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**Manoj Shrestha**

# **Abstracts**

We proposed a web-based desktop application ***Result Management System*** which will be used as a platform for the interaction between the facilitators, students and admins in order to prepare the result fast and efficiently. The main objective of this project is to computerize the paperwork of the result management process. The work will be automated due to this software. This will reduce the time and effort of the colleges and data can be easily accessed by the students with their handy devices. Similarly, it helps to detect the mistakes while entering the marks data and attendances.

This system uses **JAVA** as a programming language with its framework **Swing and JDBC** and **MySQL** as a database for the system. Thus, the main purpose of this system is to reduce time and cost. This system also reduces the amount of paper and time to get the results.

**Keywords used: JAVA, Swing, JDBC, MySQL, computerize**

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# **LIST OF ABBREVIATIONS**

# **CHAPTER 1 : INTRODUCTION**

## **1.1 Problem Statement**

Recently different colleges of Nepal are facing a lot of problems due to COVID. Students are not able to get the results in proper time as the facilitators cannot meet regularly with the college result section employee/staff. Marks cannot be given in time which delays the result. Similarly, extra staff are required for the result making process and result declaring process which creates a financial hit on the college economy. Also, the students who are far away on vacation have to come to colleges in the middle of vacation in order to get the results. This has a bad reflection on the educational system about not being able to apply the technology in this sector.

## **1.2 Motivation**

The importance of the result is great in today's world. The growth of an individual highly depends upon the quality of result and present college education system. And in a good college the chief objective is to stimulate the interest and curiosity in the students and provide facilities to the students, facilitators and parents to achieve the desired goal in a better and easier way. So the motivation of our project is to make tasks related to result management easy for the students, facilitators and parents.

## **1.3 Objectives**

* To manage all the information about the facilitators and students.
* To update the information easily.
* To provide the results to the students easily.
* To reduce the time for the result making process.
* To build a software for result management.
* To facilitate the attendance entry process of students by facilitators.
* To computerize the paperwork in the system and automate the work.

## **1.4 Project Scope**

In this era of technology colleges are based on paperwork. This system is the model for the user-friendly and effective management of result processing tasks. The ***Result Management System*** manages the result management process of the administration and provides a popper communication between the students, facilitators, admins and parents.

## **1.5 Limitations**

* Result info doesn’t contain the remarks of the students.
* Students and facilitators cannot create their own user id.
* Requires skill and knowledge of computers.
* It can only mark one at a time.
* Cost of this system will be expensive.
* Cannot enter the data without the internet.

## **1.4 Report Organization**

**Chapter 1:** This chapter explains about the overview, introduction,problem statement, motivations, project scopes and limitations of the system.

**Chapter 2:** This chapter covers all the history, methods, requirement specification and feasibility analysis and structured system requirements.

**Chapter 3:** Design of the result management system is explained in detail with all the necessary diagrams and brief functionality.

**Chapter 4:** Process of implementation and testing is described along with all the tools used for the development.

**Chapter 5:** Conclusion and future scope of the application are explained.

# **CHAPTER 2 : REQUIREMENT ANALYSIS**

## **2.1 Literature Review**

## **2.2 Problem Definition**

## **2.3 Requirement Analysis**

### **2.3.1 Functional Requirement (Use Case)**

### **2.3.2 Non-functional Requirement**

## **2.4 Feasibility Study**

### **2.4.1 Economic feasibility**

### **2.4.2 Technical feasibility**

### **2.4.3 Legal feasibility**

### **2.4.5 Operational feasibility**

### **2.4.6 Schedule feasibility**

## **2.5 Structuring System Requirements**

### **2.5.1 ER Diagram**

### **2.5.2 Process Modeling(DFD Level-0)**

### **2.5.3 Process Modeling(DFD Level-1)**

# **CHAPTER 3 : SYSTEM DESIGN**

## **3.1 System Architecture and Overview**

## **3.2 System Design**

### **3.2.1 Database Schema**

### **3.2.1 Data Dictionary**

### **3.2.2 UML Class Diagram**

## **3.3 Interface Design**

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# **CHAPTER 4 : IMPLEMENTATION AND TESTING**

## **4.1 Implementation and Overview**

## **4.2 Technology used in my system**

### **4.2.1 JAVA**

### **4.2.2 Swing**

### **4.2.3 JDBC**

### **4.2.4 MySQL**

## **4.3 Testing**

## **4.3.1 Integration Testing**

## **4.3.2 Unit Testing**

## **4.3.3 System Testing**

# **CHAPTER 5: CONCLUSION AND RECOMMENDATION**

## **5.1 Conclusion**

## **5.2 Recommendation**

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