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School Of Computer Science and Engineering
VIT-AP UNIVERSITY, INAVOLU, AMARAVATI

CSE1005 : SOFTWARE ENGINEERING

Web based Billing Software (WBS)

Team Members

- 1. Gudi Varaprasad - 19BCE7048 (Team Lead)**
- 2. S S V M Harshith Kanigalpula - 19BCE7349**
- 3. Abhipray Adhik Chavan - 19BCN7062**
- 4. Talasila Sri Harsha - 19BCE7490**
- 5. Pramodini Nandigam - 19BCN7037**

Software Requirement Specification (SRS)

for

Web based Billing Software (WBS)

1. Introduction:

1.1 Purpose:

This document is intended to outline the characteristics of WBS so that it can be used as a reference for developers and a software validation document for potential clients.

Billing softwares is an important element of accounting and finance software collections that provide a wide range of services at a low cost or even for free.

1.2 Intended Audience :

Stakeholders - admin, developers, target audience, funders, clients.

Users - Businessmen, Enterprises, Shopkeepers, Vendors, Govt., officers.

1.3 Intended Use :

The software requirements specification serves as the foundation for our whole project. It also establishes the template for all development teams to follow. It's utilized to deliver essential information to a variety of teams, including development, quality assurance, operations, and maintenance.

1.4 Scope:

a. The application is made to keep track of data from a wide range of businesses.

b. Order confirmation invoices to customer's devices.

c. Provides an easy billing pattern solution.

d. Bill/Invoice creation is instantaneous.

e. On a regular basis, generates report summaries for the owners.

f. At times, a user-giveaway feature will be planned with a bill / invoice generation.

1.5 Definitions and Acronyms:

WBS - Web based Billing Software (For Invoice & Bill Management in Business Enterprises)

SRS - Software Requirement Specification

GUI - Graphical User Interface (Web)

Stakeholder - The person who will participate in system

Ex. Admin, developers, target audience, funders, web clients.

1.6 References:

User Interface Style Guides, Contracts, Standards, System requirements Specifications, Use Case documents, or a vision, links to other documents or Web addresses and scope document.

1.7 Overview:

Formerly, most establishments had wider crowds, with consumers having to wait up to an hour simply to collect a bill. The "Web based Billing Software" is a web-based software that automates the billing and management of a network of department stores, with even the simplest of enterprises adjusting to new software and the conventional techniques of generating bills from scratch have fallen by the wayside.

2. Overall Description:

This Web-based Billing Software (WBS) tool allows company owners to set up online bill management, consumers to read bills, and owners to save or download invoices for new businesses. It is developed on a network of department stores around the country.

In addition, the developer is creating an online billing webpage to handle invoices in the system and to assist clients in creating, updating, and calculating bills/invoices without having to manually list them. This software system will rely only on the internet to provide a user-friendly environment for both owners and customers.

2.1 Product Perspective:

This solution is designed for those who don't want to spend time manually maintaining bills/invoices or computing whole bill computations. Businessmen, Enterprises, Shopkeepers, Vendors,

and Government Officers all utilise this.

2.2 Product Functions:

- a. Easiness in maintaining and modification of sold products.
- b. Reports are simple to implement, create, generate within no time.
- c. No or very few paperwork.
- d. Consistent user interface with built-in cost-cutting measures.

2.3 User Needs:

User should be familiar terms like Login, Signup, Generate Bill, Print, Download invoice, Product shorthands, Logout, etc.,

2.4 Principle Actors:

The two Principal Actors are Client (User) and Administrator (StakeHolder).

2.5 General Constraints:

A constant stable internet connection is required for WBS.

2.6 Assumptions and Dependencies:

WBS needs a steady, reliable online connection, and irregular updates might cause difficulties and issues when it comes to purchases and credits.

3. System Features and Requirements:

3.1 Functional Requirements:

This section gives a high-level summary of the system's requirements. The system will be able to implement a variety of functional modules, including:

3.1.0 Description:

The key consideration involved in functional requirements are the needs that the end user expresses as essential features that the software should provide.

3.1.1 Signup / Registration:

If a client wishes to create an invoice or manage, download, or print a bill, he or she must first register. Unregistered users are unable to do the above tasks.

3.1.2 Login:

The user logs in to the online application using a valid user id and password that has been successfully validated in order to manage invoices.

3.1.3 Bill Generation:

Every logged-in user will be able to create and generate invoices, as well as store current bills, print, and download those generated bills.

3.1.4 Product shorthand notations:

Every product has a shorthand representation of the entire product label. These shorthand notations can be found on user invoices, and users can search for them.

3.1.5 Logout:

Users can logout after doing the following required processes, and all session activities will be preserved in the database.

3.2 Non-functional Requirements:

In the insurance to the internet, the following Non-Functional Requirements will be present:

- (i) Secure access to a customer's personal information.
- (ii) Availability 24 hours a day, 7 days a week.
- (iii) Improved component design to improve peak performance.
- (iv) For future expansion, a flexible service-based architecture will be particularly desired.
- (v) System properties and limitations are defined by
Non-Functional Requirements : **Security, Reliability, Maintainability, Portability, Extensibility, Reusability, Compatibility, and Resource Utilization** are some of the additional non-functional requirements.

3.3 Performance Requirements:

Since any number of users can use the system at any time, it is necessary to maintain an acceptable performance at the maximum number of uploads permitted from a single client. Also, connections to the servers will be dependent on the user's qualities, such as his bill calculations, and the servers will be available 24 hours a day, seven days a week.

3.4 Technical Issues:

The client-server architecture will be used in this system. It will necessitate the use of an internet server that can execute PHP applications. The system should support popular browsers such as Internet Explorer, Mozilla Firefox, Chrome, and others.

3.5 External Interface Requirements:

- a. Account creation module (Sign in, Sign up)
- b. Bill Generation module (Create, Read, Update, Save)
- c. Invoice Printing module (Print, Download)
- d. Bill Calculation Module (Math, computation)
- e. Admin module (Managing user modules)
- f. Product Shorthand notation module
- g. Random giveaway generator module
- h. Logout module (Account Delete)

3.6 System Features:

- a. Generating and Managing Invoices in a matter of few seconds.
- b. Maintain all the products with their shorthand notation.
- c. Provides summary reports to owners monthly or weekly & yearly.
- d. Provides a convenient solution to the billing pattern.
- e. Make an easy to use environment for owners and customers.
- f. Secured User Authentication and Validation.
- g. User Giveaway generator.