**“ENGINEERING NOTES”**

***A Minor Project Report submitted to the***

**RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL**

***in partial fulfillment of the requirements for the award of the degree of***

**BACHELOR OF ENGINEERING**

**IN**

**INFORMATION TECHNOLOGY**

***Submitted by***

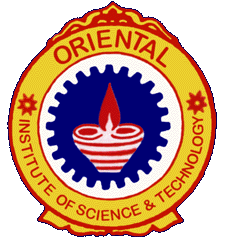
**Ayush Namdeo (0105IT161028)**

**Javia Jaimin (0105IT161044)**

**Pavan Jain (0105IT161064)**

***Under the Guidance of***

**Prof. Swati Pandey**



**DEPARTMENT OF INFORMATION TECHNOLOGY**

**ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY**

**BHOPAL (M.P.)-462021, INDIA**

**2018-19**

|  |  |
| --- | --- |
|  | Phone: 0755 – 2759026, 2529057,  2529258, 2529159  Fax: 0755 - 2529472  E-mail: [oistbpl@oriental.ac.in](mailto:oistbpl@oriental.ac.in)  website: [www.oriental.ac.in](http://www.oriental.ac.in) |

**ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY**

Approved by AICTE, New Delhi & Govt. of M.P. Affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal

Oriental Campus, Thakral Nagar, Raisen Road, Bhopal-462 021 (M.P.) INDIA

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**BONAFIDE CERTIFICATE**

Certified that this project report **“ENGINEERING NOTES”** is a bonafide work of “**Ayush Namdeo , Pavan Jain , Javia Jaimin”** who carried out the project work under my supervision.

Date: \_\_\_\_\_\_\_\_\_

Place: Bhopal

**Prof. Swati Pandey Prof. Pratik Buchke**

**SUPERVISOR** **HEAD OF THE DEPARTMENT**

Information Technology

Oriental Institute of Science & Technology

Oriental campus, Raisen road, Bhopal-462021

**ACKNOWLEDGEMENT**

We wish to express our profound gratitude to **Prof. Swati Pandey, Department of Information Technology, Oriental Institute of Science and Technology Bhopal** for her invaluable guidance, sustained help and inspiration in carrying out the work.

We sincerely thank **Prof. Pratik Buchke, Head of** **Information Technology** Department, **OIST Bhopal** for his co-operation and guidance during the project work.

We wish to express our deep gratitude to **Dr. K.G. Sudhakar, Director, OIST Bhopal** for his kind permission to carry out the work at OIST Bhopal .

Finally we would like to thank all the faculty members and other persons who directly or indirectly helped us in carrying out this project work.

**Ayush Namdeo (0105IT161028)**

**Javia Jaimin (0105IT161044)**

**Pavan Jain (0105IT161064)**

**ABSTRACT**

ENGINEERING NOTES is a project which aims in developing a computerized system to maintain all the Notes .This project has many features which are generally not available in normal Online Notes systems like facility of user subscribe and a facility of admin login through which the admin can monitor the whole system .It also has facility of an online notice board where teachers can student can put up information about Updated Notes being held in our colleges or nearby colleges and after proper verification from the concerned institution. It has also a facility where student can see list of Branches and its related Notes and download and view Notes , also the students can request the admin to add new books by gmail request form. The librarian after logging into his account i.e. admin account can generate various reports such as notes report , updated branch report, Subject report, scheme report and syllabus report.

Overall this project of ours is being developed to help the students as well as staff of Collage to maintain the Notes in the best way possible and also reduce the human efforts.

TABLE OF CONTENTS

|  |  |
| --- | --- |
| **Bonafide Certificate……………………………………………………………………………** | **II** |
| **Acknowledgements …………………………………………………………………………….** | **III** |
| **Abstract ………………………………………………………………………………………..** | **IV** |
| **List of Figures …………………………………………………………………………………** | **VII** |
| **List of Tables …………………………………………………………………………..............** | **VIII** |
| **List of Abbreviations…………………………………………………………………………..** | **IX** |

|  |  |  |
| --- | --- | --- |
| **1.** | **introduction………………………………………………………………….** | **1** |
| 1.1 | Objective……………………………………………………………………………….... | 2 |
| 1.2 | Scope……………………………………………………………………………….......... | 3 |
| 1.3 | Problem identification ………………………………………………………………….. | 4 |
| 1.4 | Methodology……………………………………………………………………………. | 5 |
| **2.** | **BACKGROUND AND LITERATURE SURVEY…………………........** | **6** |
| 2.1 | Existing system…………………………………………………………………………... | 7 |
| 2.2 | Requirement Specifications……………………………………………………………… | 7 |
| 2.3 | Feasibility Study……………………………………………………………………….... | 8 |
| 2.4 | Innovativeness and Usefulness………………………………………………………….. | 8 |
| 2.5 | Modification and improvement over the existing implementation………………............ | 8 |
| **3.** | **PROCESS MODEL……………………………………………………….** | **10** |
| 3.1 | Software Process Model Used…………………………………………………………… | 11 |
| 3.2 | Proposed Project Model…………………………………………………………………. | 11 |
| 3.3 | Market Potential and Competitive Advantage ………………………………………….. | 11 |
| 3.4 | Project Estimation……………………………………………………………………….. | 12 |
| 3.5 | Project Schedule………………………………………………………………………… | 13 |
| **4.** | **DESIGN…………………………………………………………………….** | **14** |
| 4.1 | Data Flow Diagram…………………………………………..…………………………. | 15 |
| 4.2 | Entity Relationship Diagram……………………………………………………………. | 16 |
| 4.3 | Flow Chart ……………………………………………………………………………… | 17 |
| 4.4 | USE-CASE diagrams…………………………………………………………………… | 18 |
| 4.5 | Sequence Diagram……………………………………………………………………… | 19 |
| 4.6 | Activity Diagram……………………………………………………………………….. | 20 |
| 4.7 | Class Diagram………………………………………………………………………….. | 20 |
| 4.8 | Algorithm………………………………………………………………………………... | 21 |
| **5.** | **TECHNOLOGY AND TOOLS USED…………………………………** | **22** |
| 5.1 | Front-end Tools …………………..................................................................................... | 23 |
| 5.2 | Back-end Tools ……………………………………………………………………… | 24 |
| 5.3 | Operating System …………………….……………………………………………… | 26 |
| 5.4 | Additional Software requirements (Web browser, utility tools etc.)……………………. | 26 |
| **6.** | **HARDWARE REQUIREMENT…………………………………………** | **27** |
| 6.1 | System Configuration (CPU, RAM, HDD, Network used)……………………… | 28 |
| **7.** | **CODING………………………………………………………………….** | **29** |
| **8.** | **TESTING …..…………………………………………………………….** | **34** |
| 8.1 | Testing Method Used …………………………………………………………………… | 35 |
| 8.2 | Test case with results ……………………………………………………………………. | 35 |
| 8.3 | Results analysis …………………………………………………………………………. | 36 |
| **9.** | **SCREEN LAYOUTS……………………………………………………...** | **37** |
| **10.** | **FUTURE ENHANCEMENT……………………………………………..** | **41** |
| **11.** | **APPENDICES …………………………………………………………….** | **43** |
| **12.** | **REFERENCES…………………………………………………………….** | **45** |

# 

**LIST OF FIGURES**

|  |  |  |
| --- | --- | --- |
| **Figure No.** | **Title** | **Page No.** |
| 4.1 | Data Flow Diagram | 15 |
| 4.2 | ER Diagram | 17 |
| 4.3 | Use Case Diagram | 18 |
| 5.1 | MVC Pattern | 25 |
| 5.2 | MVC vs MTV | 25 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**LIST OF TABLES**

|  |  |  |
| --- | --- | --- |
| **Table No.** | **Title** | **Page No.** |
| 1.1 | User Model | 17 |
| 1.2 | Content Model | 17 |
| 1.3 | Subscriber Model | 17 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**LIST OF ABBREVIATIONS**

|  |  |
| --- | --- |
| **ABBREVIATION** | **DESCRIPTION** |
| CSRF | Cross Site Request Forgery |
| RE | Regular Expression |
| OS | Operating System |
| URL | Uniform Resource Locator |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |