



# ***Rajiv Gandhi University of Knowledge Technologies***

(Act 18 of 2008 & Act 8 of 2019)  
Basar Village , Nirmal Dist.Telangana – 504107,India

## **PROJECT REPORT**

### **SOFTWARE REQUIREMENT SPECIFICATION for NEWSPAPER AGENCY SYSTEM**

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# **1. INTRODUCTION**

## **1.1 ABSTRACT :**

Our project named “NEWSPAPER AGENCY SYSTEM” , shortly known as NAS is to be used by the manager of the news agency and his delivery persons. For each delivery person, the system must print each day the publications to be delivered to each address. Customers usually subscribe one or more newspapers. They are allowed to change their subscription list. The system should also print for the news agent the information regarding customer i.e address of the customer and it should show the addresses that the customer who has paid the bill.

## **1.2 PURPOSE :**

News Paper Agency System is a circulation software and subscription management for newspaper distributors. It is a multiple newspaper subscription management software system that handles newspaper circulation. This newspaper circulation system is designed for small publishers and both small and large home delivery and retail outlet distribution operations and will give you the kind of control you want and need when you are responsible for the management and delivery of many different kinds of newspaper publications.

## **1.3 SCOPE :**

The proposed software product is the Newspaper Agency System.

The system will be used to manage the delivery of newspapers in some states of India. The intentions of the system are to integrate the management of delivering in some states of India and make the delivery more accurately. Requirements statements in this document are both functional and non-functional.

## 2.OVERALL DESCRIPTIONS

### 2.1 FUNCTIONAL REQUIREMENTS :

#### Add Newspaper\_details:

The NewsAgent add the information about newspaper and Manager can add the information about NewsAgent.

#### Input :

- NewsAgent enter the newspaper name,price and Manager enter the NewsAgent details.

#### Processing :

- NewsAgent enter the newspaper name,price and Manager enter the NewsAgent details to add the information.

#### Output :

- Successfully add information.

#### Edit Newspaper\_details:

- The Customer edit his/her profile, and NewsAgent edit the information about newspaper.

#### **Input :**

- Customer update his name, address, phoneno and NewsAgent update newspaper name, price of the specified newspaper.

#### **Processing :**

- Customer update his name, address, phoneno and NewsAgent update newspaper name, price of the specified newspaper through his/her edit profile.

#### **Output :**

- Successfully updated.

#### **View information:**

- The Manager view the information about Customer & Newsagent and Newsagent view the customer information.

#### **Input :**

- Manager and Newsagent click the view information button to view the customer details.

#### **Processing :**

- Manager and Newsagent view the information through view information profiles.

#### **Output :**

- Successfully view the information.

### **Remove information:**

- Manager remove customer and Newsagent through remove profile.

### **Input :**

- Manager can click the remove information button to remove the details of the customer and Newsagent.

### **Processing :**

- Manager remove customer and Newsagent details through remove profile.

### **Output :**

Successfully remove the customer & Newsagent details.

## **2.3 LOGICAL DATABASE REQUIREMENTS**

All the data is saved in the database:

- Customer information
- Newsagent information
- Newspaper information
- Bills information

The database allows concurrent access by various cashiers and is kept consistent at all the times requiring a good database design.

The news agent table is as follows:

Field	Type	Null	Key
nid	Int(10)	NO	PRIMARY
name	Varchar(100)	NO	
emailid	Varchar(100)	NO	
pwd	Varchar(100)	NO	
cpwd	Varchar(100)	NO	
address	Varchar(100)	NO	
state	text	NO	
phoneno	Varchar(10)	NO	

The customer table is as follows:

Field	Type	Null	Key
cid	Int(10)	NO	PRIMARY
name	Varchar(100)	NO	
emailid	Varchar(100)	NO	
pwd	Varchar(100)	NO	
cpwd	Varchar(100)	NO	
address	Varchar(100)	NO	
state	text	NO	
phoneno	Varchar(10)	NO	
newspaper	Varchar(100)	NO	
status	Varchar(20)	NO	
date	Varchar(200)	NO	

The bill table is as follows :

Field	Type	Null
cid	Int(10)	NO
amount	Int(100)	NO
a_name	Varchar(100)	NO
card_no	Bigint(255)	NO
cvv	Varchar(100)	NO
expired_date	Varchar(20)	NO
date	Varchar(20)	NO

The newspaper table has the following fields :

Field	Type	Null	Key
papername	Varchar(50)	NO	
cost	Int(10)	NO	

## 2.4 NON-FUNCTIONAL REQUIREMENTS:

### Performance :

High level of performance requires high speed network and high level of connectivity.

### Reliability :

The available server must be reliable and the network connectivity in the News agency should be proper for smooth flow of all operations and data.

### **Security :**

Every user of the software is provided a unique login ID and a password which is stored in the database.

### **Availability :**

The software is available for use from the News agency opening time to the closing time.

## **3.EXTERNAL INTERFACE REQUIREMENTS**

### **3.1 INTERFACES :**

#### **Admin interface :-**

The NAS screen displays interface to view the inventory, add Newsagents & remove the customers and Newsagents.

#### **Customer interface :-**

The NAS screen displays interface to view his/her information , edit his profile and pay the bill for Newspaper.

#### **News Agent interface :-**

The NAS screen displays an interface to add & edit Newspapers , and prints a bill for the publication.

#### **Hardware interfaces :**

For the software to function properly, and to add the Newsagent. The automated price is calculated and Newspaper is supplied.

### **Software interfaces :**

#### **Inventory query**

- The admin queries the Newspaper whose details he/she wishes to view.
- The NAS programmatically determines the details of the Newspaper.
- The NAS displays information about the product.
- The Newsagent selects the option to change the Newspaper details which updates the corresponding in the inventory.

#### **Add to inventory**

- The Newsagent can add the information about the Newspaper . And manager can add Newsagent details.
- The NAS updates the Newspaper details in its inventory and gives a confirmation message.

#### **Communication interface**

- Any changes made to the inventory of the News agency is automatically updated in the inventory which has been set up in a separate server in the News agency itself.

### **3.2 OPERATING SYSTEM USED :**

1.Linux

### **3.3 TECHNOLOGIES USED :**

1.NetBeans IDE

## 2.Xampp

# 4. UNIFIED MODELLING LANGUAGE REPRESENTATIONS

## 4.1 USE CASE DIAGRAM:

### Usecase-Manager:

**Summary** --- Manager manages the Newsagents and view the customer & Newsagent details and remove the newsagent and customer details.

**Actors** ----- Manager

**Post-conditions** --- The updates are reflected on the inventory.

### 2.Usecase-:Newsagent

**Summary**--- Newsagent manages update and add the Newspaper details. And print the address of customer who is subscribe the Newspaper.

**Actors** -----Newsagent

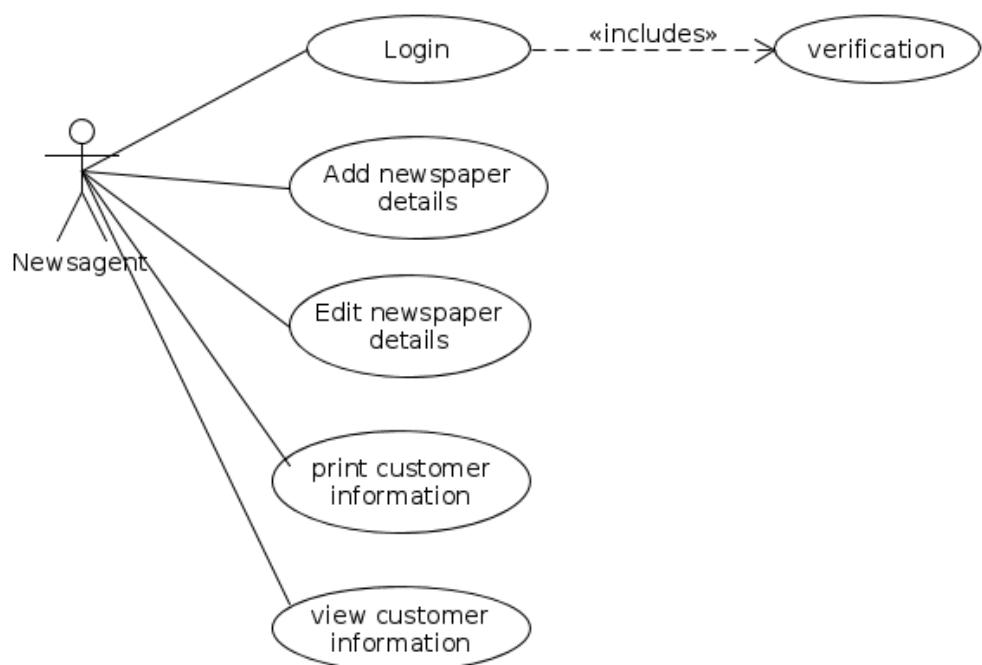
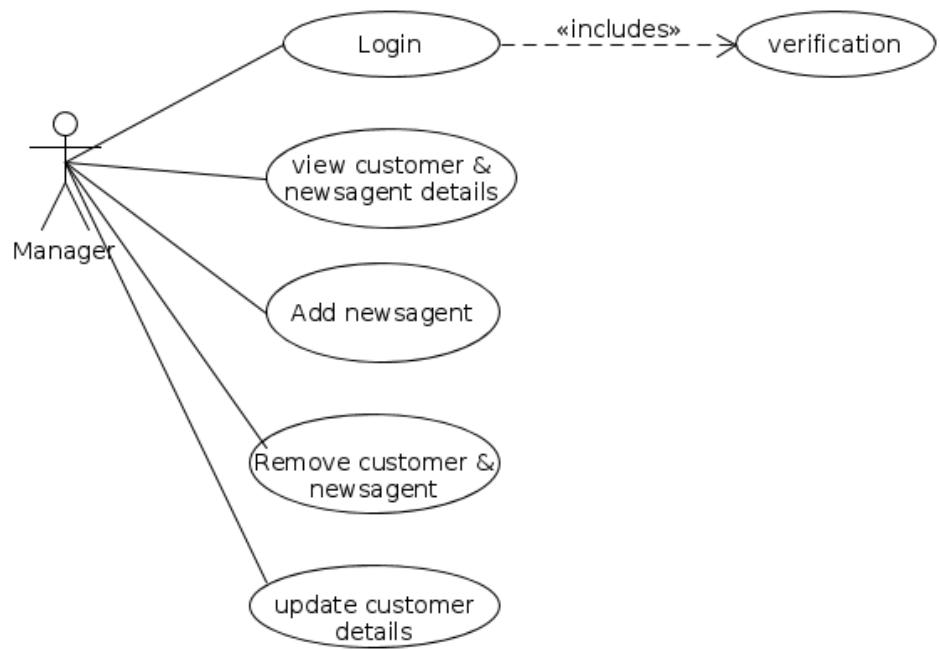
**Post-Conditions**- Address of the customer is printed to supply the Newspaper.

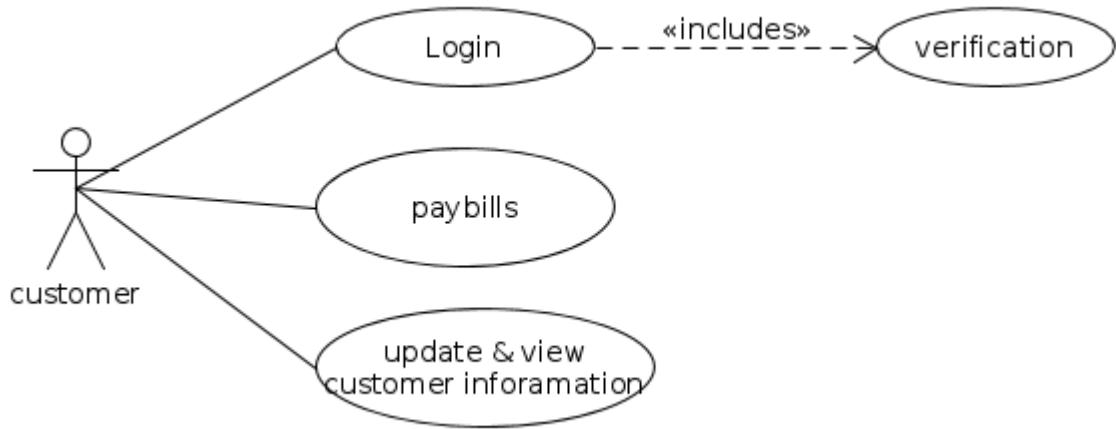
### 3.Usecase-:Customer

**Summary**--- Customer has to pay the bill and he/she can view the his/her information whether he/she is paid the bill or not. And edit his/her profile.

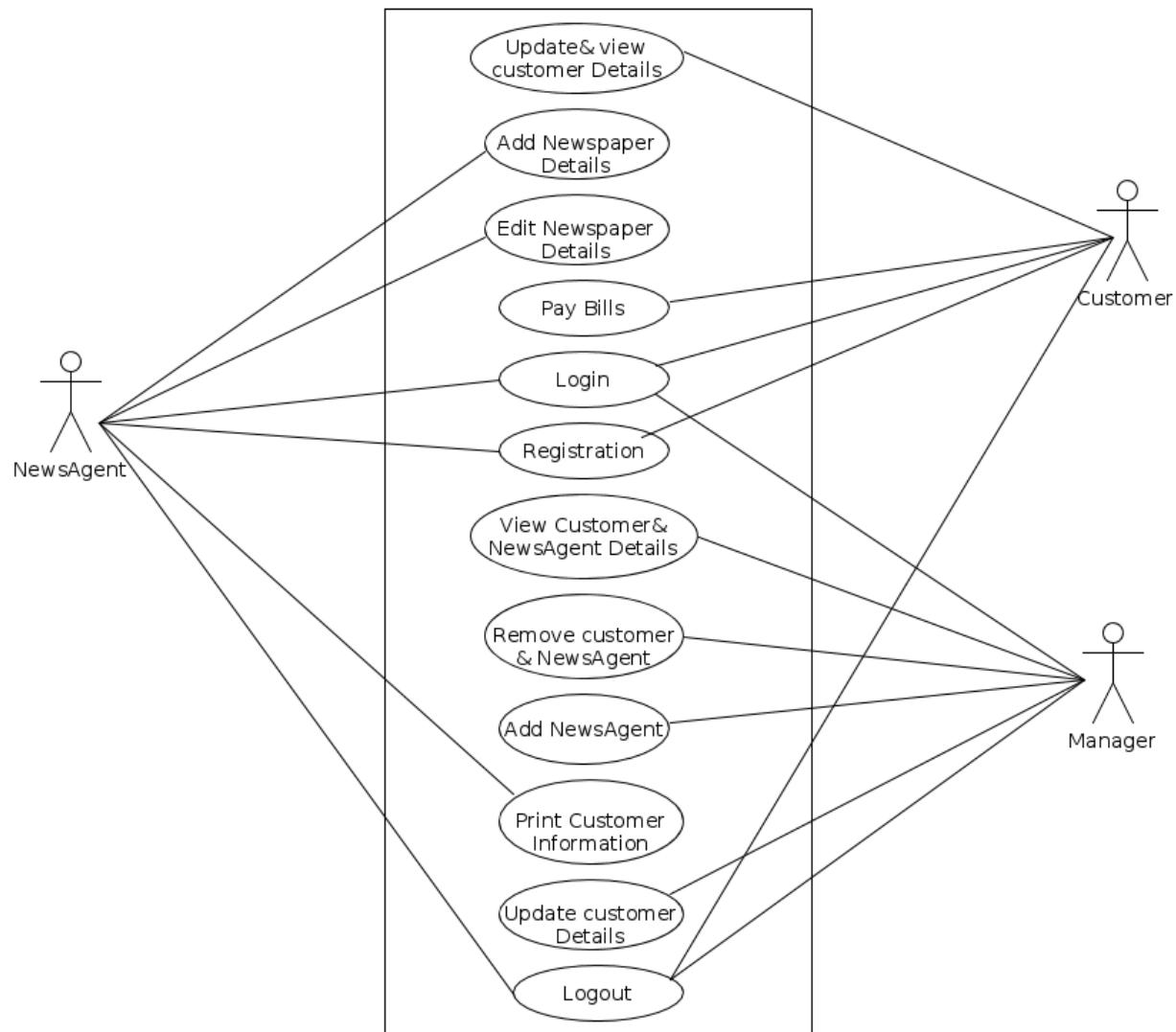
**Actors** -----Customer

**Post-Conditions**- successfully edited and bill payment has done successfully.





The main use case diagram for the News Agency Automation Software :



## **4.2 CLASS DIAGRAM :**

Class diagram is a graphical representation of the static view of the system and represents different aspects of the application. A collection of class diagrams represents the whole system.

The following are the functionalities that the manager has,

### **1)Add\_Newsagent:**

Manager adds the Newsagent. He can add many Newagents as he need.

### **2)View\_Newsagent:**

Manager is subjected to view Newsagent and his details that he has added.

### **3)View\_Customer:**

Manager is subjected to view customer and his details that whether he/she has paid the bills or not.

### **4)Update\_Customer\_details:**

Manager updates the details of customer i.e paid/unpaid in inventory of News agency.

### **5)Remove\_Customer:**

Manager can checkout the bill details that are made by the customer , if he/she is not pay the bill he can removed the customer.

### **6)Remove\_News agent:**

Manager can checkout the work that are made by the Newsagent ,if he/she does not do the work properly then he can remove the Newsagent.

The following are the functionalities that the Newsagent has,

### **1)Add\_Newspaper:**

Newsagent can add the newspaper details i.e., Newspaper name , price.

### **2)Edit\_Newspaper:**

The Newsagent shall be allowed to modify the pre-existing data from the system when the modifications are required.

### **3)Print\_Customer address:**

The system should allow the Newsagent to print the address of the customers for the Newspaper delivery everyday.

### **4)View\_Customer\_details:**

Newsagent can view the customer details to know the customers who have paid or unpaid , to supply the Newspaper.

The following are the functionalities that the customer has,

### **1)Update\_profile:**

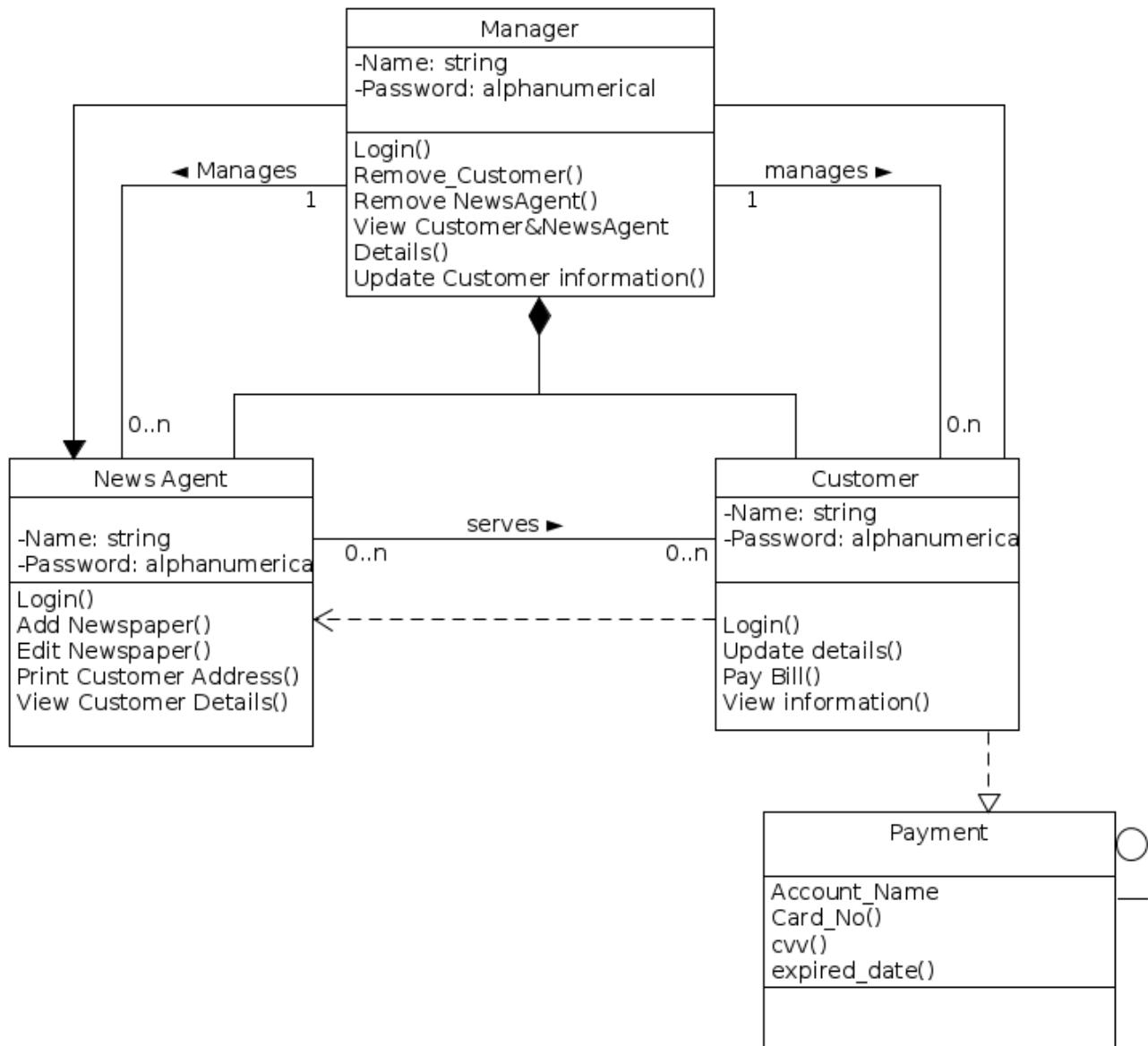
Customer can update his/her details i.e., address , phoneno , Newspapaer name etc..

### **2)View\_information:**

Customer can view his/her information whether his/her edited details updated or not.

### 3)Pay\_bill:

Customer has to pay the bill to get the Newspaper .



#### **4.3 SEQUENCE DIAGRAM :**

A sequence diagram shows object interactions arranged in time sequence. It depicts the objects and classes involved in the scenario and the sequence of messages exchanged between the objects needed to carryout the functionality of the scenario.

##### **1)Register():**

Newsagent & Customer register to his system, then Newsagent is supposed to print the address for customer. Without customer register , he can not be accessed to subscribe the Newspaper.

##### **2)Pay\_bills():**

Customer has to pay the bill in order to get the Newspaper. Mean while transaction is created. After that inventory is updated if customer paid the bill.

##### **3)Add\_Newsagent():**

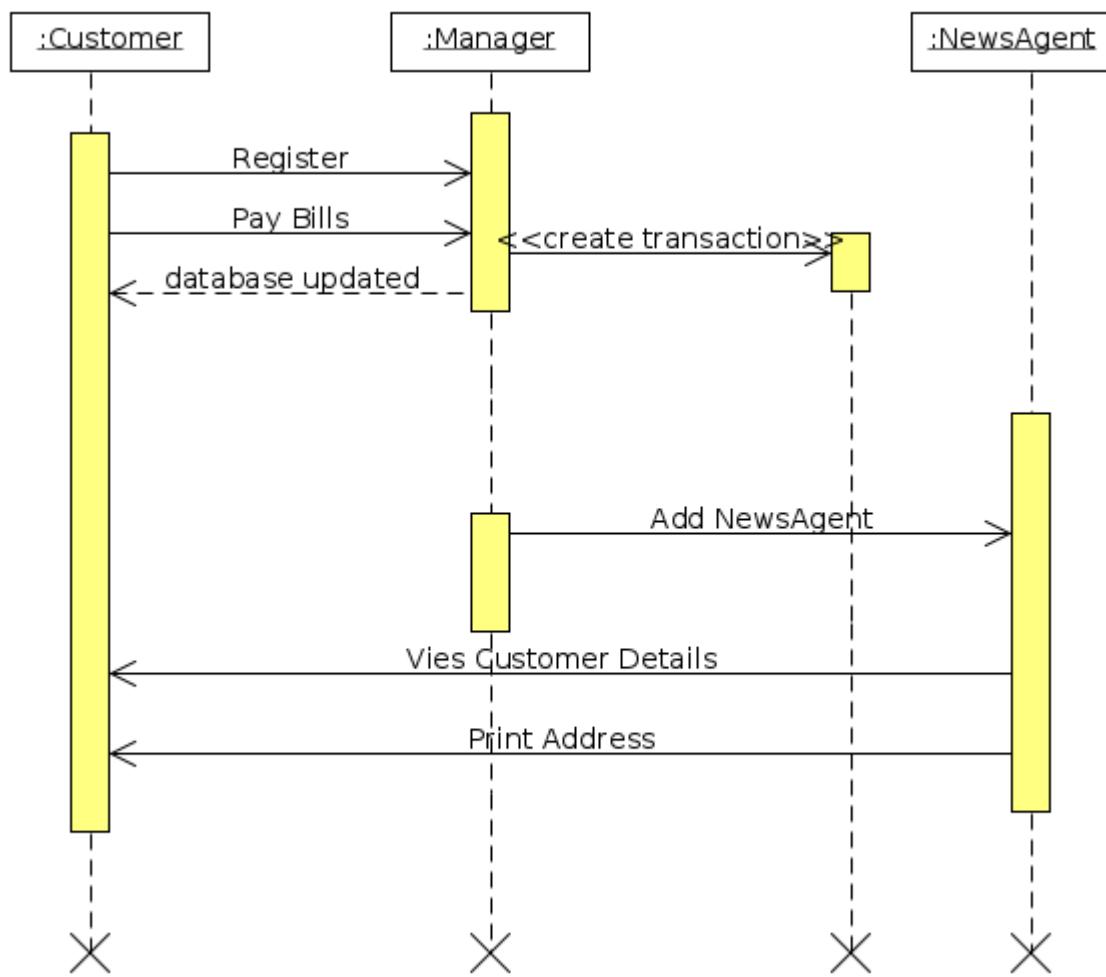
Manager has right to add the Newsagent based on his requirement.

Newsagent can do some work based on manager & customer requirements i.e., print customer address, add & edit Newspaper etc..

##### **4)View\_Customer\_Details():**

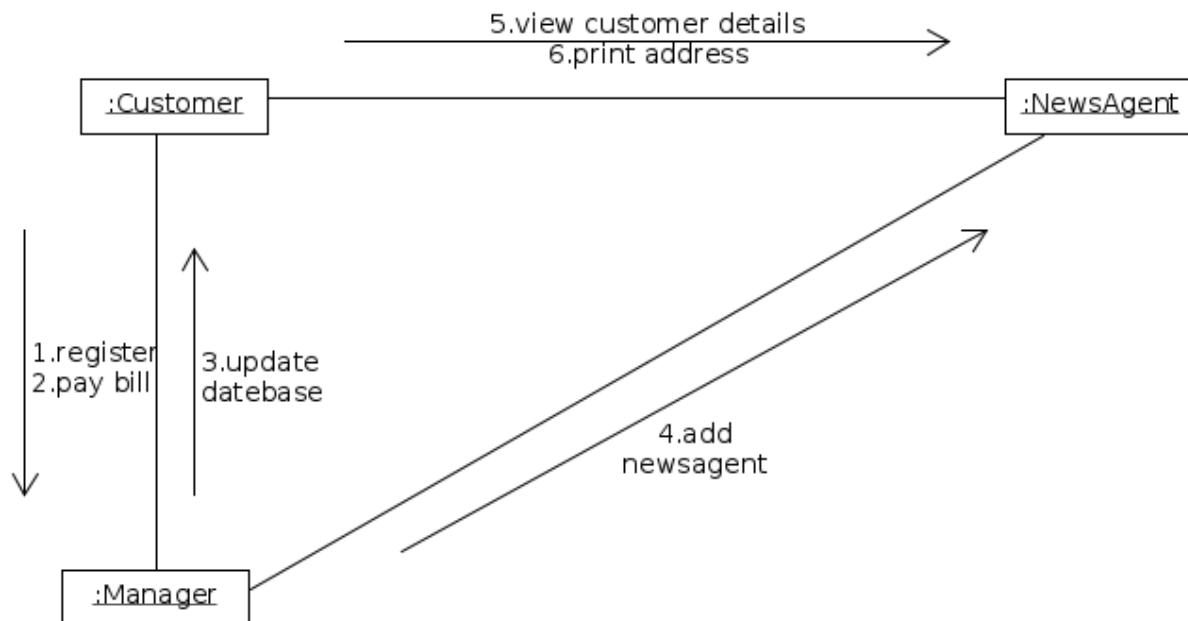
Manager can update the customer details if he/she pay the bill. Then customer details viewed by both Manager & Newsagent. Newsagent can print the customer address and Manager can remove the customer based on his status(paid/unpaid).

Sequence diagram for Newspaper publication between customer , Newsagent & Manager :



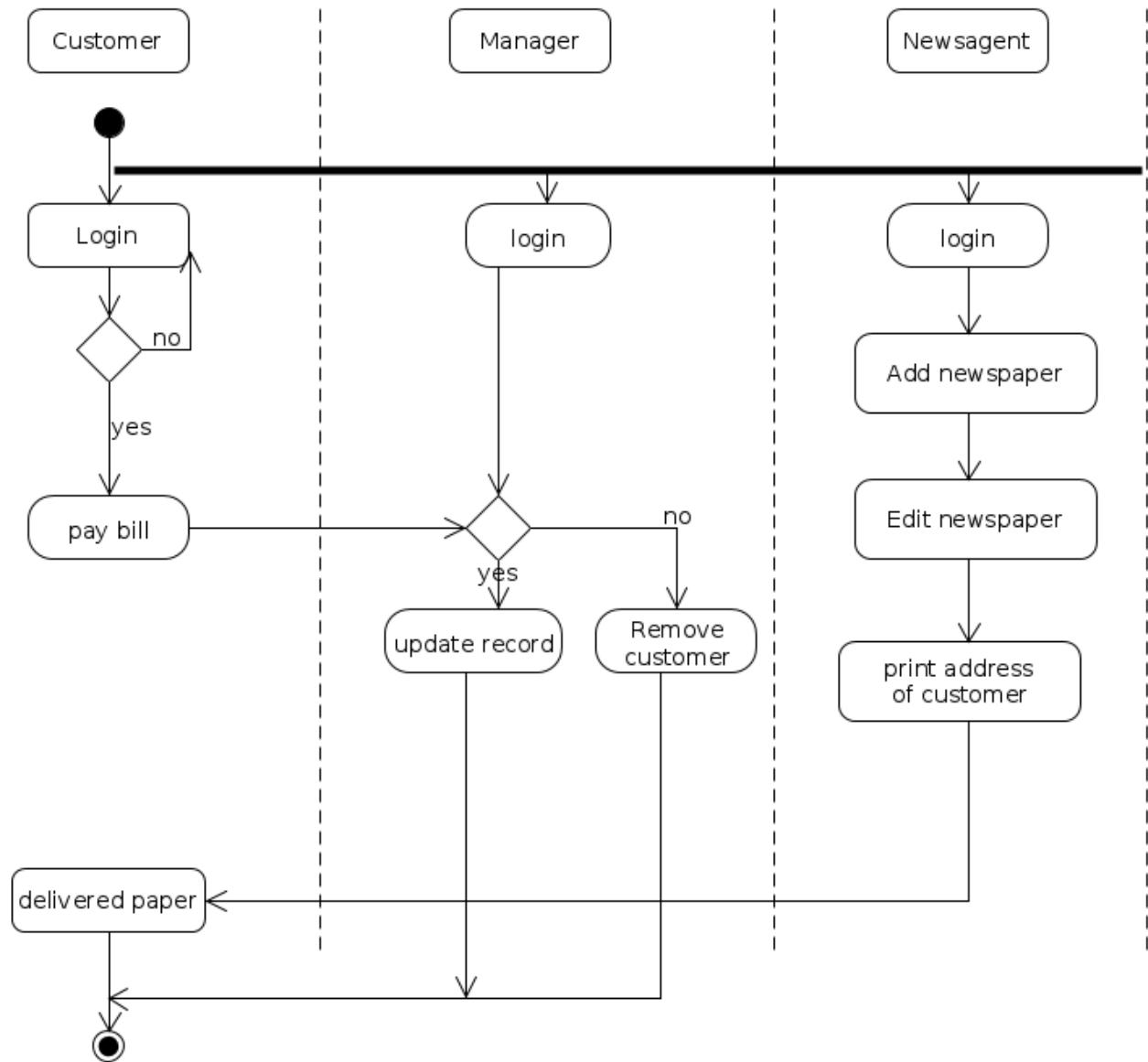
#### 4.4 COLLABORATION DIAGRAM:

It is also called communication or interaction diagram. It is an illustration of the relationships and interaction among software objects in the UML.



#### 4.5 ACTIVITY DIAGRAM:

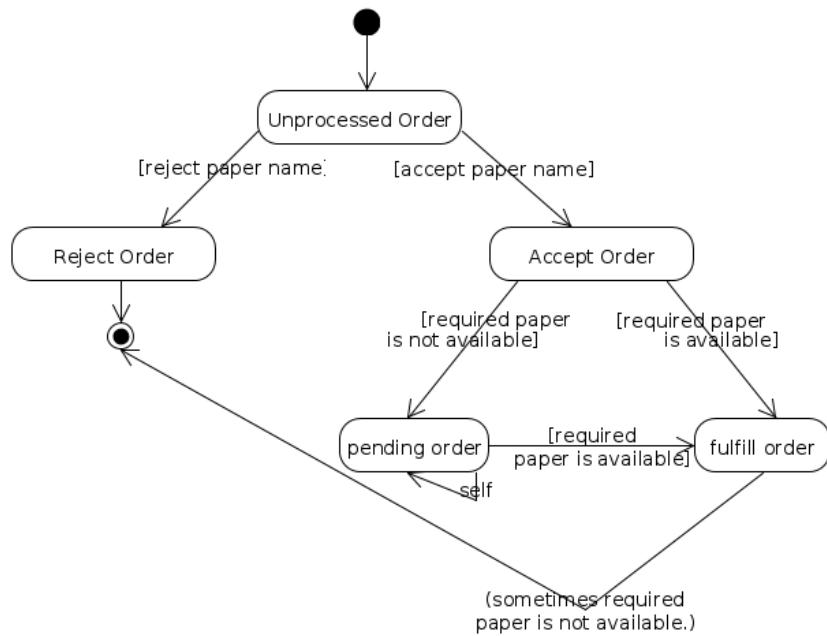
Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as operation of the system.



#### 4.6 STATE CHART DIAGRAM :

A state diagram is used to represent the condition of the system or part of the system at finite instances of time. It's a behavioral diagram and it represents the behavior using finite state transitions. State diagrams are also referred to as State machines and State-chart Diagrams. These terms are often used interchangeably. So simply, a state diagram is used to model

the dynamic behavior of a class in response to time and changing external stimuli. We can say that each and every class has a state but we don't model every class using State diagrams. We prefer to model the states with three or more states.



## 5.OVERVIEW OF PROJECT

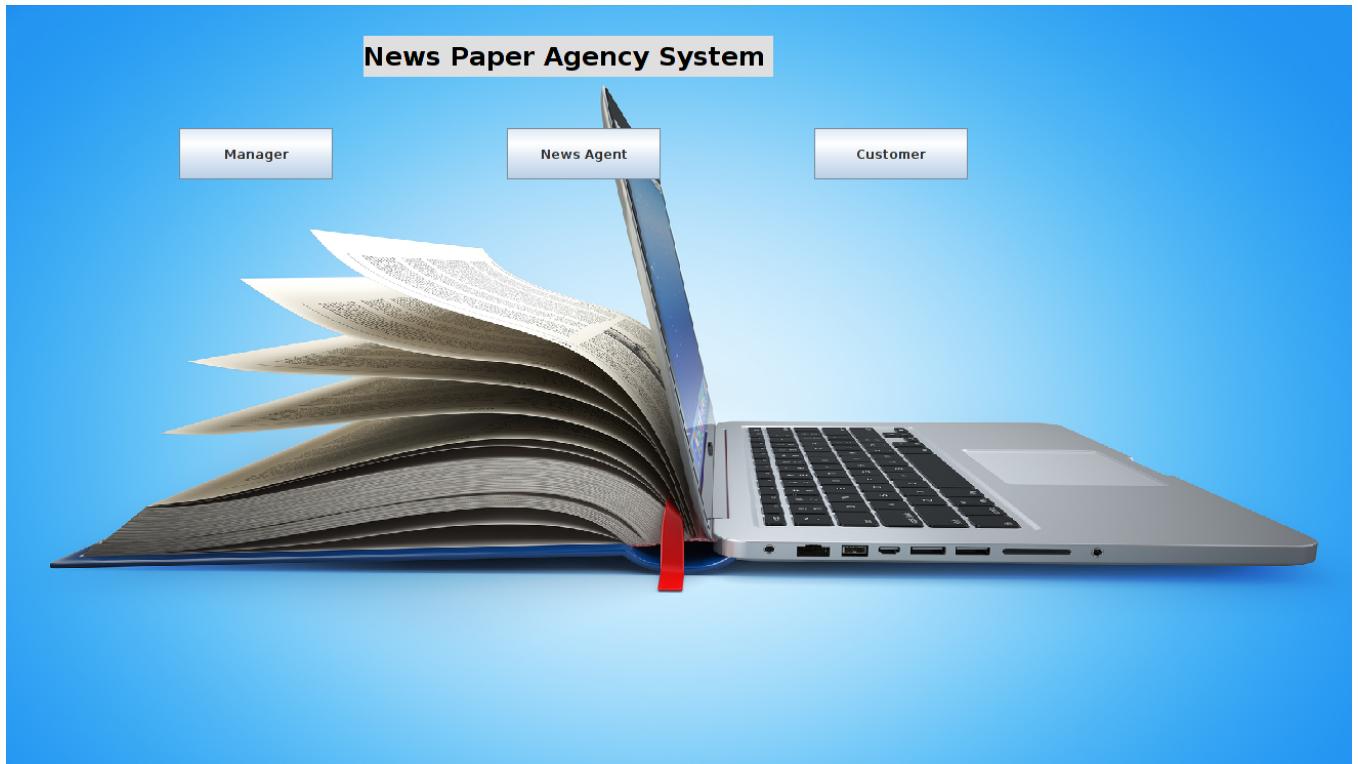
This Software Requirements Specification (SRS) is the requirements that formally specifies Newspaper Agency System(NAS) included systems

analysis efforts. Various techniques were used to elicit the requirements and we identified the needs, analyzed and refined them. The aims of this document is to formally describe the system's high level requirements including functional requirements, design constraints, non-functional requirements, performance requirements, maintainability.

The system looks like the following :

The main frame has the buttons of Manager , Newsagent and the customer.

If Manager clicks the Manager button,it redirect to Managers loginpage.



The manager's login would guide to the next frame where the page asks for the entry of managers's id and password.

[Back](#)

### Manager Login Form

User Name:

Password

If login id & password id correct, it will redirect to manager homepage.



After clicking Add NewsAgent, it will redirect to Add Newsagent page and fills the Newsagent details.

[Back](#) **Add Newsagent**

NewsAgentId:	<input type="text" value="382058"/>
Name:	<input type="text"/>
Email-ID:	<input type="text"/>
Create Password:	<input type="text"/>
Confirm Password:	<input type="text"/>
address:	<input type="text"/>
State:	<input type="text"/> ▾
Phone No:	<input type="text"/>

After clicking Newsagent details Manager can able to see the Newsagent details.

News AgentID	Newsagent name	Email	Password	confirm password	address	state	phone_no
158517	sabitha	sabitha1454@gmail.com	Sabitha@123	Sabitha@123	medipally,123-86	Telangana	9052108921
217265	Kavitha Nune	Kavitha123@gmail.com	Kavitha@123	Kavitha@123		Chhattisgarh	8374184168
952331	padma	padma1476@gmail.com	Padma@123	Padma@123	wanaprthy,32-86	Telangana	8499452645
961360	neelima	neelima1477@gmail.com	Neelima@123	Neelima@123	narsannapet,2-136	Andhra pradesh	9550050671

After clicking Customer details manager can able to see the customer details.

User name	Email	Password	address	state	phone_no	Newspaper Name	Status
sabitha	Sabitha1454@gmail.com	Sabitha@123	medipally	medipally	9052108921	andhrajyothi	PAID
chandana gardas	chandana1499@gmail.com	Chandana@123	sircilla	sircilla	9052108921	Eenadu (Rs.9)	UNPAID
neelima	neelima1477@gmail.com	Neelima@123	narsannapeta	narsannapeta	9550050671	andhrajyothi	PAID
padma	padma1476@gmail.com	Padma@123	wanaparthy,32-86	wanaparthy,32-86	8499452456	Eenadu	PAID

After clicking Remove Newsagent button Manager should provide Newsagent id , so that Newsagent can be removed.

**Removing NewsAgent**

Enter newsagent ID

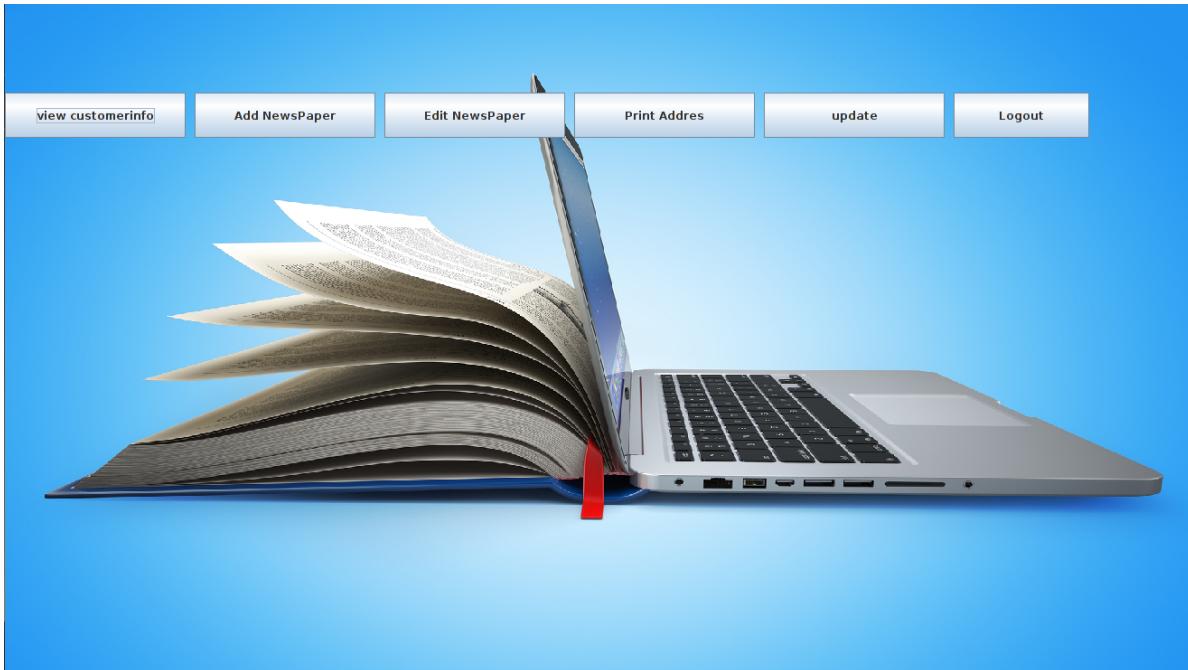
After clicking Remove Customer button Manager should provide customer id , so that customer can be removed.

The screenshot shows a web page with a light gray background. In the top-left corner, there is a small blue rectangular button labeled "Back". Below it, the title "Removing Customer" is displayed in red capital letters. Underneath the title, there is a form with the label "Enter Customer ID" followed by a text input field. Below the input field is a blue rectangular button labeled "submit".

If Newsagent is clicks the NewsAgent button,it redirect to Newsagent loginpage.

The screenshot shows a web page with a light gray background. In the top-left corner, there is a small blue rectangular button labeled "back". Below it, the title "Newsagent Login Form" is displayed in blue capital letters. The page contains two text input fields: one for "Newsagent ID:" and one for "Password". Below these fields are two blue rectangular buttons: "Login" on the left and "Change pass..." on the right.

If login id & password id correct, it will redirect to Newsagent homepage.



By clicking on Add Newspaper ,it will be redirect to Add Newspaper page and Newsagent should provide papername and cost.

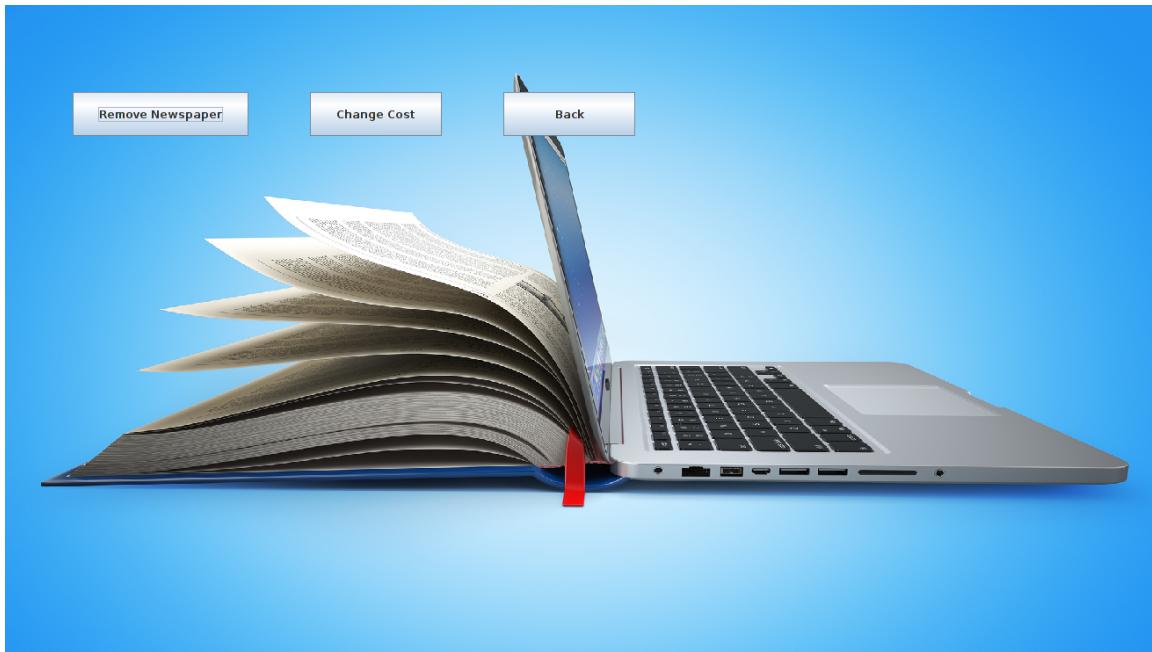
Back

**ADD NEWS PAPER**

Newspaper name:

Cost

By clicking on Edit Newspaper button Newsagent can edit the Newspaper and cost details.



By clicking on view Customer info button , Newsagent can see the details of customer.

User name	Email	Password	address	state	phone_no	Newspaper Name	Status
sabitha	Sabitha1454@gmail.com	Sabitha@123	medipally	medipally	9052108921	andhrayothi	PAID
chandana gardas	chandana1499@gmail.com	Chandana@123	sircilla	sircilla	9052108921	Eenadu (Rs.9)	UNPAID
neelima	neelima1477@gmail.com	Neelima@123	narsannapeta	narsannapeta	9550050671	andhrayothi	PAID
padma	padma1476@gmail.com	Padma@123	wanaparthys,32-86	wanaparthys,32-86	8499452456	Eenadu	PAID

By clicking on Print address button , Newsagent can able to print the address of the customer who has paid the bills.

User name	Email	Password	address	state	phone_no	Newspaper Name	Status
sabitha	Sabitha1454@gmail.com	Sabitha@123	medipally	medipally	9052108921	andhrayothi	PAID
neelima	neelima1477@gmail.com	Neelima@123	narsannapeta	narsannapeta	9550050671	andhrayothi	PAID
padma	padma1476@gmail.com	Padma@123	wanaparthy,32-86	wanaparthy,32-86	8499452456	Eenadu	PAID

If customer clicks the Customer button,it redirect to customer loginpage.

[Back](#)

**Customer Login Form**

User ID:

Password:

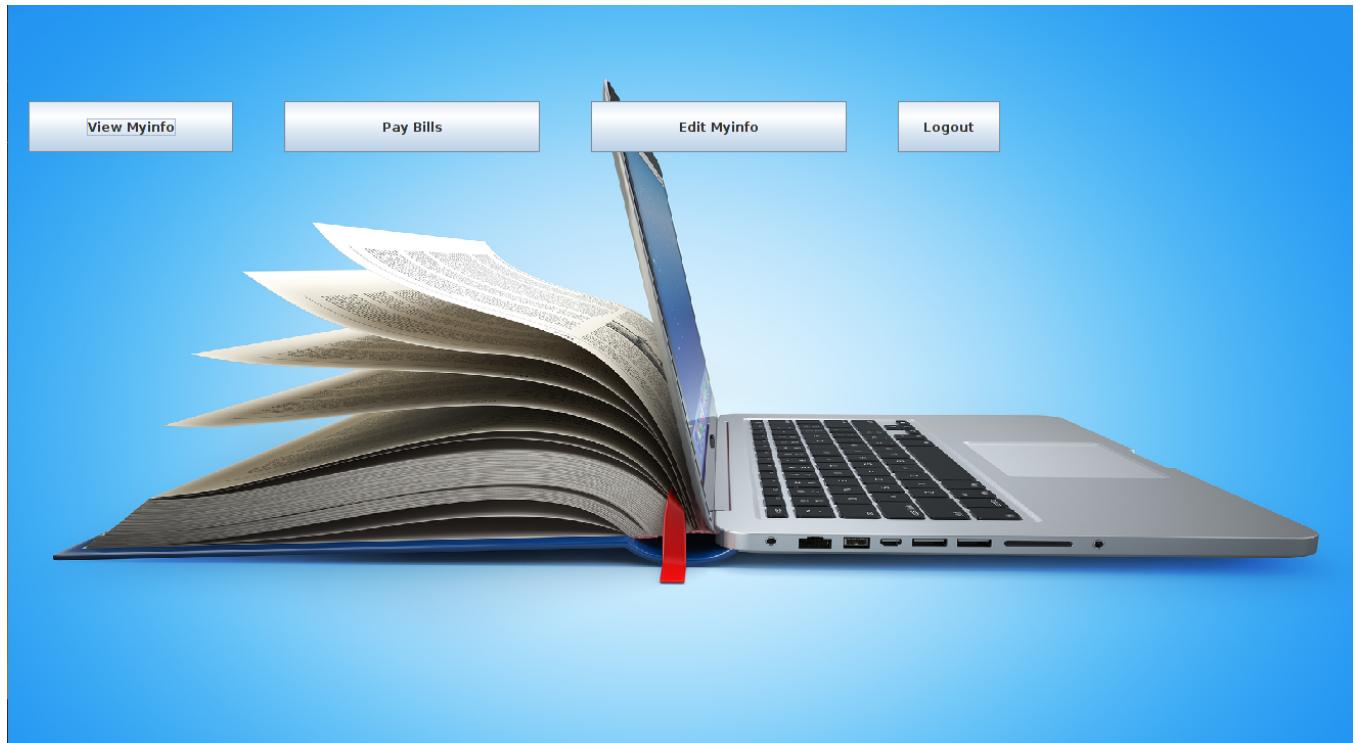
If he is new user it will redirect to Registration page.

[Back](#)

**Registration Form :**

Customerid:	737668
Name:	<input type="text"/>
Email-ID:	<input type="text"/>
Create Password:	<input type="password"/>
Confirm Password:	<input type="password"/>
address:	<input type="text"/>
District:	Andhra pradesh <input type="button" value="▼"/>
Phone No:	<input type="text"/>
Newspaper Name:	andhra jyothi (Rs.3) <input type="button" value="▼"/>

If he is authorized person it will redirect to customer homepage.



By clicking on the View MyInfo button it will show his/her information.

User name	Email	Password	address	state	phone_no	Newspaper Name	Status
sabitha	Sabitha1454@gmail.com	Sabitha@123	medipally	medipally	9052108921	andhrayothi	PAID
neelima	neelima1477@gmail.com	Neelima@123	narsannapeta	narsannapeta	9550050671	andhrayothi	PAID
padma	padma1476@gmail.com	Padma@123	wanaparthy,32-86	wanaparthy,32-86	8499452456	Eenadu	PAID

By clicking on Edit MyInfo , he/she can able to edit his/her information.

**Edit Form :**

Name:	<input type="text"/>
Email-ID:	<input type="text"/>
Create Password:	<input type="text"/>
Confirm Password:	<input type="text"/>
address:	<input type="text"/>
State:	<input type="text" value="Andhra pradesh"/>
Phone No:	<input type="text"/>
Newspaper	<input type="text" value="andhrayothi"/>
<input type="button" value="Edit"/>	<input type="button" value="Clear"/>

By clicking on Pay bills ,Customer can pay the bill.

back

<b>Customer ID</b>	<input type="text" value="926620"/>
<b>Amount</b>	<input type="text"/>
<b>Accountant Name</b>	<input type="text"/>
<b>Card Number</b>	<input type="text"/>
<b>CVV</b>	<input type="text"/>
<b>Expired Date</b>	<input type="text"/> / <input type="text"/> (MM/YYYY)
<b>Enter Date</b>	<input type="text"/> <input type="button" value=""/>
<input type="button" value="Pay Bill"/>	





