

# Smart Gas Billing System

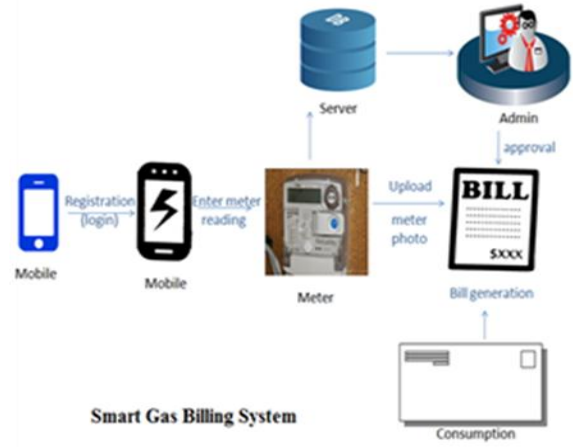
Ms.T.R.Shinde<sup>1</sup>, Monika Ghodake<sup>2</sup>, Sheetal Yerne<sup>3</sup>, Mansi Sakpal<sup>4</sup>, Yogita Gaikwad<sup>5</sup>  
<sup>1,2,3,4,5</sup> Department of Information Technology, Pimpri Chinchwad Polytechnic

**Abstract-** Billing automation systems for public utilities (eg electricity, gas and water) are widely studied and implemented in developed countries worldwide. However in the Asian country, this shop remains at home thanks to domestic shopkeepers, which is not yet applicable to industrial shopkeepers. This paper explores the planning, implementation, and application of automation systems for gas shoppers in the Asian country. For low gas consumption (domestic consumers), a postpaid meter is designed that seeks a postpaid card to provide gas. For equally prime gas consumption (industrial consumers), the meter is wirelessly connected to the regional asking workplace. During this method, the asking workplace is ready to communicate directly with the meter and records its gas consumption reading. Apart from gas, this technology will be extended to live the consumption of electricity and water.

**Index terms-** Billing system, Databases, Gas pipeline, Internet, Meters, Meter reading, Mobile, Servers

## I. INTRODUCTION

Now a day's maximum operation is based on automation, but then we have to stand in long queues for billing where automation is not in the billing system. Based on the automated barcode scanning method, we can reduce the waiting time for billing of products and reduce manpower. In the daytime we try to reduce man's work but still depend on man power for scanning and billing process. In this method we are using Java to control the object. Now Java Code is a prototype tool for scanning barcodes, which perform many operations in our project, this is the heart of our project. Based on a barcode scanner. We control the motor function and more and more we can display the bill details in the computer system. Bill had moved from one place to another; This operation is controlled by the worker. Now scan the barcoded meter and then the details of the meter in the computer system. Finally the gas bill is sent to the billing system, when the user can view the bill online.



In the proposed system, we are developing a system where the person of the gas government will scan the barcode placed on the meter. After scanning it will get a meter number, two options will be a picture. Take a picture The meter reading will take a picture so that in future the consumer can verify it with the reading.

Another option is to include meter readings. Than users can open online links and view online billing information.

Smart gas billing system, which can control billing on the consumer side to avoid bill delays. Smart gas billing system is a concept that shows consumer gas in units daily and in your currency.

- A. If the bill is lost, the users are not obliged to pay more.
- B. It can reduce the problems associated with billing consumers residing in isolated areas.
- C. Smart gas billing system will be more reliable and user friendly.

## II. LITERATURE REVIEW

GBMS provides low cost with global access to user information to handle network power systems Existing system takes a lot of time for gas billing generation system.

#### HARDWARE REQUIREMENT

Hardware	- Pentium IV and Above
RAM	- 1GB
Hard Disk	- 4 GB

#### SOFTWARE REQUIREMENT

Operating System	: Windows and Linux
Technology	: Java and J2EE.
Web Technologies:	HTML, JSP, JavaScript, CSS, Servlet
Web Server	: Apache Tomcat
Database	: MYSQL

#### III. FUTURE SCOPE

Smart gas billing system is a technology that is cost effective and can reduce the problems associated with billing and also reduces the deployment of manpower to take meter readings. There are many advantages both to the suppliers of smart gas billing system as well as to the consumer: -

- No Bill Production
- No Bill Delivery
- No other tasks like disconnect

#### IV. CONCLUSION

- Control billing on consumer side to avoid bill delays.
- Show consumer gas daily and in units in your currency.
- Users are not obliged to pay higher amount if the bill is lost.
- Reduces problems associated with billing consumers residing in isolated areas

#### V. ACKNOWLEDGMENT

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