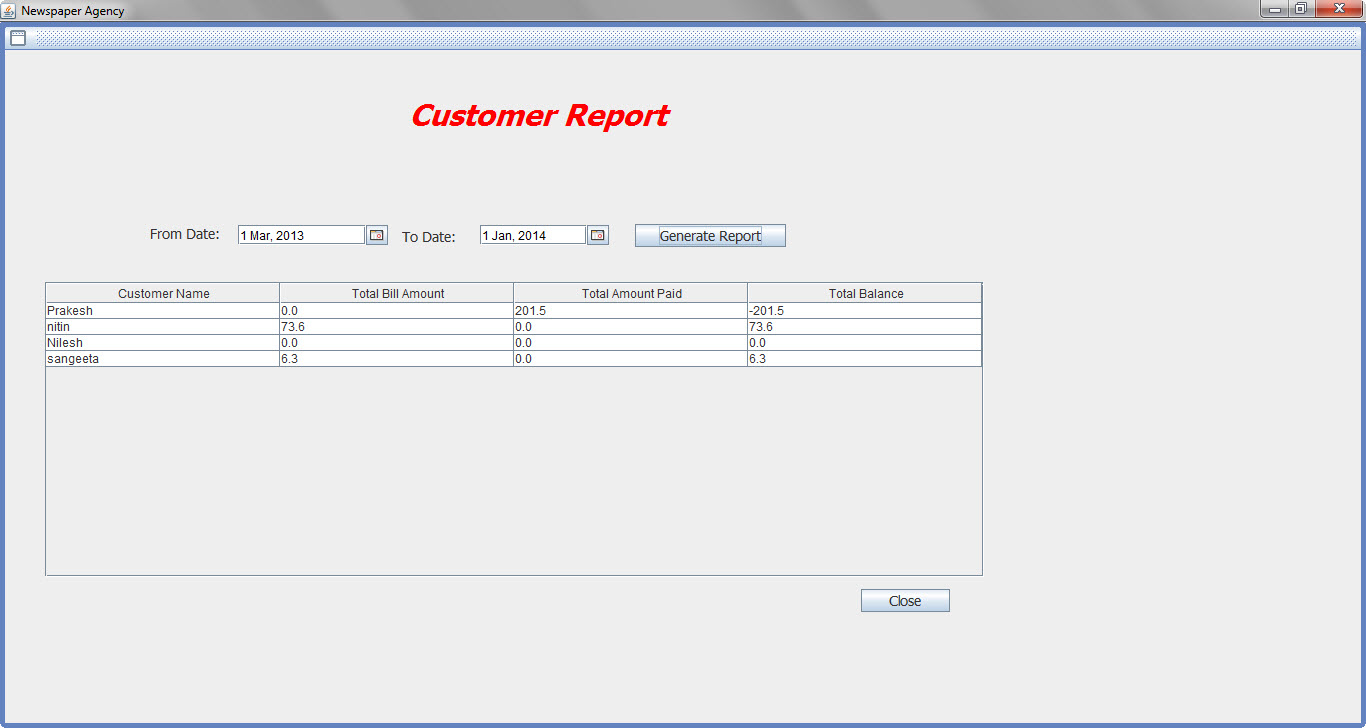
Supplier Master :



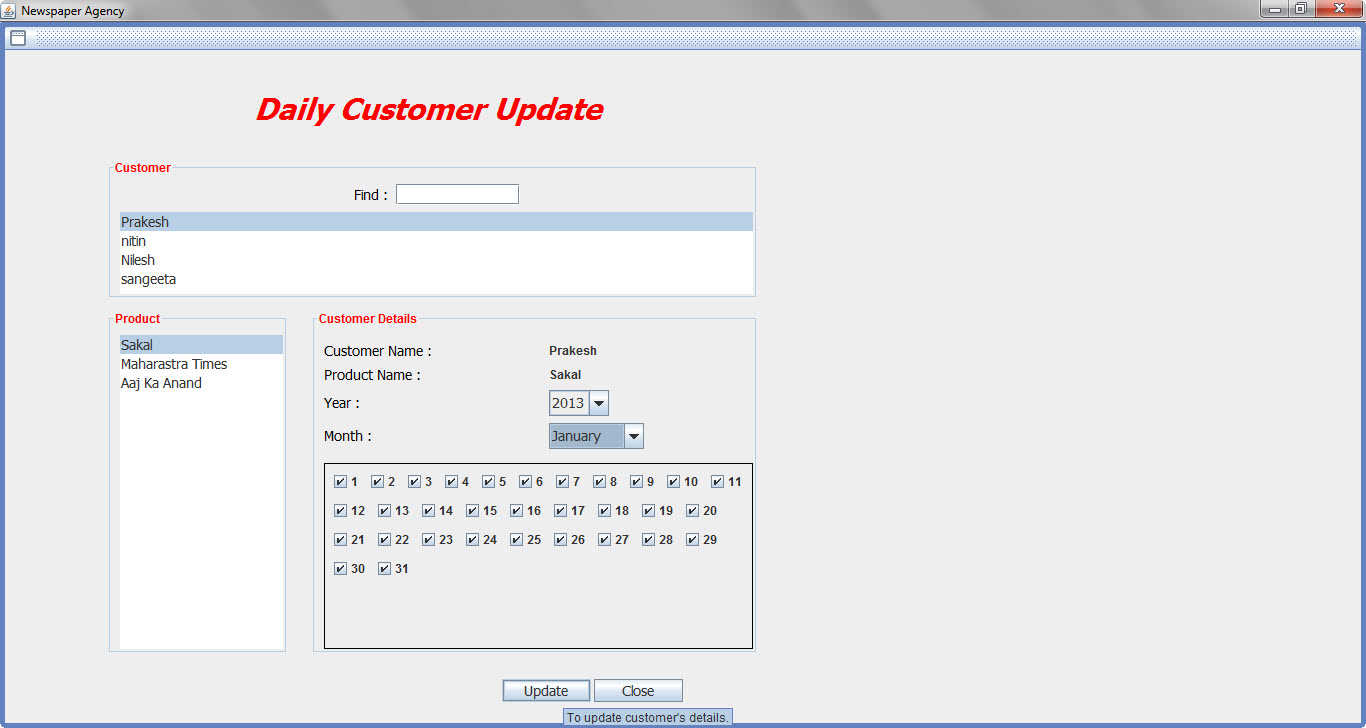
Customer Requirements :



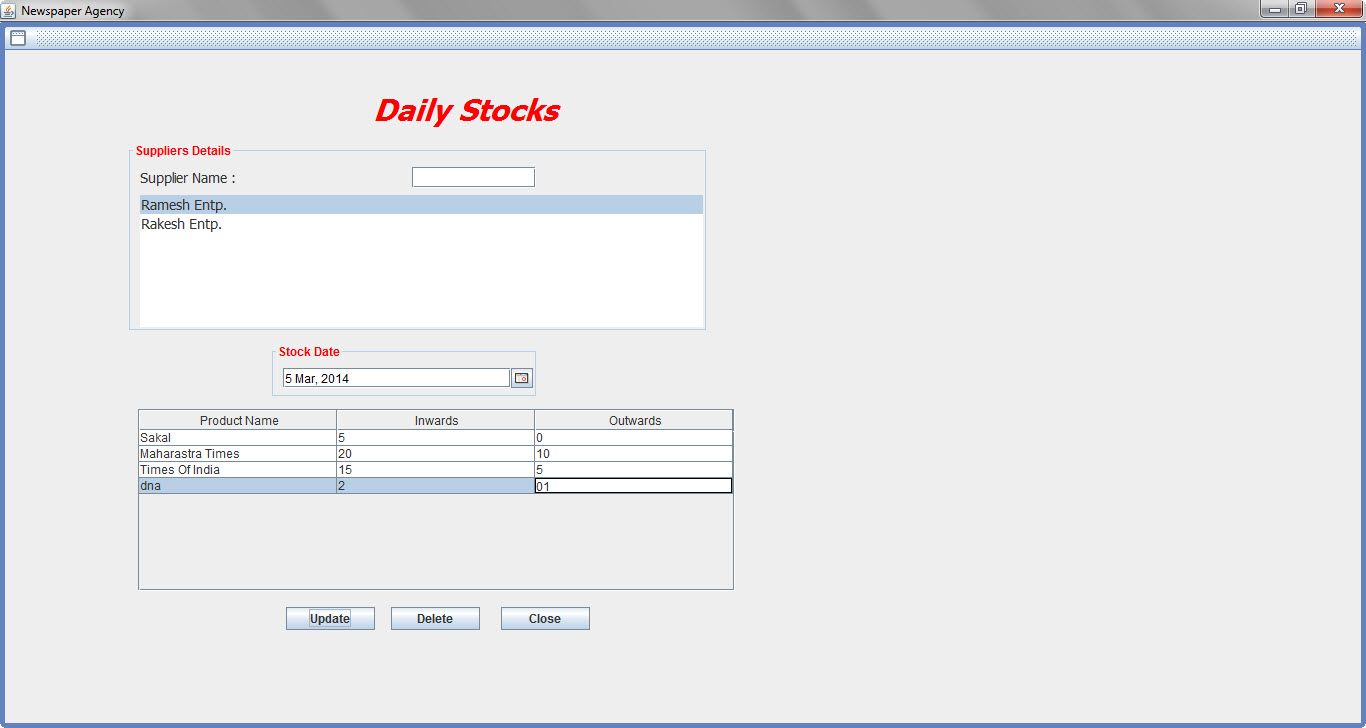
Customer Report:



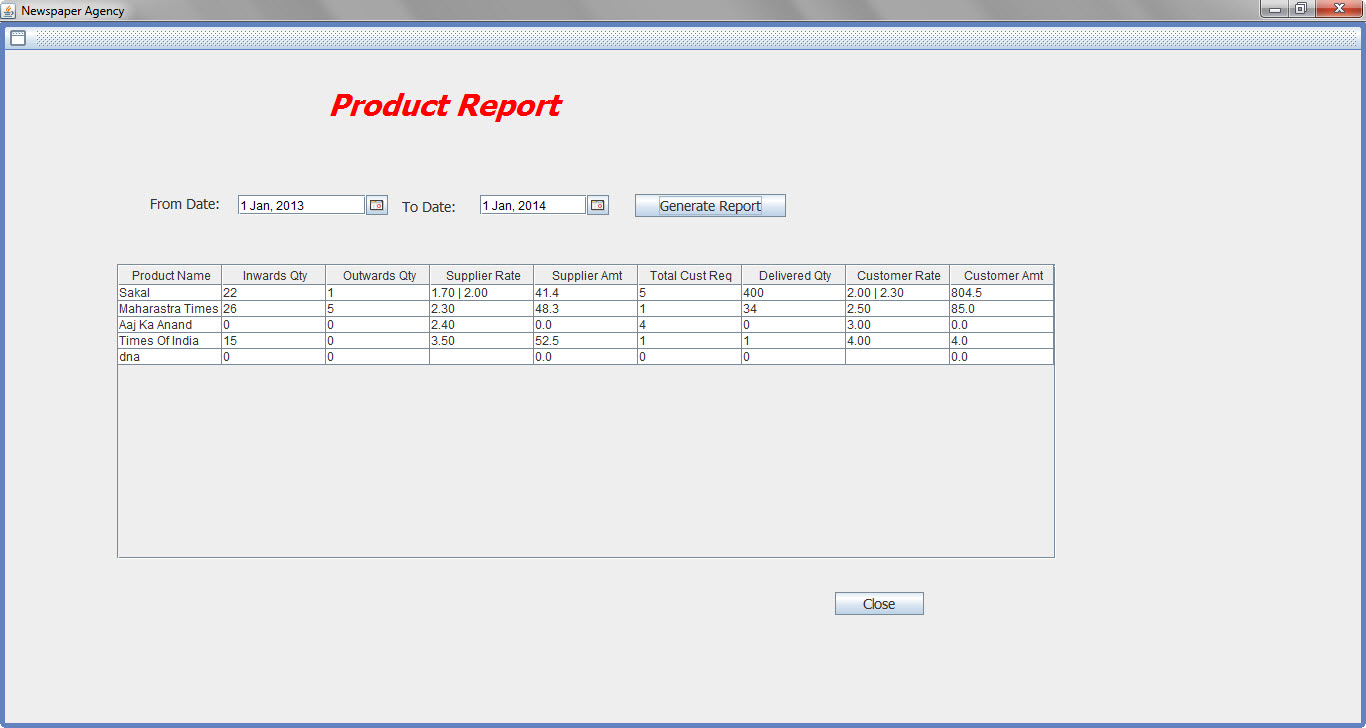
Daily Customer Update:



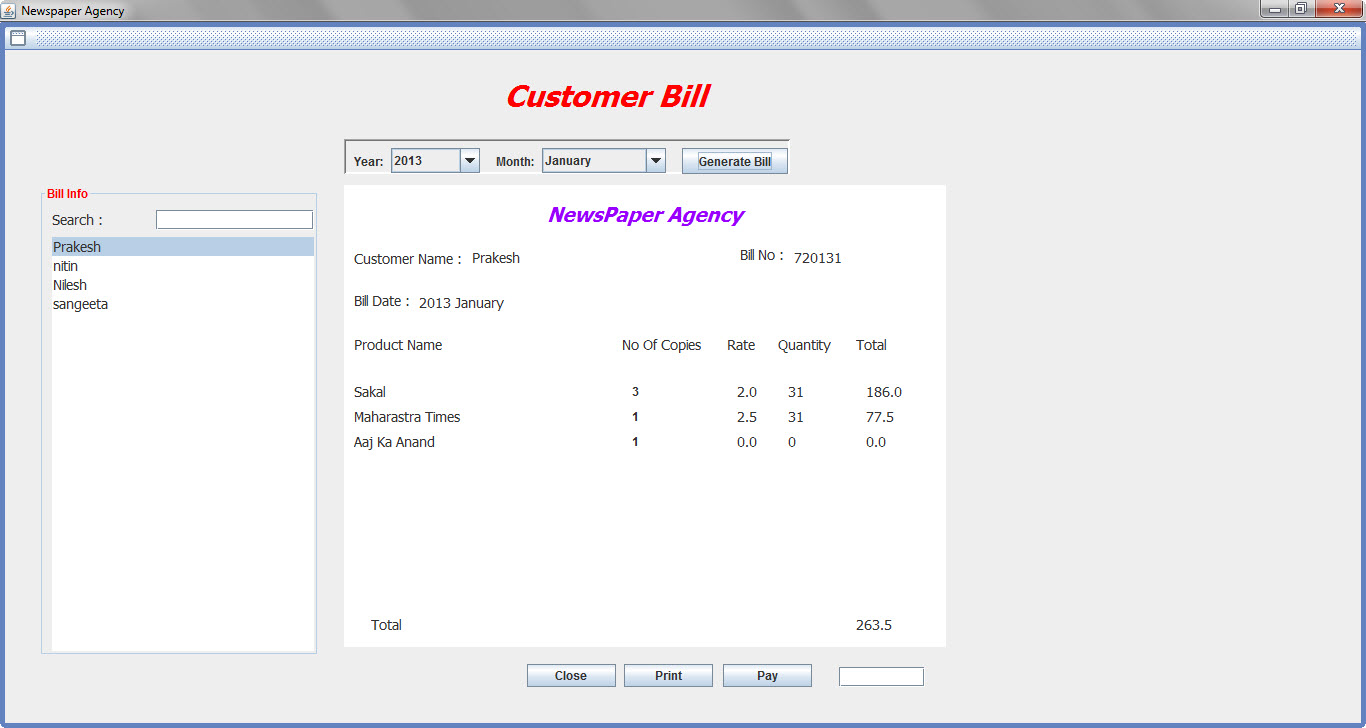
Daily Stock Update:



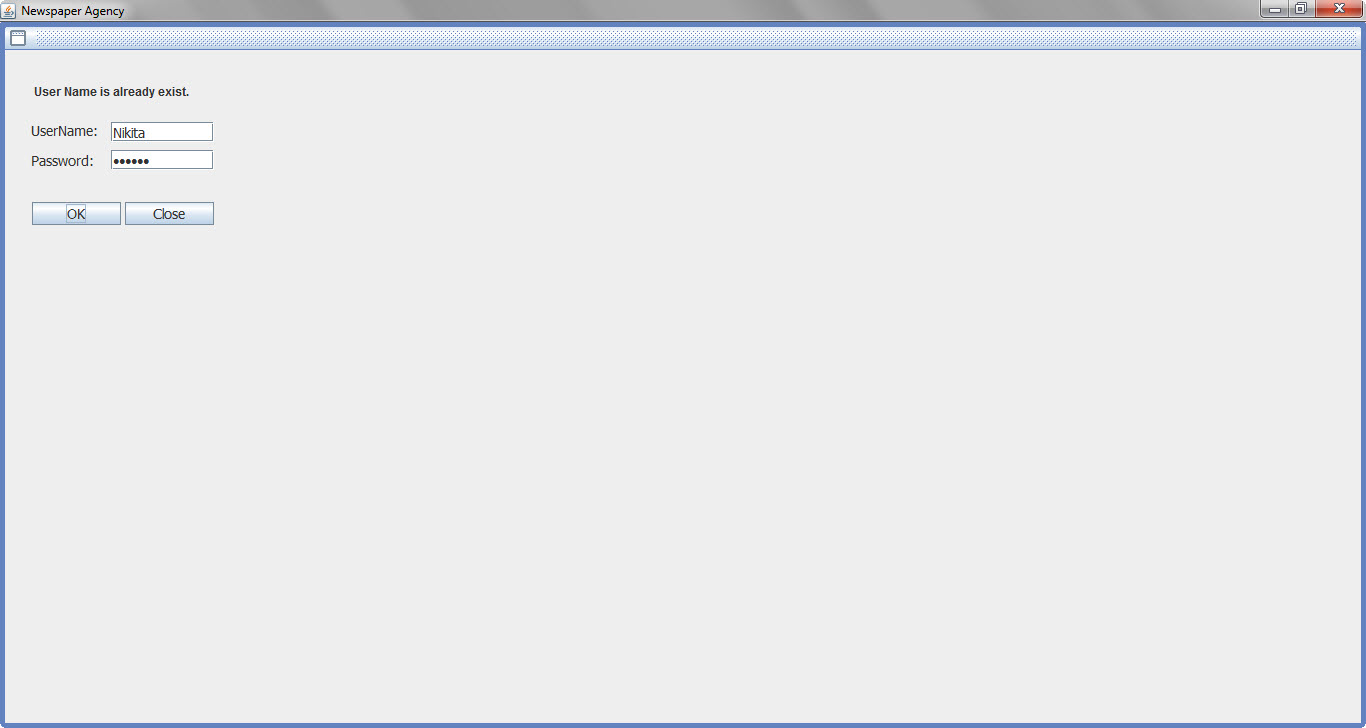
Product Report :



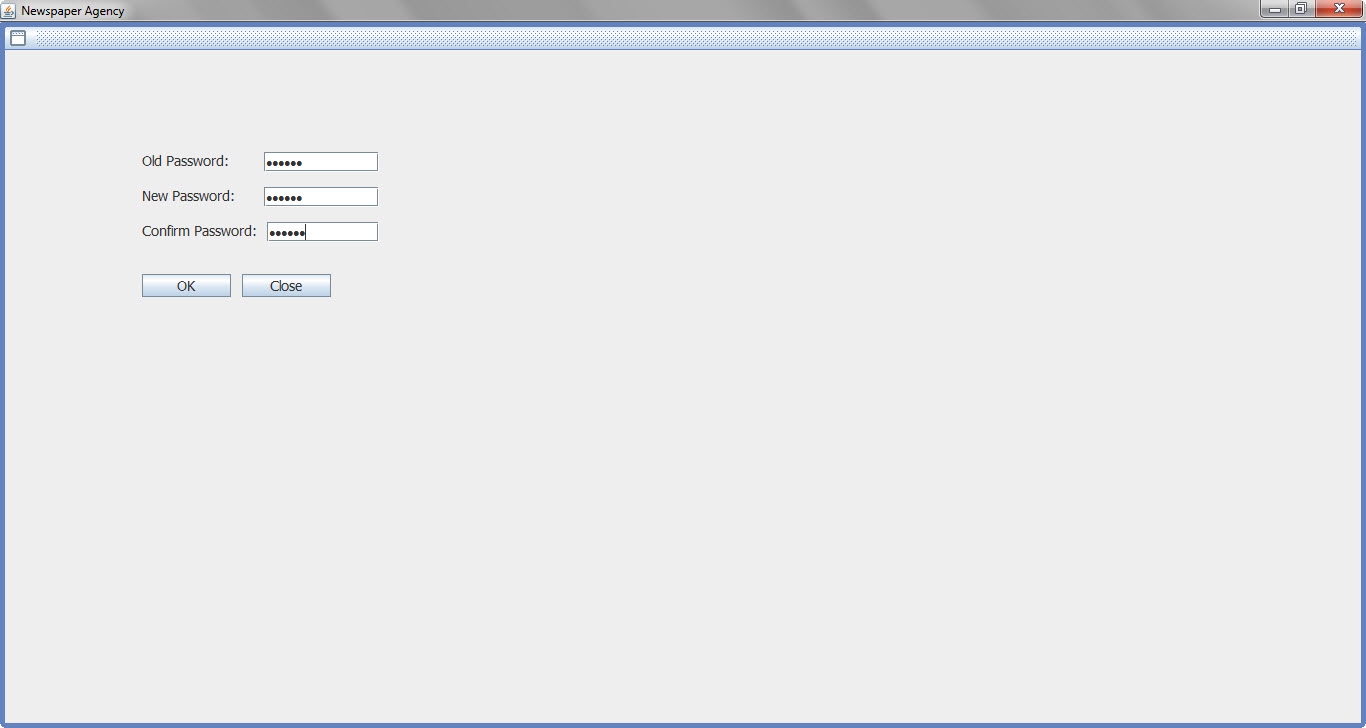
Customer Bill:



Register(New User):



Change Password:



**Bibliography**

We have referred the following books while developing our project.

They have provided us the vital information we needed.

* Java 2: The Complete Reference.
* Google search engine