**REQUIREMENTS**

***Introduction***

Snakes and Ladders Project is a simple console game application designed to demonstrate the practical use of C programming language and its features as wells as to generate an application which can be used to play in some devices like desktops, phones etc. for entertainment purpose to the customer.

**Research**

Customer Billing System is an application designed to generate the bill to the customer which can beused in any departmental store, shops, cafes etc. You can use this application to keep the records suchas name, address, mobile number, paid amount, due amount, payment data etc. of your regularcustomer. Moreover, if you have a new customer, you can add and edit the account at any time.

**Cost And Features And Timeline**

**Cost:**

The Cost for the customer billing system aplication is the intialization of software and system requirements . The running cost needs an working system with an the battery backsups. The average cost of manually processing and sending an invoice is about US$25, which covers labor, paper and ink, and postage costs. Billing software does not require these expenses as invoices are sent electronically via email. This way saves a considerable amount of money.

**Features:**

1. It can hold any number of accounts and account can be added to the program at any time.
2. The programming of simple calculations such as calculation of due amount, balance etc. have been embed in the code of project.
3. The Customer Billing System project in C gives you the facility of searching the account by two ways, either by name of the customer or by the number of customer.
4. The due amount to be paid is shown as negative balance.
5. If you have nothing to do with the program, you can directly exit from the main menu.

**TimeLine:**

Problem Statement ---> Research ---> Plan --->Design --->Implement--->Testing --->Execute---> Out for Market

**Defining our System**

Although graphics has not been used in this project, the application of user defined functions and structures have been effectively used here. The major user defined functions used in this C project are: • void input() • void writefile() • void search() • void output() The function void input() is used to add the new customer account i.e. with the help of this functions the parameters such as name, address, phone number, amount paid etc. are asked and entered. Another function void writefile() has been utilized to create a file on hard disc of computer for storing the information and data of a customer. The function void search() has been used to look for previously stored accounts either by name or by number of the customer. The fourth and the last user defined function used in this Customer Billing System Project in C is void output() which has been defined to show the result as console output. In Customer Billing System, structure has very beautifully used to group the data type in single unit. The date variables (day, month and year) have been grouped in the structures named date where as other variables such as name, number, street, paid amount etc. are grouped under another structure named account. Customer Billing System application is so simple to use. In order to use the application, click at the exe file and then, you will have three options to:

1. To add account
2. To search account
3. To exit As per your need, enter 1, 2,or 3 and follow the instructions provided by the application itself.

**SWOT Analysis**

**STRENGTH** : The manual billing procedure is often tedious and inconvenient. After verifying the transaction, you have to fill out an invoice, register it into your records, extract information, update records, and send the billing statement.With invoicing Applicaion, all that hard work can be done with just a click of a button. The only manual task is to encode the customer and transaction details. Once done, the invoice is generated and sent to the customer. It can even be scheduled to send invoices automatically based on agreed payment terms or billing cycle.

**WEAKNESS** : The biggest disadvantage of online accounting is that you can no longer do without the internet. If you are not connected, you cannot access your accounting. Also, you unfortunately never have a 100% guarantee that data cannot be hacked online. Reputable accounting software vendors adhere to the strictest security rules and have their online security specialists on top to outsmart hackers daily, but there is still a certain risk. And it Requires large database.

**OPPOURTUNITIES** : In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

We also use this application for an online platforms for buying things.

We can add printer in future.

We can give more advance software for Online Billing System including more facilities.

We will host the platform on online servers to make it accessible worldwide.

Database queries Implement the backup mechanism for taking backup of codebase and database.

Implement of the backup mechanism for taking backup of codebase and data base on regular basis on different servers.

**THREATS** : Threats are macro environment factors and developments that can derail business model of Billing Cibs. Threats can emerge from various factors such as - changes in consumer preferences, economic growth, technological innovations, political developments & policy changes, and increase in consumer disposable income .

**4W's and 1'H**

**Who**: This project makes an the benefits for the both customers and time and data base for the vendors.

**What**: The main aim of the project is to reduce mannual calculations using for billing systems.

**When**: This will happen when there is an interations between the from and to.

**Where**: It takes place anywhere wherever we have need for the Billing Options.

**How**: It works in an simple logic what are we used for mannual calculations for customer billing we have to use this using an System applications.

**Detail Requirements**

**High Level Requirements**

| **ID** | **Description** | **Status** |
| --- | --- | --- |
| HLR1 | Login and Sign up | Users need to acces |
| HLR2 | Search filter | filter by prices and product |

**LOW LEVEL REQUIREMENTS**

| **ID** | **Description** | **Status** |
| --- | --- | --- |
| LLR1 | User Inputs | To Check the options they choose |
| LLR2 | Basic operation | To generate bills |
| LLR3 | Multifile Approach | To reduce the code structure |