

SYSTEM REQUIREMENT SPECIFICATION

PURPOSE:

The purpose of this document is to describe the external requirements for a Newspaper Agency Automation system for a Newspaper Agency. It also describes the interfaces for the system.

The system has to be used to be used to provide automation to the newspaper agency. It will enable the agency to ease the processes of delivering subscriptions, managing dues, generating bills, temporarily or permanently stop subscriptions and other related activities.

SCOPE:

This document is the only one that describes the requirements of the system. It is meant for use by the developers and will be the basis for validating the final delivered system. Any changes made to the requirements in the future will have to go through a formal change approval process. The developer is responsible for asking for clarifications, where necessary, and will not make any alterations without the permission of the client.

DEFINITIONS, ACRONYMS AND ABBREVIATIONS:

Acronyms and Abbreviations:

- a. NAAS: Newspaper Agency Automation System.
- b. SRS: Software Requirements Specification.
- c. WWW: World Wide Web.
- d. GUI: Graphical User Interface.

PRODUCT FUNCTIONS:

CLASS OF USE CASES	USE CASES	DESCRIPTION OF USE CASES
System Authorization	Login	Login into customer's database
	Create account	Create new account of customer
Printing	Printing Publications	Publications required by each delivery person
	Printing Bills	At the beginning of every month bills must be printed
	Printing Receipt	On entering cheque number or cash a receipt is printed for the customer
Subscriptions	Subscription change	Change in subscription
	Subscription temporary stop	In case customer is not at home
	Subscription permanent stop	If customer wants to discontinue the subscription
Dues manager	Outstanding dues	Prints polite reminder or stops the subscription

USER CHARACTERISTICS:

The main users will be the manager and delivery persons of the newspaper agency who are somewhat literate with computers and can use the programs such as editors and text processors.

PRINCIPAL ACTORS:

The two principal actors in NAAS are “user” and “system”.

SPECIFIC REQUIREMENTS:

1. FUNCTIONAL REQUIREMENTS:

We describe the functional requirements by giving various use cases.

Use case related to System Authorization:

Use case 1: Login

Primary Actor: User

Main scenario: The user wants to access the database of customer. System asks for the customer id. User enters it and database regarding his address, name, subscription, dues etc. is displayed.

Alternate Scenario: The customer id entered doesn't exist and system prompts an error message.

Use case 2: Create Account

Primary Actor: User

Main Scenario: The user enters fresh information regarding name, address, subscription to create a new customer account.

Alternate Scenario: User enters invalid information and system prompts an error message.

Use case related to Printing:

Use case 3: Printing publications

Primary Actor: System

Main Scenario: System prints the publications required by each delivery person with addresses in consecutive order to minimize the commutation of delivery persons.

Use case 4: Printing Bills

Primary Actor: System

Main Scenario: The system prints bills for each customer at the beginning of every month

Use case 5: Printing receipts

Primary Actor: User

Main Scenario: User enter the customer id and the amount of money entered by cash or cheque and system generates a receipts for the customer.

Use case related to Subscription:

Use case 6: Subscription change

Primary Actor: User

Main Scenario: User enters the customer id for which the subscription has to be changed and the subscription is changed after seven days.

Alternate Scenario: The customer id entered doesn't exists and system prompts an error message.

Use case 7: Subscription Temporary Stop

Primary Actor: User

Main Scenario: User enters the customer id, stop date and restart date for which the subscription has to be stopped temporarily in case the customer is not available at his home. The subscription is stopped after seven days or the date mentioned by the customer for the period mentioned by the customer.

Alternate Scenario: The customer id entered doesn't exists or the dates entered are incorrect and system prompts an error message.

Use case 8: Subscription Permanent stop

Primary Actor: User

Main Scenario: User enters the customer id for which the subscription has to be stopped permanently and the subscription is stopped after seven days.

Alternate Scenario: The customer id entered doesn't exists and system prompts an error message.

Use case related to dues:

Use case 9: Outstanding dues

Primary Actor: System

Main Scenario: The system keeps a record of dues of all the customers and generates a polite reminder if dues are for more than one months and stops the subscription if the dues are for more than two months.

Use case related to payment:

Use case 10: Payment of delivery boys

Primary Actor: System

Main Scenario: The system generates exact payment to be made to the delivery boys according to 2.5% of the total publications sold by them. The system prints this at the beginning of every month

DESIGN CONSTRAINTS:

1. Security: The files in which the information regarding subscriptions and dues is present should be secured against malicious deformations.
2. Fault Tolerance: Data should not become corrupted in case of system crash or power failure.

