*ABSTRACT*

Beginning with Benjamin Franklin's experiment with a kite, one stormy night in Philadelphia, the principles of electricity gradually evolved. In the mid-1800s, everyone's life changed with the invention of the electric light bulb. Thomas Edison improved the 1st electric bulb in 1879 and was able to produce a reliable, long-lasting source of light. Since then, providing electricity has become the basic means of living. This important facility is thus managed by the government established company A.P.S.E.B (Andhra Pradesh State Electricity Board).Population is increasing and new houses are being constructed, there by leading to new electrical connections. Manually maintaining the records is quite difficult and there comes the usage of computers, invented by “Charles Babbage” which has proved to be a boon in the current world. Starting with the “Analytical Engine”, much advancement has been done to the computer system. Now-a-days, computers are used everywhere. This usage of computers in A.P.S.E.B has reduced the work load, increased efficiency and reliability.

Our project basically deals with developing an application *EBS (Energy Billing System).* The Energy Billing System is an Executive Information System that could be used for entering, calculating and monitoring the Billing details of the Electricity Consumers. It provides environment to maintain the consumer details starting from getting new connection, receiving bill, payments etc., and performance information to the management.

It would be an Intranet and Internet based software solution that would ensure timely availability of status parameters. The ability to view the reports online ensures access to these reports from any machine on the ex-LAN and WAN network.

CHAPTER 1: INTRODUCTION

In today’s world of emerging technology, computers are playing a vital role in every walk of life. The problems due to the traditional system are overcome with the help of tasks being online. Maintenance of the data like insertion, deletion and modification is difficult with manual systems. The basic option of security is itself not provided which is of major concern. Apart from this, storage of the voluminous amounts of data is difficult. Moreover the problems of consistency, reliability, integrity also exists. Since this is a manual system there is always a probability that there is loss of data, resulting in less durability. As these issues are of major concern, we developed an application were in all the above factors are achieved.

To overcome the manual usage of data, A.P.S.E.B. used the concept of single tier architecture which could solve only few problems.

As these issues are of major concern, we developed an application to A.P.S.E.B. were in all the above factors are achieved. Addressing these issues, we develop a web application “EBS” (Electronic Billing System) which provides a service to all the customers and employees of A.P.S.E.B to deal with the transactions online.

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* 1. Scope

This application is basically written as a solution to the drawbacks of existing system. This application can be used as a real world application and by any organization. It’s could be used as a general application with few minor modifications.

* 1. Purpose

The purpose of this application is to develop “EBS” (Electronic Billing System), which is a web application which provides a service to all the customers and employees of A.P.S.E.B to deal with the transactions online.

2.5 System Requirements Specifications

2.5.1 Hardware Requirements

* Operating system : Any operating System
* Processor : PIII MHz or above
* RAM : 256 MB
* Hard Disk : Min 300 MB working space
* Key Board : 101 Standards

2.5.2 Software Requirements

* Languages : JDK1.5, Oracle
* Tools : Tomcat
* Technology : Java