

SHRI MOUNI VIDYAPEETH’S

**INSTITUTE OF CIVIL & RURAL ENGINEERING**

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DIST. -KOLHAPUR

**DEPARTMENT OF :**

Computer Engineering

**PROJECT ON :**

**“Energy Billing SYSTeM”**

**Submitted to** MAHARASHATRA STATE BOARDOFTECHNICAL EDUCATIONIN PARTIAL FULFILLMENT OF REQUIREMENTSFOR

THE AWARD OF

“DEPARTMENT OF COMPUTER ENGINEERING"

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**CERTIFICATE**

This is to certify that the project titled

“energy billing system”

Has been completed by :-

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In this academic year 2015-16 in partial fulfilment of the diploma in the “Computer Engineering” as prescribed by the MAHARASHATRA STATE BOARD OF TECHNICAL EDUCATION.

Guide Head OF Department Principal

(Mr.Mane S.G) (Mr.Altekar S.A.) (Mr.GHEWADE J. S.)

**ACKNOWLEDGEMENT**

We express our deep gratitude to our project guide **Mr.Mane S.G** for his guidance and interest throughout the work Satisfactory completion of this project was possible only because of the encouragement and valuable instruction from his.

We also express our deep gratitude to our principal **Mr.Ghevade.J.S.** and Head of the department **Mr. Altekar S.A.** for project Hardware Requirement and library staff for providing us all facilities and Environment to work sincerely and efficiently.

We are expressing our deep gratitude to all our friends and classmates to give a normal support throughout the project work.

Thank you.

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**CONTENT**

**INTRODUCTION**

In 21st century most of the people are woking in the organisation or management services. It may be the public sector , private sector or any of the personal, government owned institues like small scale industries etc. If we take any example above the need of automization and faster

working experience and best service is expected and needed too...!! So, building a powerful and reliable software product is the altimate boon for people living in the digital century, like us. As it comes with lot of advantges and lesser or negligible inconvenience. It features large amount of database to be handled and managed well and also reduces the total paper work. To enhance the work speed and automization as well the standalone application software for our energy billing system is developed b

**BRIEF IDEA OF PROJECT**

The system is designed to develop very simple, flexible and user-friendly management software that takes care of all requirements relating to total customer information, needables, connection and inventary details of electricity management. Energy billing systemt software keeps complete records of customer,connection,Reading updating of data and other reports.Energy billing system Application has been designed for the purpose of maintaining details of various light connections in areas total budget management , reading management documents, reports, notices of software. It can be used by maneger,staff.

**PURPOSE OF REPORT :**

The purpose of this report is :-

* to explain detailed description of 'Energy Billing System'.
* It will explain the aim of project , the limitations of system, interface of the system what the project will do .
* what kind of future works may be done.

**FEATURES OF PROPOSED SYSTEM**

* Greatest automization, database management and reduced paper work.
* Faster work experience
* Realibility
* Standardization
* User friendly
* Secured and easy Database maintenance
* Multi-login benifit
* Integrity and privacy maintained
* **HARDWARE REQUIREMENT**

For developing project

* RAM 2 GB
* Minimum hard disk space -4GB
* printer

**SOFTWARE REQUIREMENT**

For developing the project

* Microsoft windows 7 or 8.1
* Front end: Java
* Back end: My-sql
* Net-Beans IDE
* XAMPP multi Server Software OR Apachi Tomcat Server

**DATABASE DESIGN**

**SYSTEM OVERVIEW AND DESIGN**

**OBJECTS :**

1.Label – This control displays text on a form that then user cant edit.

2.Button – It represents an action that is carried out when user click the button.

3.Textbox – It displays text that user can edit.

4.Combobox – It is similar to list box controls but it contains a text edit field.

5.Menu Editor – It is used to create menu bars, menus,submenus.

6. File Chooser --It is used to add file.

7. Text Area -It is used to write text.

8. Choice /List -It is used to select item from the list.

9. Image Icon--It is used to add image.

**METHODS :**

1. getText()

2. setText()

3. getKeyChar()

4.consume()

5.getSelectedItem()

6.isSelected()

7.setSelectedItem()

**OUTPUT**

**Login page:**

**GENERATE REPORT**

**CODING**

**User Manual:**

**Introduction to Java**

**Java** is a set of several [computer software](http://en.wikipedia.org/wiki/Computer_software) and specifications developed by [Sun Microsystems](http://en.wikipedia.org/wiki/Sun_Microsystems), later acquired by [Oracle Corporation](http://en.wikipedia.org/wiki/Oracle_Corporation), that provides a system for developing [application software](http://en.wikipedia.org/wiki/Application_software) and deploying it in a [cross-platform](http://en.wikipedia.org/wiki/Cross-platform) computing environment. Java is used in a wide variety of [computing platforms](http://en.wikipedia.org/wiki/Computing_platform) from [embedded devices](http://en.wikipedia.org/wiki/Embedded_device) and [mobile phones](http://en.wikipedia.org/wiki/Mobile_phone) to [enterprise servers](http://en.wikipedia.org/wiki/Enterprise_server) and [supercomputers](http://en.wikipedia.org/wiki/Supercomputer). While less common, [Java applets](http://en.wikipedia.org/wiki/Java_applet) run in secure, [sandboxed](http://en.wikipedia.org/wiki/Sandbox_(computer_security)) environments to provide many features of native applications and can be embedded in [HTML](http://en.wikipedia.org/wiki/HTML) pages.

Writing in the [Java programming language](http://en.wikipedia.org/wiki/Java_(programming_language)) is the primary way to produce code that will be deployed as [byte code](http://en.wikipedia.org/wiki/Java_byte_code) in a [Java Virtual Machine](http://en.wikipedia.org/wiki/Java_Virtual_Machine) (JVM); byte code [compilers](http://en.wikipedia.org/wiki/Compiler) are also available for other languages, including [Ada](http://en.wikipedia.org/wiki/Ada_(programming_language)), [JavaScript](http://en.wikipedia.org/wiki/JavaScript), [Python](http://en.wikipedia.org/wiki/Python_(programming_language)), and [Ruby](http://en.wikipedia.org/wiki/Ruby_(programming_language))

**MYPHPADMIN**

**phpMyAdmin** is a [free and open source](http://en.wikipedia.org/wiki/Free_and_open_source) tool written in [PHP](http://en.wikipedia.org/wiki/PHP) intended to handle the administration of [MySQL](http://en.wikipedia.org/wiki/MySQL) with the use of a [web browser](http://en.wikipedia.org/wiki/Web_browser). It can perform various tasks such as creating, modifying or deleting [databases](http://en.wikipedia.org/wiki/Database), [tables](http://en.wikipedia.org/wiki/Table_(database)), [fields](http://en.wikipedia.org/wiki/Field_(computer_science)) or [rows](http://en.wikipedia.org/wiki/Row_(database)); executing [SQL](http://en.wikipedia.org/wiki/SQL) statements; or managing users and permissions.

**Features:**

Features provided by the program include:

* MySQL database management
* Import data from[SQL](http://en.wikipedia.org/wiki/SQL)
* Export data to various formats: [SQL](http://en.wikipedia.org/wiki/SQL),PDF
* Creating PDF file of report generation.
* Database MySQL server .
* Working with different operating systems.

User manual is one of the important part, which comes into picture at the end of system development.it is very helpful for the user of system which shows all the details of how to run the system and use various thinks in the system.

**Master Page:**

**CONCLUSION:**

In this way we have developed “Energy Billing System Application” .The software will be useful to the Softclone student walefare committee that avoid preparation and paper work of events budget calculations manually and will save time & efforts at a great extent. User of the system is able to prepare financial calculations automatically, manage database with ease and in user friendly manner , can generate and print reports of any kind regarding events.

The system can be enhanced in such a way that it will operate for the overall transaction between organizations & resources as well as any kind of management level activities.