

## **Software Engineering and Project Management – Assignment - 2**

Perform Problem Analysis with thorough study of the problem: define objectives, scope.  
Analyse deliverables. Identify functional and non-functional requirements

**Group No -5**

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### **Objectives of the software**

1. To provide a software that can reduce the tedious task of billing each and every person manually
2. To design and build a software which can be used by the client for billing purpose.
3. To store data of customers
4. Software should be easy to use and understand.
5. It must be error free.
6. Main goal of the software is to keep data of all customers and generate monthly bills for the client.
7. Reminders should be generated and sent to the customers regarding the newspaper bills.

## Scope of the system

1. It is a standalone system
2. Main goal of the software is to keep data of all customers and generate monthly bills for the client.
3. Understand Agencies and Vendors problem- We understand the multiple Newspaper agencies and vendors problem and that why we need to start new idea's to help those people who provide us the Worldwide and Local.
4. Auto-generation of newspaper Bills- We will be helping client's door-to-door collection and cash payment problems by sending bills on mobile or email and get provide an online bill facility for newspapers and another magazine.
5. Making an easy-to-use software- No need to install any app for each customer instead client will be setting the user's account and all other records with high due security.

## Functional requirements

### 1) Registration Process :

1. Adding Customer: The System enables the owner to include new customer in record.
2. The customer will be recognized from his/her unique contact number.

### 2) Bill Generation of Software Requirement Specification:

1. This System generates the bill by calculating cost of all the newspapers at normal day as well as at weekend (Sunday).
2. Bill will be generated from the software with details such as customer details, newspaper details, date of billing and date of subscription.

### 3) Database of software requirement specification:

#### 1. Mandatory customer info.

Maintain customer profile. Every customer has some specific data like name, address, phone number , newspaper ID ,name of the newspapers etc. can be maintained database.

#### 2. Updating info of the customer.

This System enables owner to update the information of customer as described in mandatory info included. **Emails** should be sent to the customers for every bill.

#### 3. Mandatory Newspaper Information

Information of a newspaper like Newspaper name, price on weekday, price on Sunday, description will be there in the database. Unique ID will also be generated for every newspaper.

#### **4. Updating Info of Newspaper**

System will allow admin to update or edit the information of any particular newspaper from its database.

#### **5. Subscription**

Customers will subscribe to one or many newspapers. All the information will be stored in the database. Admin can also change subscription status as "Active" or "Inactive" at any time. Admin can cancel subscription of any customer at any time.

#### **6. Admin**

There could be one or many admins for the system. There will be a table for admin where username and password for each admin will be stored.

#### **4) Deletion of data:**

Customer record can be deleted if customer no longer wants to receive newspaper from agency. Newspaper and Subscription Records can also be deleted.

## **Non-functional Requirements**

### **1) Security**

1. Login Id: Owner who make use of the system need to hold a Logon ID and password.
2. Modifications: Any modifications like insert, delete, update, etc. for the database can be synchronized quickly and executed only by admin.
3. Administrator rights: The administrator can view as well as alter any information in the Newspaper agency System.

### **2) Performance:**

1. Response Time: The system provides acknowledgment in just one second once the customers information is checked.
2. Capacity: The system needs to support at least 500 people at once.
3. User-Interface: The user interface acknowledges within five seconds.

### **3) Reliability:**

1. Availability: The system is available all the time

### **4) The platform should be portable and compatible.**

## Analysis of Deliverables

You have to break the project down into smaller chunks. They are like sub-results or mini-goals, and officially they are called **project deliverables**.

1. Requirement Specification
2. User interface
3. Backend development
4. Set up a Testing System
5. User training