**ABSTRACT**

Integrated Billing and Automated Payment System (IBAPS) is a web based application where all the utility bills like Electricity Bill, Telephone Bill, Insurance Premium, etc are merged into a single window and payment is done automatically from the bank account linked with it. The Online Bill Payment (OBP) facility reduced the greater workload of human by eliminating queues and saved greater time in queues. With IBAPS, the process is further simplified making the entire bill payment a One Step Process. Automation in payment of bills, ability to pay bills prior to the due date, pre and post notification of bills, User-Flexibility, biller’s flexibility, Advance Credit System(ACS) and many such features makes IBAPS stand at heights from its existing systems. With many technical advancement happening every day, IBAPS would be one such application to perform billing on a go. IBAPS is mainly targeted towards the business domain which involves the Credit Bill Sales System (CBSS), where automation of such credit bills are most awaited start-ups.

**TABLE OF CONTENTS**

**CHAPTER NO. TITLE PAGE NO.**

**ABSTRACT i**

**LIST OF TABLES v**

**LIST OF FIGURES vi**

**LIST OF ABBREVIATIONS vii**

**1 INTRODUCTION 1**

1.1 AIM 1

1.2 PROBLEM STATEMENT 1

1.3 DESCRIPTION 2

1.4 BENEFITS 4

1.5 OTHER APPLICATIONS 4

**2 LITERATURE SURVEY 5**

2.1 EXISTING SYSTEM 5

2.1.1 Online Bill Payment 5

2.1.2 Scheduled Payment 6

2.2 PROPOSED SYSTEM 7

2.2.1 Easypay 7

**3** **SYSTEM ANALYSIS 9**

3.1 FEASIBILITY STUDY 9

**CHAPTER NO. TITLE PAGE NO.**

3.2 HARDWARE USED 11

3.3 SOFTWARE USED 11

**4 DETAILED DESIGN 12**

4.1 SYSTEM ARCHITECTURE 12

4.1.1 MODULES 13

4.2 FLOW DIAGRAM 14

4.3 UML DIAGRAMS 15

4.3.1 Use Case Diagram 15

4.3.2 Sequence Diagram 16

4.3.3 Activity Diagram 17

4.3.4 Collaboration Diagram 18

4.3.5 Class Diagram 19

**5 IMPLEMENTATION AND TESTING 20** 5.1 IMPLEMENTATION 20 5.2 TESTING 22 5.2.1 UNIT TESTING 23 5.2.2 INTEGRATION TESTING 25 5.2.3 FUNCTIONAL TESTING 25 5.2.4 ACCEPTANCE TESTING 26 5.3 TEST PLAN 26 5.4 TEST ANALYSIS 26

5.5 RESULT 27

**CHAPTER NO. TITLE PAGE NO.**

**6 CONCLUSION AND FUTURE**

**ENHANCEMENT 28**

6.1 CONCLUSION 28

6.2 FUTURE ENHANCEMENT 28

**APPENDIX-A 29**

SAMPLE SOURCE CODE 29

**APPENDIX-B 42**

SCREEN SHOTS 42

**REFERENCES 50**

**LIST OF TABLES**

**CHAPTER NO. TITLE PAGE NO.**

5.1 USER LOGIN 23

5.2 CHANGE PASSWORD 23

5.3 GRAPHICAL INTERFACE 24

5.4 NAVIGATION MANAGEMENT 24

**CHAPTER NO. TITLE PAGE NO.**

5.5 INTEGRATION TESTING 25

5.6 FUNCTIONAL TESTING 25

5.7 ACCEPTANCE RESTING 26

**LIST OF FIGURES**

**FIGURE CAPTION PAGE NO.**

**NO.**

3.1 FEASIBILITY ANALYSIS 10

4.1 SYSTEM ARCHITECTURE 12

4.2 FLOW DIAGRAM 14

4.3 USE CASE DIAGRAM 15

4.4 SEQUENCE DIAGRAM 16

4.5 ACTIVITY DIAGRAM 17

4.6 COLLABORATION DIAGRAM 18

4.7 CLASS DIAGRAM 19

5.1 PROCESS OF TESTING 22

b.1 LOGIN PAGE 42

b.2 USERHOME PAGE 43

b.3 ADDING SERVICES 44

b.4 INSTANT PAYMENT 45

b.5 ADDING CASH TO WALLET 46

b.6 ONLINE PAYMENT 47

**LIST OF ABBREVIATIONS**

IBAPS - INTEGRATED BILLING AND AUTOMATED PAYMENT SYSTEM

OBP - ONLINE BILL PAYMENT

ACS - ADVANCE CREDIT SYATEM

CBSS - CREDIT BILL SALES SYSTEM

OS - OPERATING SYSTEM

SQL - STRUCTURED QUERY LANGUAGE

UML - UNIFIED MODELLING LANGUAGE