**Outpatient Management System**

***Project Code: PRJ 151***

A First Year Project

For the partial fulfillment of requirement for the degree of

Bachelor of Computer Application (BCA)

**Submitted By**

Sakar Aryal

**Reg. No:** 2019-1-53-0090 **Symbol No:** 20530145

Himal Aryal

**Reg. No:** 2019-1-53-0072 **Symbol No:** 20530129

Sandhya Khadka

**Reg. No:** 2019-1-53-0093 **Symbol No:** 20530148

Pawan Chaudhary

**Reg. No:** 2019-1-53-0081 **Symbol No:** 20530138

**Submitted To**

Pokhara University

Faculty of Science and Technology,

Crimson College of Technology

Butwal-11, Devinagar

2020

**CERTIFICATE FROM THE EXTERNAL EXAMINER**

This is certified that the bonafide students, **“Sakar Aryal, Himal Aryal, Sandhya Khadka and Pawan Chaudhary”** from **Crimson College of Technology** have successfully completed, presented and demonstrated the project on “***Outpatient Management System***” in the partial fulfillment of the requirement of the degree of Bachelor of Computer Application (BCA) for the year 2020.

During the presentation, I’ve found that the students are bonafide on their work. They are enthusiastic, hardworking and ready to face any skillful work related to IT and Computer Application.

**………………………………..**

External Examiner

**BONAFIDE CERTIFICATE**



This is to certify that the project entitled “**Outpatient Management System**” has been carried out by the team member “**Sakar Aryal, Himal Aryal, Pawan Chaudhary and Sandhya Khadka**” under our guidance in partial fulfillment of the degree of Bachelor of Computer Application of Pokhara University, Nepal during the academic year 2020 (Semester II).

…………………………… ……………………………

Mr. Nabraj Koirala Mr. Abdul Hak

Supervisor, Coordinator,

Department of IT, Department of IT,

Crimson College of Technology Crimson College of Technology

**DECLARATION**

We hereby declare that, the project entitled **“Outpatient Management System”** is an outcome of our own efforts under the guidance of **Mr. Nabraj Koirala.** The project is submitted to **Pokhara University** for the partial fulfillment of the ***Bachelor of Computer Application (BCA) Second Semester Examination 2020.***

Any kinds of reproduction of this report and its parts for commercial use is strictly prohibited without the prior written permission of the author and the university. However, this report (excluding source code) is free to use for academic purpose.

**Team Members**

……………………………

…………………………. Mr. Nabraj Koirala

Sakar Aryal Supervisor,

Department of IT,

…………………………. Crimson College of Technology

Himal Aryal

………………………….

Sandhya Khadka

………………………….

Pawan Chaudhary

**ACKNOWLEDGEMENT**

We would like to express our gratitude and appreciation to all those who gave us the possibility to complete this project report. Special thanks are due to Mr. Nabraj Koirala, Supervisor of IT Department, Crimson College of Technology, whose stimulating suggestions and encouragement helped us in all time and in writing this report. We also sincerely thanks for the time spend proofreading and correcting out many mistakes.

Moreover, we would also like to acknowledge with must appreciation the crucial role of the staff of Library Management who gave us the valuable resources which were the most for undertaking our project work. Last, but not the least we are thankful to our friends for their direct and indirect help, co-operation and encouragement.

**Project Team Members**

Sakar Aryal

Himal Aryal

Sandhya Khadka

Pawan Chaudhary

**PREFACE**

With the change in the time and new discoveries in computer science, human life is no more a static existence. Computer’s invention is the greatest invention of mankind which made out life easier, comfortable and reliable.

We developed this system in DEV C++ in C Programming Language in Windows environment.

We tried to develop the software for the Outpatient Management System, which will provide the easy way to keep the record of Outpatient.

The system has been developed as a collection of several independent modules and any number of modules can be added later without affecting the existing modules.

We all members have tried our best to make this project errorless and if any errors found related to the project will be resolved heartily by us.

**TABLE OF CONTENTS**

**Contents Page No**

Abstract I

List of Figures II

List of Tables II

List of Charts II

**Unit 1: Introduction of The Project 1-3**

* 1. Introduction 2
  2. Objectives 2
  3. Applications 3
  4. Features 3
  5. Limitations 3

**Unit 2: Project Development Life Cycle 4-7**

2.1 Project Planning and Feasibility 5

2.2 Requirement Analysis 5

2.3 System Design 5

2.4 Methodology 5-6

2.5 Coding 6

2.6 Debugging and Testing 6-7

2.7 Implementing 7

2.8 Documentation 7

2.9 Project Development Tools 7

**Unit 3: Time, Cost and Task Division 8-9**

3.1 Time and Cost 9

3.2 Task Division 9

**Unit 4: Appendixes 10-44**

4.1 Gantt Chart 11

4.2 Algorithm 12-15

4.3 Flowchart 16-28

4.4 Coding 29-44

**Unit 5: User Manual with Snapshots 45-51**

5.1 Minimum Hardware Requirements 46

5.2 Minimum Software Requirements 46

5.3 Installation and Launch 46

5.4 User Manual 46-51

5.4.1 Main Menu 47

5.4.2 Register/Login Interface 47

5.4.3 Forget Password 48

5.4.4 Credit 48

5.4.5 Add Patient 49

5.4.6 View Patient 50

5.4.7 Search Patient 50

5.4.8 Delete Patient 51

5.4.9 Update Admin’s Record 50

5.5.0 Logout 51

**Unit 6: Conclusion 52**

**Unit 7: Bibliography 53**

**Abstract**

The proposal entitled “**Outpatient Management System**” is prepared as partial requirement for the completion of one credit hour course of Bachelor of Computer Application as the second semester project.

The use of computer has made the world smaller. It is quite impossible to think of any information system without the implementation of the computer technology. Computer technology has affected the entire field such as business field, scientific field, management field etc. Users like to access for different information of the Hospital and its patient.

The project mainly emphasizes on providing the information related to Outpatient Department. This helps administrative users to keep record of Outpatient. This project is made up of login-based system which provides secure, user friendly and clean multiple options for the administrator.

From the technical point of view, the C programming is used and the project can run even in Windows 98 and will low processor computer. For designing the system, we’ve used Window 10 OS with Intel Core i5 5th Gen processor with 8GB RAM and 500GB SSD.

I

**List of Figures**

|  |  |  |
| --- | --- | --- |
| **Fig No** | **Description** | **Page No** |
| 1.0 | Water Fall Model | 6 |
| 1.1 | Main Menu | 47 |
| 1.2 | Register Interface | 47 |
| 1.3 | Forget Password | 48 |
| 1.4 | Credit | 48 |
| 1.5 | Add Record | 49 |
| 1.6 | Patient Record 1 | 50 |
| 1.7 | Patient Record 2 | 50 |
| 1.8 | Delete Patient | 51 |

**List of Tables**

|  |  |  |
| --- | --- | --- |
| **Table No** | **Description** | **Page No** |
| 1.0 | Cost Estimation | 9 |
| 1.1 | Task Division | 9 |

**List of Special Chart**

|  |  |  |
| --- | --- | --- |
| **Chart No** | **Description** | **Page No** |
| .1.0 | Gantt Chart | 11 |

II