**ABSTRACT**

Smart meter is an advanced energy meter that measures consumption of electrical energy providing additional information compared to a conventional energy meter. The main goal of this system is to reduce manual checking of electricity consumption by using the current technology. In the proposed system the user can monitor the power consumed each day, each week and each month. Intimation is also sent to the user when voltage goes low in the form of SMS to the registered mobile number so that the household appliances can be prevented from consuming more power. When the voltage is low the user can select two devices in the application which has to be switched off. This message is then transmitted to the IoT board via GSM and the device is automatically switched off. Online payment can also be made through internet banking.

**TABLE OF CONTENTS**

|  |  |  |
| --- | --- | --- |
| **CHAPTER NO** | **TITLE** | **PAGE NO** |
|  | **ABSTRACT** |  |
|  | **LIST OF FIGURES** |  |
|  | **LIST OF ABBREVIATIONS** |  |
| 1 | **INTRODUCTION** | **1** |
|  | 1.1. OVERVIEW OF THE PROJECT | 1 |
|  | 1.2 EXISTING YSTEM | 1 |
|  | 1.3 NEED FOR PROPOSED SYSTEM | 2 |
|  | 1.4 DESCRIPTION OF THE PROJECT | 2 |
| 2 | **LITERATURE SURVEY** | **4** |
|  | **2.1 INTRODUCTION** | **4** |
|  | 2.1.1 PURPOSE OF LITERATURE SURVEY | 4 |
|  | **2.2 RELATED WORK** | **4** |
|  | 2.2.1 REAL TIME ENERGY MEASUREMENT USING  SMART METER | 4 |
|  | 2.2.2 SMART ELECTRICITY METER DATA  INTELLIGENCE FOR FUTURE ENERGY  SYSTEMS:A SURVEY | 5 |
|  | 2.2.3 SMART METERING PLATFORM AS A  SOLUTION FOR DATA ANALYSIS | 6 |
|  | 2.2.4 SMART METER PRIVACY WITH RENEWABLE  ENERGY AND AN ENERGY STORAGE  DEVICE | 6 |
|  | 2.2.5 DATA ANALYSIS OF THE SMART METERS  AND ITS APPLICATIONS IN TATUNG  UNIVERSITY | 7 |
|  | 2.2.6 SMART ELECTRICITY METER DATA  ANALYTICS: A BRIEF REVIEW | 8 |
|  | **2.3 FEASIBILITY STUDY** | **8** |
|  | 2.3.1 TECHNICAL FEASIBILITY | 9 |
|  | 2.3.2 ECONOMIC FEASIBILITY | 9 |
|  | 2.3.3 LEGAL FEASIBILITY | 9 |
|  | 2.3.4 OPERATIONAL FEASIBILITY | 10 |
| 3 | **SYSTEM DESIGN** | **11** |
|  | 3.1 PROPOSED SYSTEM ARCHITECTURE DESIGN | 11 |
|  | 3.2 DATA FLOW DIAGRAM FOR PROPOSED SYSTEM | 12 |
|  | 3.2.1 REGISTRATION AND LOGIN | 12 |
|  | 3.2.2 DAILY METER READINGS | 13 |
|  | 3.2.3 VOLTAGE FLUCTUATION | 14 |
|  | 3.2.4 ONLINE PAYMENT | 15 |
|  | 3.3 UML DIAGRAMS | 16 |
|  | 3.3.1 USE CASE DIAGRAM | 16 |
|  | 3.3.2 CLASS DIAGRAM | 17 |
|  | 3.3.3 SEQUENCE DIAGRAM | 18 |
| 4 | **REQUIREMENT SPECIFICATION** | **19** |
|  | 4.1 HARDWARE REQUIREMENTS | 19 |
|  | 4.1.1 PIC ASSEMBLED PCB+UART+LCD | 19 |
|  | 4.1.2 SIMCOM GSM/GPRS MODEM | 20 |
|  | 4.1.3 AC CURRENT SENSOR | 22 |
|  | 4.1.4 AC VOLTAGE SENSOR | 24 |
|  | 4.1.5 ADAPTER | 25 |
|  | 4.1.6 FOUR RELAY BOARD | 27 |
|  | 4.1.7 TRANSFORMER (0-12V/1A) | 28 |
|  | 4.1.8 PIC16F877A | 30 |
|  | 4.2 SOFTWARE REQUIREMENTS | 32 |
| 5 | **IMPLEMENTATION** | **35** |
|  | 5.1 SAMPLE CODE | 35 |
|  | 5.2 SAMPLE SCREEN SHOTS | 51 |
| 6 | **CONCLUSION AND FUTURE ENHANCEMENTS** | **57** |
|  | **REFERENCES** | **58** |

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| **FIGURE NO** | **TITLE** | **PAGE NO** |
| 3.1 | Block diagram of proposed system | 11 |
| 3.2 | Schematic diagram of registration and login module | 12 |
| 3.3 | Block diagram for daily unit consumption | 13 |
| 3.4 | Block diagram for voltage level detection | 14 |
| 3.5 | Block diagram for voltage level detection | 15 |
| 3.6 | Schematic diagram of payment module | 15 |
| 3.7 | Use case diagram | 16 |
| 3.8 | Class diagram | 17 |
| 3.9 | Sequence diagram | 18 |
| 4.1 | PIC assembled PCB | 20 |
| 4.2 | GSM Modem | 21 |
| 4.3 | AC Current Sensor | 23 |
| 4.4 | AC Voltage Sensor | 24 |
| 4.5 | Adapter | 26 |
| 4.6 | Four Relay Board | 28 |
| 4.7 | Transformer | 29 |
| 4.8 | PIC16F877A | 31 |
| 5.1 | Registration page | 51 |
| 5.2 | Login page | 52 |
| 5.3 | Daily Readings | 53 |
| 5.4 | App and kit when all the inputs are switched on | 54 |
| 5.5 | App and kit when two devices is switched off due to low voltage | 54 |
| 5.6 | SMS received by the user | 55 |
| 5.7 | Payment page | 56 |

**LIST OF ABBREVIATIONS**

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| **ABBREVIATION** | **EXPANSION** |
| GSM | Global System for Mobile Communication |
| PIC | Peripheral Interface Controller |
| SM | Smart Meter |
| AC | Alternate Current |
| IoT | Internet of Things |
| SMS | Short Message Service |
| EB | Electricity Board |