# College Account Management System

Version 1.0

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# Acknowledgement

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*I express my warm thanks to **Er. Tula Kant Deo** for his support and guidance at DWIT for the case study. I would also wish to thank all the people who provided me with the facilities being required for my B. Sc. CSIT fourth semester's case study of College Account Management System case study.*

*Thank you again,*
*Author*

# Abstract

This case study discusses about how this case study is going to know all about the system. This report will help the user to know about the system and how this system is going to help users. These computer programs can serve to build paperless office. The pros in this system are discussed in this case study.

## List of figures:

## List of tables:

| Table | Page |
|---|---|
| Abbreviations | 3 |

## Abbreviation:

| Acronym | Name |
|---|---|
| CAMS | College Account Management System |
| DWIT | Deerwalk Institute of Technology |
| B.Sc. CSIT | Bachelor of Science in Computer Science and Information Technology. |
| DFD | Data Flow Diagram |

# Table of Contents

# 1. Introduction

College Account Management System (CAMS) is a computer based automated system that can be employed in a college or any educational institute to handle the account transactions. CAMS is responsible to create a college account transaction, automatic by putting back the manual scheme.

## 1.1.    Background

Every college in Nepal implements the manual system for managing the financial dealings. Manual system costs, labor and is not fast. Thus, every college needs an automated system that can manage all the financial business in a college. The automated system is quick, dependable, safe, and easy to apply. Additionally, it costs less and helps in minimizing risks.

## 1.2.    Objective

The primary objective of the College Account Management System is to substitute the manual account handling system with automated system in colleges.

## 1.3.    Need and Scope of the Study

The College Account Management System is needed in parliamentary procedure to replace manual operation of account in colleges. Manual operation increase cost and has the maximum probability of giving mistakes. The College Account Management System assists in getting to college account system fully automated so that there is minimal chance of errors in transactions. Unlike manual system, the errors in CAMS can be fixed and maintained. Going through an automated system means eliminating paper based system as well, and then, if the electronic system is implemented, papers won't be necessary which helps in protecting environment directly or indirectly.

# 2. System Analysis

## 2.1.    Feasibility Study

- **Economic feasibility**: This system is economically feasible. It will not cost a lot to make it due to availability of open-source tools. And maybe after selling the system, one can make a profit out of it.
- **Technical feasibility:** This system is technically feasible that means it can be made. The abundant availability of open-source tools makes it technically feasible.
- **Operational feasibility**: This system will help with organization. People don't have to worry about the manual procedure of account system in college.
- **Organization feasibility:** The people in the system will be getting comfort by utilizing this system.
- **Schedule feasibility:** This system can be made in a given timeline**.**
- **Legal feasibility**: It's not a copyright of another system. This system has no illegal contents

# 3. Methodology

## 3.1.    Context Diagram
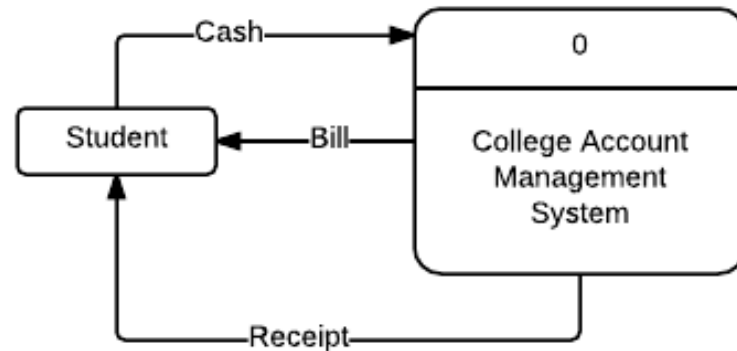
The context diagram for the CAMS is below:



*Figure 1: Context diagram*

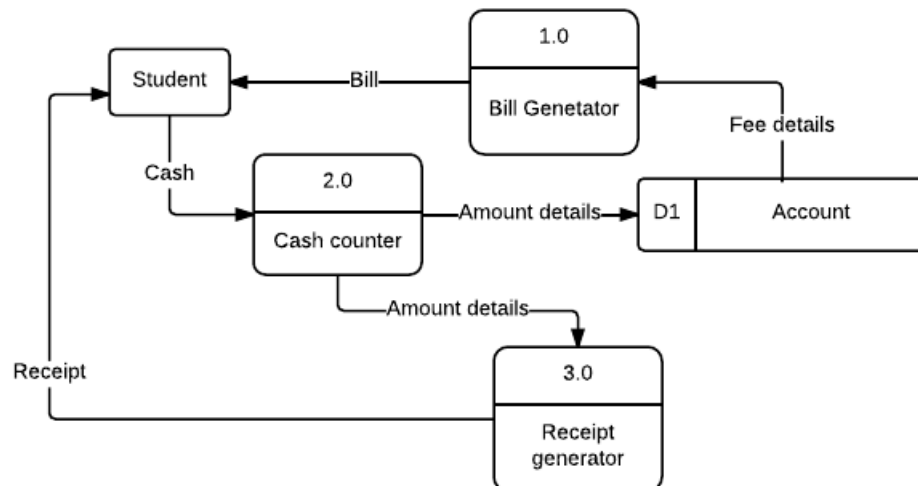## 3.2.    Data Flow Diagram
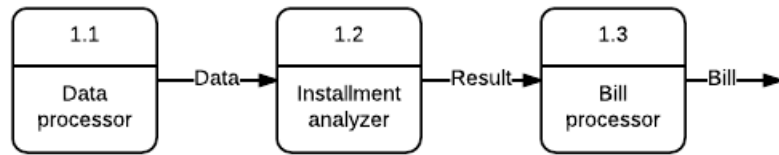
Level 0:



*Figure 2: Level 0 DFD for CAMS*

Level 1:

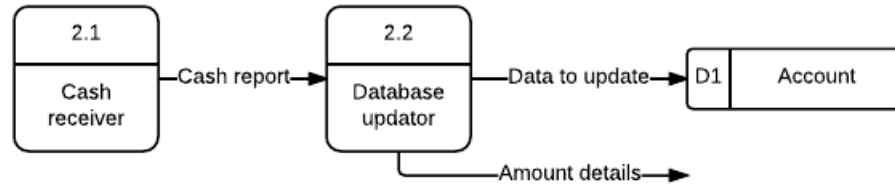*Figure 3: Level 1 DFD (Process 1) for CAMS*



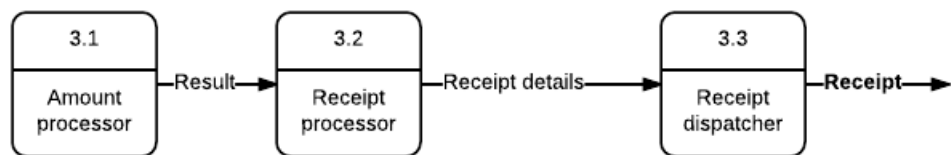*Figure 4: Level 1 DFD (Process 2) for CAMS*



*Figure 5: Level 1 DFD (Process 3) for CAMS*

## 3.3. Entity Relationship Diagram
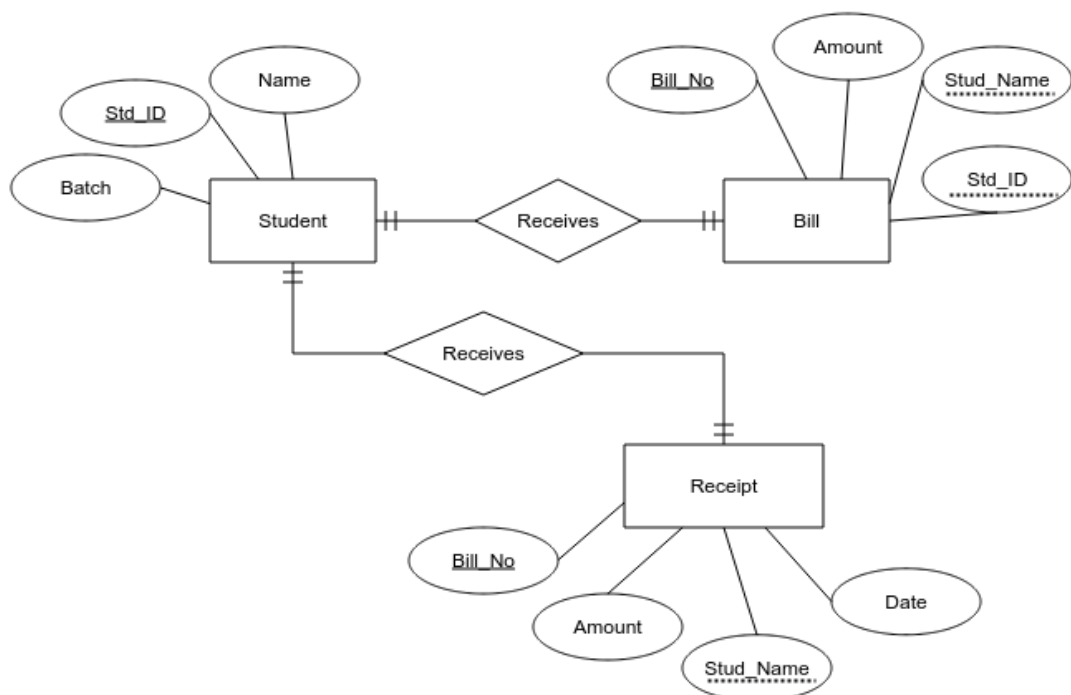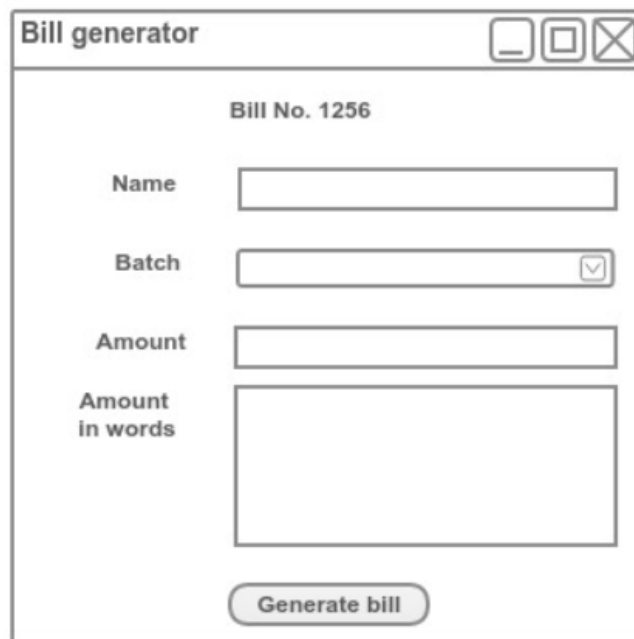
The Entity relationship diagram is shown below:
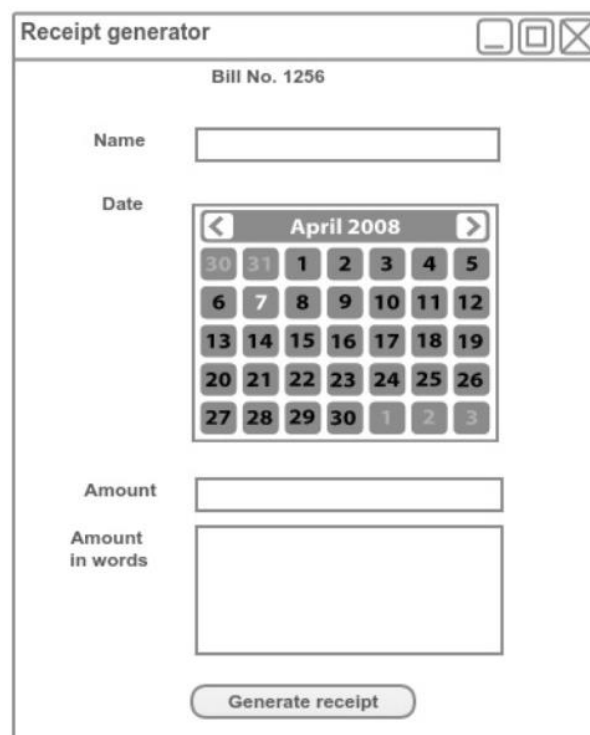


*Figure 6: ER-Diagram for CAMS*

## 3.4.    Form and Report Design

The form for generating bills is given below:



*Figure 7: Form for bill generations*



*Figure 8: Receipt generation form*

*Figure 9: Report of student fee structure*

### 3.5. Database Design

    a) *Database name:* Account
    b) *Database tables:*
- **Students**(Student_ID,Batch,Name)
- **Bill**(Bill_No, Amount, Student_Name, Stundent_ID)
- **Receipt**(Bill_NO,Amount, Student_Name, Date)

# 4. Results and Conclusions

Hence, in this way the manual system of college account management systems can be replaced by the paperless automatic system. The time and money consumption can be reduced with the help of this system.
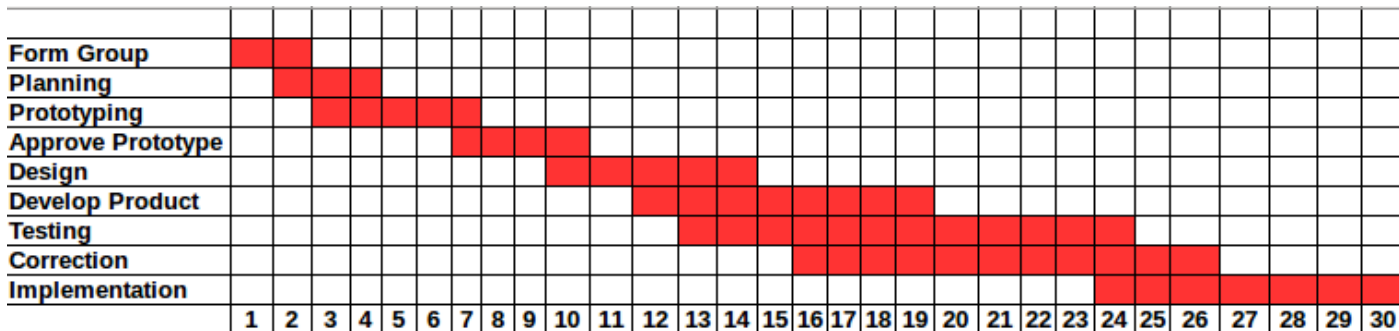
## GANTT CHART

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Form Group | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Planning | | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prototyping | | | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | | | | |
| Approve Prototype | | | | | | | ■ | ■ | ■ | | | | | | | | | | | | | | | | | | | | | |
| Design | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | | | | | | |
| Develop Product | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | ■ | ■ | | | | | | | | | | | |
| Testing | | | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ | | | | | | | |
| Correction | | | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | | | | |
| Implementation | | | | | | | | | | | | | | | | | | | | | | | | | | | ■ | ■ | ■ | ■ |

*Figure 10: Gantt chart for developing CAMS*

## REFERENCES

- ✓ Notes of Mr. Tula Kant Deo
- ✓ McLeod, S. A. (2008). Case Study Method. Retrieved from http://www.simplypsychology.org/case-study.html

## APPENDIX I: SET OF QUESTIONNAIRE

<u>*Questionnaire*</u>

1. *Are you going to use this system?*

   *Yes* ☐

   *No* ☐

2. *Do you think that this system is going to help you?*

   *Yes* ☐

   *No* ☐

3. *Are you comfortable in using this system?*

   *Yes* ☐

   *No* ☐

4. *What features do you want in this system?*

5. *Is your work faster than before by implementing this system?*

6. *Out of 1 to 5 how much will this system get?*