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HCL Technologies

SAVAS

[**SAVAS Electricity Billing Software.docx**](SAVAS%20Electricity%20Billing%20Software.docx)

**E-Billing Project**

Software Requirements Specification

Version <1.0>

1. **Aryan Ram Singh Rajaputra**
2. **Aryan M**
3. **Anwesh**
4. **Shiny**
5. **Shaik Adil**

Software Requirements Specification

1. **INTRODUCTION**

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, references and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete **S.A.V.A.S. –** Electricity Bill Generation Software. The detailed requirements of the **S.A.V.A.S. –** Electricity Bill Generation Software are provided in this document.

## Purpose

The purpose of the document is to collect and analyze all assorted ideas that have come up to define the system, its requirements with respect to consumers. Also, we shall predict and sort out how we hope this product will be used in order to gain a better understanding of the project, outline concepts that may be developed later, and document ideas that are being considered, but may be discarded as the product develops.

To put it plainly, the reason for this SRS report is to give a nitty gritty outline of our product item, its boundaries and objectives. This archive depicts the undertaking's intended interest group and its UI, equipment and programming prerequisites. It characterizes how our customer, group and crowd see the item and its usefulness. Regardless, it helps any fashioner and engineer to aid programming conveyance lifecycle (SDLC) measures.

## Scope

Primarily, the scope pertains to the E-Billing product features for making **S.A.V.A.S. –** Electricity Bill Generation Software live. It focuses on the company, the stakeholders and applications, which allow for online sales, distribution and marketing of electronics.

This SRS is also aimed at specifying requirements of software to be developed but it can also be applied to assist in the selection of in-house and commercial software products. The standard can be used to create software requirements specifications directly or can be used as a model for defining an organization or project specific standard. It does not identify any specific method, nomenclature or tool for preparing an SRS.

**Description:**

This electricity billing system project is used to generate electricity bill for the electricity consumed by the customer. The customer is able to register on the application by entering username, first name, last name, password, address etc. The customer is able to login into the application by entering username and password. The customer enters all the details in the meter details module. The customer details will be fetched from the login page. The bill details data will be fetched from customer details and meter details module.

**2.1 FUNCTIONAL REQUIREMENTS**

**MODULE 1  
REGISTRATION Requirement-1(R1)**

1.1-User should able to enter First name.

1.2-User should able to enter Last name.

1.3-User should able to enter Username.

1.4-User should able to provide Address.

1.5-User should able to give Pin code of his residing area.

1.6-User should able to enter his contact number.

1.7-User should able to provide his mail id.

1.8-User should able to enter a new password for account.

1.9-User should able to confirm the password.

**MODULE 2**

**LOGIN (Requirement-2)**

R.2.1-User should able to enter Username.

R.2.2-User should able to enter Password.

R.2.3-User should able to submit.

**MODULE 3**

**CUSTOMER DETAILS (Requirement-3)**

R.3.1-System should provide all the details once again in customer’s details page.

R.3.2-User is able to edit his details here.

R.3.3-User should able to submit.

**MODULE 4**

**METER DETAILS (Requirement-4)**

R.4.1-User should able to enter consumer’s meter number.

R.4.2-User should able to enter initial reading.

R.4.3-User should able to enter current reading.

R.4.4-User should able to submit.

**MODULE 5  
BILL DETAILS (Requirement-5)**

R.5.1-User should able to see details of electricity bill.

R.5.2-User should able to see Electricity bill.

R.5.3-User should able to see Total amount.

**MODULE 6**

**FAILED REGISTRATION(Requirement-6)**

R.6.1- User should be able to start from beginning.

R.6.1.1-When the user enters different password and confirm password fields.

R.6.1.2- When the user gives invalid login credentials.

**MODULE 7**

**DATABASE DETAILS (Requirement – 7)**

R.7.1-The data entered by the user during registration will be stored in database.

R.7.2-The stored data will act as reference while logging in.

R.7.3-The stored data will be retrieved from database and will be displayed in the final bill.

**INTERFACE REQUIREMENT**

**LANGUAGE – ENGLISH**

**CODE – JAVA**

**INTERFACE – CONSOLE BASED APPLICATION**

**3. Design Constraints**

**3.1.1 Standard Development Tools**

The system shall be built using a standard console development tool that confirms to either IBM’s CUA standards or Microsoft’s GUI standards.

**3.1.2 Console Based Product**

There are no memory requirements

The computers must be equipped with consoles like command prompt and

Eclipse IDE.

The product must be stored in such a way that allows the client easy access to it.

Response time for loading the product should take no longer than 1 minute.

A general knowledge of basic computer skills is required to use the product.

**3.1.3 Database**

Oracle 11g express database to store and retrieve data entered by User.  
JDBC JAR files should be imported.

**3.2 Performance**

The product shall be console based and has to be run from a console.

The product doesn’t have any load time as it is independent of internet.

The performance shall depend upon hardware components of the client/customer.

## 4 Usability

### **Graphical User Interface**

The system shall provide a uniform look and feel of the console.

### **5 Accessibility**

The system shall provide handicap access.

The system shall provide English language support.

## 6 Reliability & Availability

### **7 Internet Service Provider**

No internet is required as it is a console based application and it is 99.999% availability.

## 8 Performance

The product shall be console based and has to be run from a console.

The product doesn’t have any initial load time as it is not depended on the internet.

The performance shall depend upon hardware components of the client/customer.

## 9 Security

### **Data Transfer**

The system shall use secure sockets in all transactions that include any confidential customer information.

The system shall not leave any cookies on the customer’s computer containing any of the user’s confidential information.