# TABLE OF CONTENTS


| S.NO | CONTENTS | PAGE NO |
|---|---|---|
| 1. | **INTRODUCTION** | 01 |
| 2. | **SYSTEM ANALYSIS** | 02 |
| | 2.1 EXISTING SYSTEM | 02 |
| | 2.2 PROPOSED SYSTEM | 03 |
| 3. | **SOFTWARE AND HARDWARE SPECIFICATIONS** | 05 |
| | 3.1 SOFTWARE REQUIREMENTS | 05 |
| | 3.2 HARDWARE REQUIREMENTS | 06 |
| 4. | **FEASIBILITY STUDY** | 07 |
| | 4.1 ECONIMIC FEASIBILITY | 07 |
| | 4.2 TECHNICAL FEASIBILITY | 07 |
| | 4.3 SOCIAL FEASIBILITY | 08 |
| 5. | **SYSTEM DESIGN** | 09 |
| | 5.1 DATA FLOW DIAGRAMS | 09 |
| | 5.1.1 DATA FLOW DIAGRAM FOR ADMIN MODULE | 09 |
| | 5.1.2 DATA FLOW DIAGRAM FOR HOD MODULE | 10 |
| | 5.1.3 DATA FLOW DIAGRAM FOR FACULTY MODULE | 11 |
| | 5.1.4 DATA FLOW DIAGRAM FOR STUDENT MODULE | 12 |
| | 5.2 UML DIAGRAMS | 12 |
| | 5.2.1 CLASS DIAGRAM | 13 |
| | 5.2.2 USE CASE DIAGRAM | 14 |
| | 5.2.2.1 USE CASE DIAGRAM FOR HOD MODULE | 15 |
| | 5.2.2.2 USE CASE DIAGRAM FOR FACULTY MODULE | 16 |
| | 5.2.2.3 USE CASE DIAGRAM FOR ADMIN MODULE | 17 |
| | 5.2.2.4 USE CASE DIAGRAM FOR STUDENT MODULE | 18 |
| | 5.2.3 SEQUENCE DIAGRAM | 18 |

**6. MODULES** 20

6.1 USER MODULE 20

6.1.1 HOME PAGE 20

6.1.2 NEW ACCOUNT PAGE 21

6.1.2.1 NEW ACCOUNT PAGE FOR HOD 21

6.1.2.2 NEW ACCOUNT PAGE FOR FACULTY 23

6.1.3 LOGIN PAGE 24

6.1.3.1 LOGIN PAGE FOR HOD 24

6.1.3.2 LOGIN PAGE FOR FACULTY 25

6.1.3.3 LOGIN PAGE FOR STUDENT 27

6.2 ADMIN MODULE 28

**7. LANGUAGE SPECIFICATION** 29

7.1 INTRODUCTION TO HTML 29

7.2 SECURITY ISSUES IN HTML 30

7.3 HTML CONTROL FLOW 31

7.4 INTRODUCTION TO CSS 31

7.5 INTRODUCTION TO NODE.JS 32

7.6 SECURITY ISSUES IN NODE.JS 33

7.7 DATABASE INTEGRATION IN NODE.JS APPLICATIONS 35

7.8 NODE.JS CONTROL FLOW 37

7.9 INTRODUCTION TO SQL 38

7.10 INTRODUCTION TO JAVASCRIPT 40

**8. SAMPLE CODE** 41

8.1 SAMPLE HTML CODE FOR LOGIN PAGE 41

8.2 SAMPLE JS CODE FOR LOGIN PAGE 43

**9. RESULTS** 44

9.1 HOME PAGE 44

9.2 NEW ACCOUNT PAGE 45

9.2.1 NEW ACCOUNT PAGE FOR HOD 46

9.2.2 NEW ACCOUNT PAGE FOR FACULTY 47

9.3 LOGIN PAGE 48

9.3.1 LOGIN PAGE FOR HOD 49

9.3.1.1 ADD BRANCHES AND SUBJECTS PAGE FOR HOD 50
9.3.1.2 VIEW FACULTY REQUESTS PAGE FOR HOD 51
9.3.1.3 ENTER STUDENT DETAILS PAGE FOR HOD 52
9.3.1.4 ADD AND CHANGE EXAMS PAGE FOR HOD 53
9.3.1.5 GENERATE STUDENTS REPORT PAGE FOR HOD 54
9.3.1.6 VIEW MARKS UPDATE REQUESTS PAGE FOR HOD 55
9.3.2 LOGIN PAGE FOR FACULTY 56
9.3.2.1 ENTER MARKS PAGE FOR FACULTY 58
9.3.2.2 VIEW MARKS PAGE FOR FACULTY 59
9.3.2.3 VIEW OVERALL MARKS PAGE FOR FACULTY 60
9.3.2.4 EDIT MARKS PAGE FOR FACULTY 61
9.3.3 LOGIN PAGE FOR STUDENT 62
9.3.4 LOGIN PAGE FOR ADMIN 63
**10. CONCLUSION** 64
**11. FUTURE SCOPE** 65
**12. BIBILOGRAPHY** 66

# LIST OF FIGURES


| S.NO | NAME | PAGE NO |
|---|---|---|
| **1** | Fig 1: Data flow diagram for Admin module | 9 |
| **2** | Fig 2: Data flow diagram for HOD module | 10 |
| **3** | Fig 3: Data flow diagram for Faculty module | 11 |
| **4** | Fig 4: Data flow diagram for Student module | 12 |
| **5** | Fig 5: Class diagram for Student Information Management System | 13 |
| **6** | Fig 6: Use Case diagram for Student Information Management System | 14 |
| **7** | Fig 7: Use Case diagram for HOD module | 15 |
| **8** | Fig 8: Use Case diagram for Faculty module | 16 |
| **9** | Fig 9: Use Case diagram for Admin module | 17 |
| **10** | Fig 10: Use Case diagram for Student module | 18 |
| **11** | Fig 11: Sequence diagram for Student Information Management System | 19 |
| **12** | Fig 12: Home page | 20 |
| **13** | Fig 13: New Account Page | 21 |
| **14** | Fig 13 A: New Account Page For HOD | 21 |
| **15** | Fig 13 B: New Account Page For HOD | 22 |
| **16** | Fig 14 A: New Account Page for Faculty | 23 |
| **17** | Fig 14 B: New Account Page for Faculty | 23 |

| | | |
|---|---|---|
| **18** | Fig 15: Login Page | 24 |
| **19** | Fig 16: Login Page for HOD | 24 |
| **20** | Fig 17: Dashboard of HOD | 25 |
| **21** | Fig 18: Login Page for Teacher | 25 |
| **22** | Fig 19: Subject Request Page for Faculty | 26 |
| **23** | Fig 20: Faculty Home Page | 26 |
| **24** | Fig 21: Login Page for Student | 27 |
| **25** | Fig 22: Dashboard of Student | 27 |
| **26** | Fig 23: Login Page for Admin | 28 |
| **27** | Fig 24: Dashboard Page for Admin | 28 |
| **28** | Fig 25: Home page | 44 |
| **29** | Fig 26: New Account | 45 |
| **30** | Fig 27 A: New Account Page for HOD | 46 |
| **31** | Fig 27 B: New Account Page for HOD | 46 |
| **32** | Fig 28 A: New Account Page for Faculty | 47 |
| **33** | Fig 28 B: New Account Page for Faculty | 47 |
| **34** | Fig 29: Login Page | 48 |
| **35** | Fig 30: Login Page for HOD | 49 |
| **36** | Fig 31: Dashboard Page for HOD | 49 |
| **37** | Fig 32: Add Branches and Subjects Page for HOD | 50 |
| **38** | Fig 33: View Faculty Requests Page for HOD | 51 |

| | | |
|---|---|---|
| **39** | Fig 34: Enter Student Details Page for HOD | 52 |
| **40** | Fig 35: Add and Change Exams Page for HOD | 53 |
| **41** | Fig 36: Generate Students Report Page for HOD | 54 |
| **42** | Fig 37: Generate Students Report Page for HOD | 55 |
| **43** | Fig 38: Login Page for Faculty | 56 |
| **44** | Fig 39: Subject Allocation Request Page for Faculty | 56 |
| **45** | Fig 40: Home Page for Faculty | 57 |
| **46** | Fig 41: Enter Marks Page for Faculty | 58 |
| **47** | Fig 42: View Marks Page for Faculty | 59 |
| **48** | Fig 43 A: View Overall Marks Page for Faculty | 60 |
| **49** | Fig 43 B: View Overall Marks Page for Faculty | 60 |
| **50** | Fig 44: Edit Marks Page for Faculty | 61 |
| **51** | Fig 45: Login Page for Student | 62 |
| **52** | Fig 46: View Marks Page for Student | 62 |
| **53** | Fig 47: Login Page for Admin | 63 |
| **54** | Fig 48: Home Page for Admin | 63 |