

Project Title



[KIMATHI UNIVERSITY COLLEGE OF TECHNOLOGY]

PROJECT PROPOSAL

BY

[ODIRA CALVIN]

PROJECT TITLE

[Student Examination Card/Notice-board System]

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Abstract

Notification is an area that is crucial for smoother running of institutions such as schools and various organizations. It may involve touchy issues that need care while handling. As we ever know, information is most helpful when it is timely, thus accessibility should be made easy and confidentiality assured. It is therefore almost needless to say that a system to ensure that these requirements are well taken care of is basic. A system with such sureties can help prevent possible tragedies and conserve resources.

There is therefore a need for a system that helps the society concerned to handle their issues more appropriately. For this, students will also be able to get direct information relevant to them (such as exam results, opening dates) from related agency.

On the part the administration, this system will ensure reliable information flow both during holidays and when the students are in session in a more effective manner.

Similarly, exam card collection by students has been a time consuming activity. A computer system that will enable the students that have cleared with the finance node of the administration access and print there exam cards is essential.

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CHAPTER ONE

INTRODUCTION

This is a system that ensures that the process of information flow remains undeterred and made more reliable both for the students and the administration in terms of time and access, thus giving round-the-clock connection. It also eases the process of exam card collection by students.

Problem Definition

There is always a problem in the way issues are handled in any institution for the period students are in session or holiday concerning examination results (those required to sit supplementary), opening dates, deadlines (for registrations,), activities, addressing specific groups of students. This system addresses these issues by providing direct administration-student link. A developed notice-board area for information pinning is provided. This will ensure that students remain updated. This provides a more clear-cut notice-board to supplement the existing system. This will also come in handy during holidays to maintain the administration-student connection.

Exam card preparation and collection is also an intensive activity both for the administration and the students. This system will enable the students to print their exam-card once they are cleared by the finance office.

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Objectives

Main objective

The main objective is to ease the process by which examination card information flow from administration and the students and ease the problem of examination card collection by the students from departments.

Specific objectives

- improve the administration-student link concerning exam issues.
- reduce the bulky paper work in different departments used for passing examination information.
- improve on the storage of and hence tracking of notifications as they are given.
- reduce loss of information as papers can be easily misplaced.
- enable addressing of the relevant student and specific persons in the most appropriate order.
- enable the persons concerned to own up to the costs if any.

Project Justification

This system will enable quicker handling of exam notifications. It will ensure student-administration link all through concerning examination information. At will, this will enable the administration to cut down on costs involved in communication through other media means as this will enable direct communication to the relevant bodies.

Additionally, this will:

- reduce the amount of paperwork involved
- ease means to accessing information.

The process of exam-card collection will be made easy and convenient for all the parties concerned.

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General Scope and Application of the project

This project fits all learning institutions that have examination department to handle the results of the students and that require clearance by the administration before sitting examination and need some kind of a proof for clearance such as exam card.

CHAPTER TWO

LITERATURE REVIEW

The modern forum originated from bulletin boards, and is a technological evolution of the dialup bulletin board system. From a technological standpoint, forums or boards are web applications managing user-generated content.

Notice-board is an application that helps people access and share information over the Internet using public digital notice-boards. There are existing bulletin boards e.g. Google notice-board. Communities can access a variety of relevant information. People can create text messages or record voice snippets and post them to one or more notice-boards. Typically each digital notice-board carries publicly accessible messages. Compared to the notion of personal communication using email accounts, the notice-board metaphor allows user to engage in public communication with communities.

Communities with access to shared computers can use the notice-board for exchanging messages related to community announcements, social interactions, local buying and selling, and information that is of wider interest to the community. The notice-board may also be used for the community to engage in a dialog with benefactors, public servants, and other service providers who are geographically distant. For example, residents of an apartment complex can use the notice-board for posting announcements, or NGOs who own and operate computer centers in several villages can use the notice-board to enable village residents to communicate amongst themselves.

Printable exam-card system is a new idea that has not been explored and thus has not much of related application systems that have been developed. One close application is the digital receipt system due to customer-receipt specificity nature.

CHAPTER THREE

METHODOLOGY

1

The methodologies I'll use include:

a) Fact finding tools

Interview-

Interview students and administration at different sections about administration-student examination-issues concerns.

sample interview questions

department/student information(record department of either the student or administrator interviewee)

- 1. how does the current system work?*
- 2.what are the advantages of the system(what do you find good about the current system)?*
- 3.what are the challenges that you find with the current system?*
- 4.what are your suggestions for improvement of the currents issues?*
- 5.what could your requirements be if the whole process is to be changed into electronic one?*

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Personal experience- as a member of student society, I have a personal experience concerning how communication, and exam card collection has been going on and that has stimulated me to try and improve it.

Questionnaires- distribute questionnaires containing relevant questions concerning the current system and of possible requirements to enhance exam results-handling techniques in the university. It will be constituted by different types of questions: open-ended and close-ended questions to capture the details of respondents' opinions and to pin-point given area by the respondent concerning a given matter respectively.

Sample questionnaire content

Examination card issuance/exam result access

1.who are you(administration wing of Kimathi/ student)?.....

2.in which department do you belong?.....

3.do you like the current system?(tick your answer)

☐

yes

☐

no

4. If you like current system, why do you like it? If not, what makes you not to like the system? What do you suggest to improve the current conditions?.(Give a brief explanation).....

.....

.....

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.....

5. If the system is to be made wholly electronic, what requirements would you suggest (functionalities)?

.....

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6.

b) Analysis and Design

Analysis and design will be done using activity diagram.

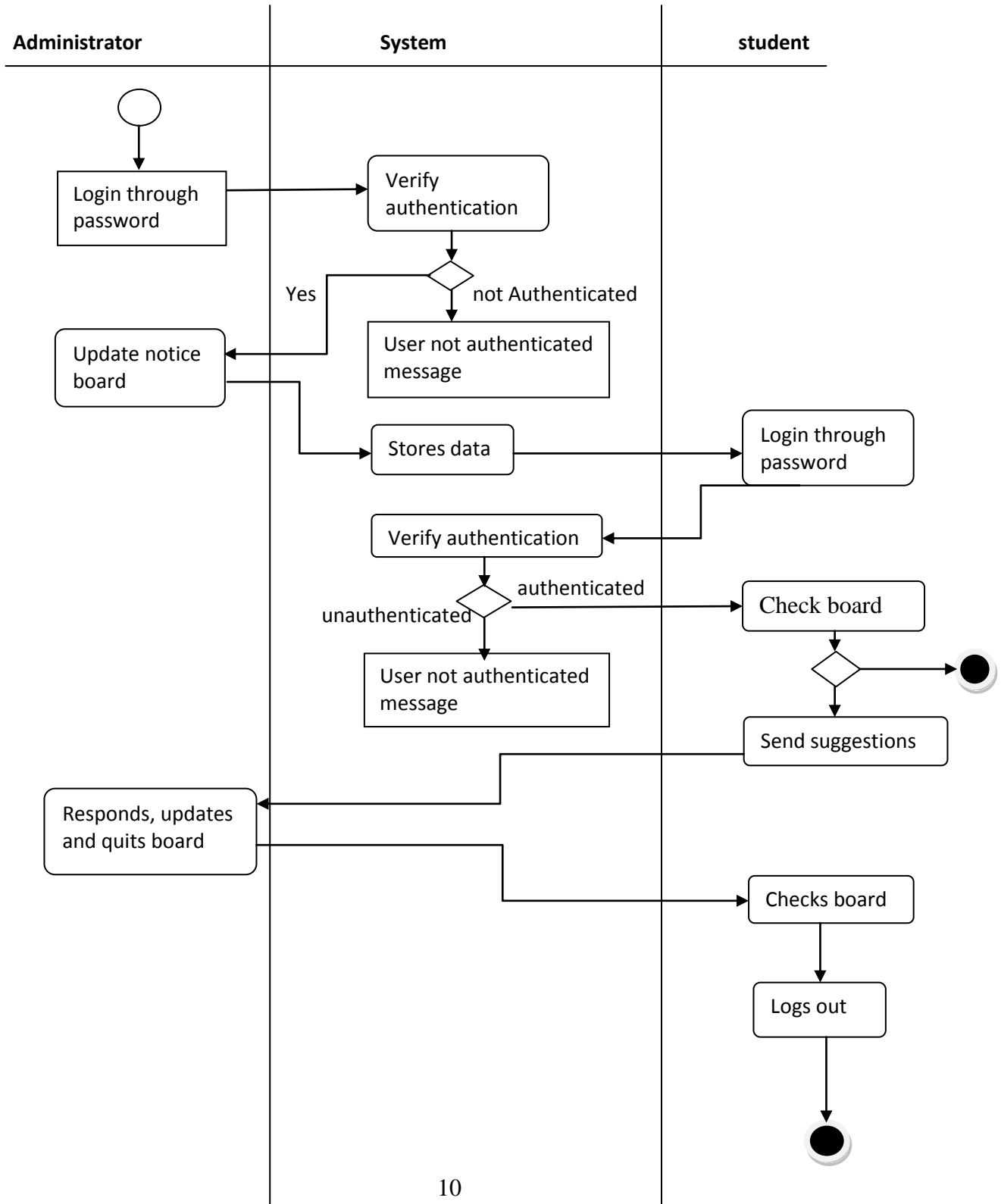
c) Development.

Development process will take RAD (rapid application development). Rapid application development is a software development methodology that involves methods like iterative development and software prototyping techniques to accelerate software systems development. It has the following phases:

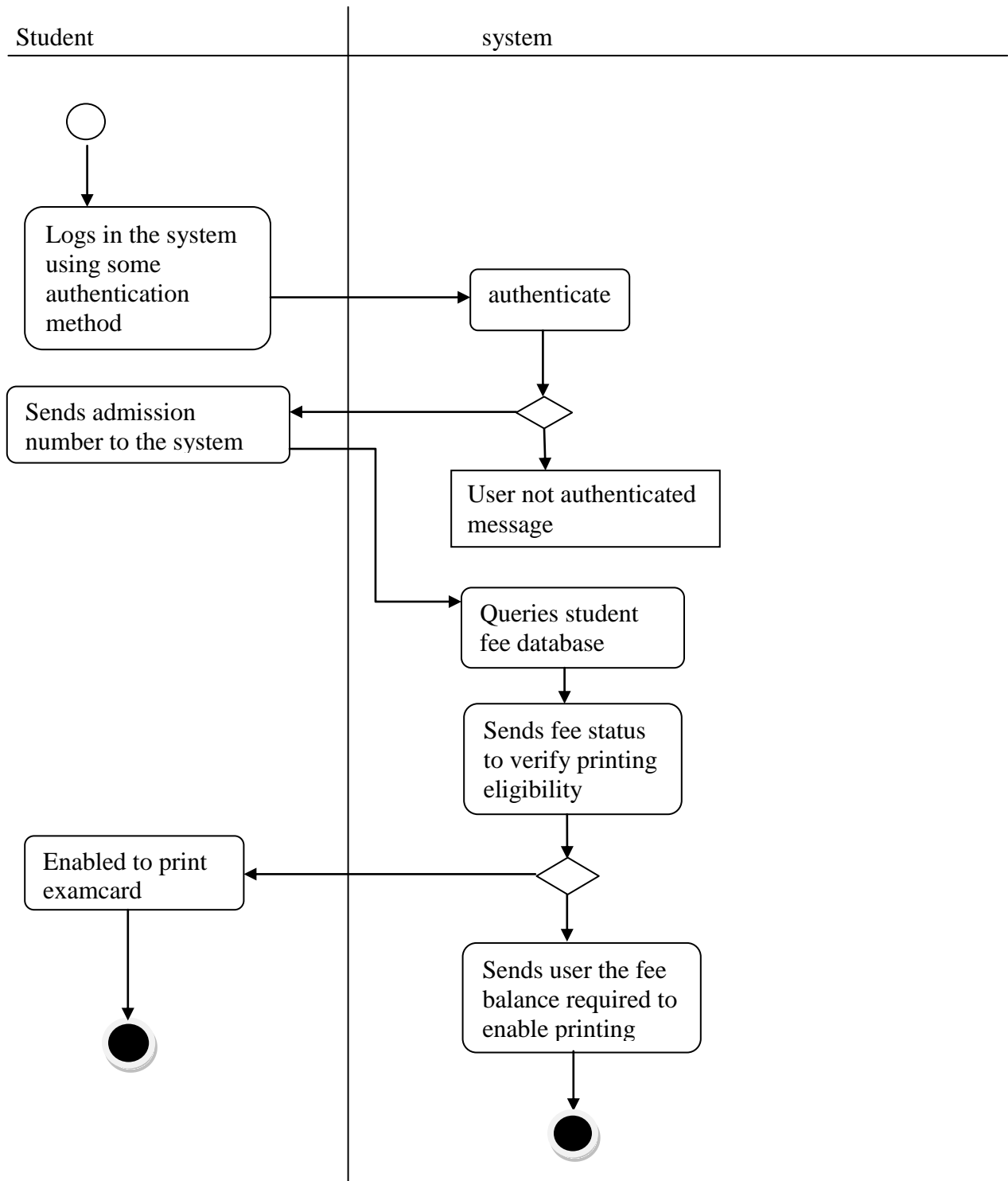
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- Requirements Planning phase
- User design phase
- Construction phase
- Cutover phase

Notice-Board activity diagram

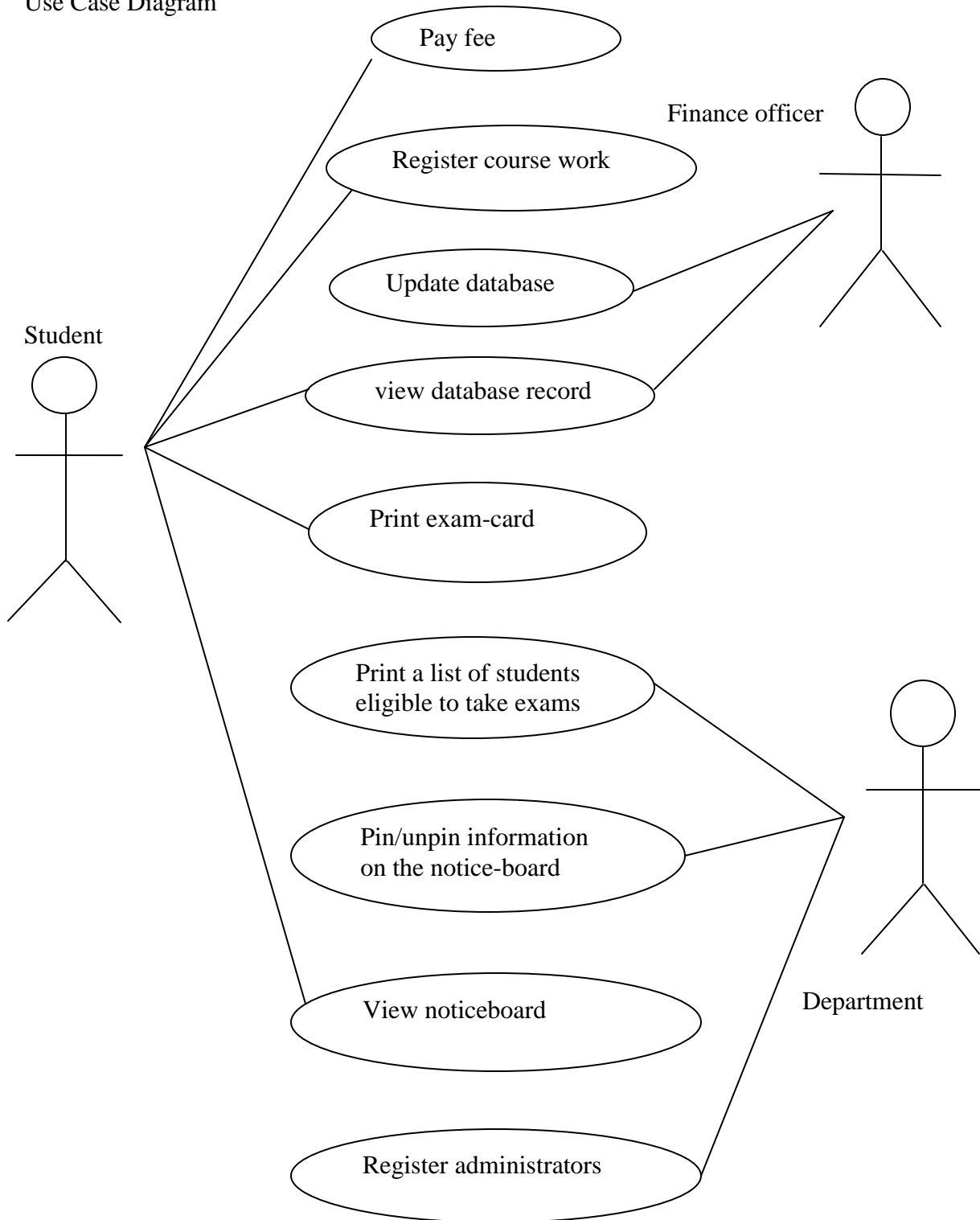


Exam-card printing System Activity diagram



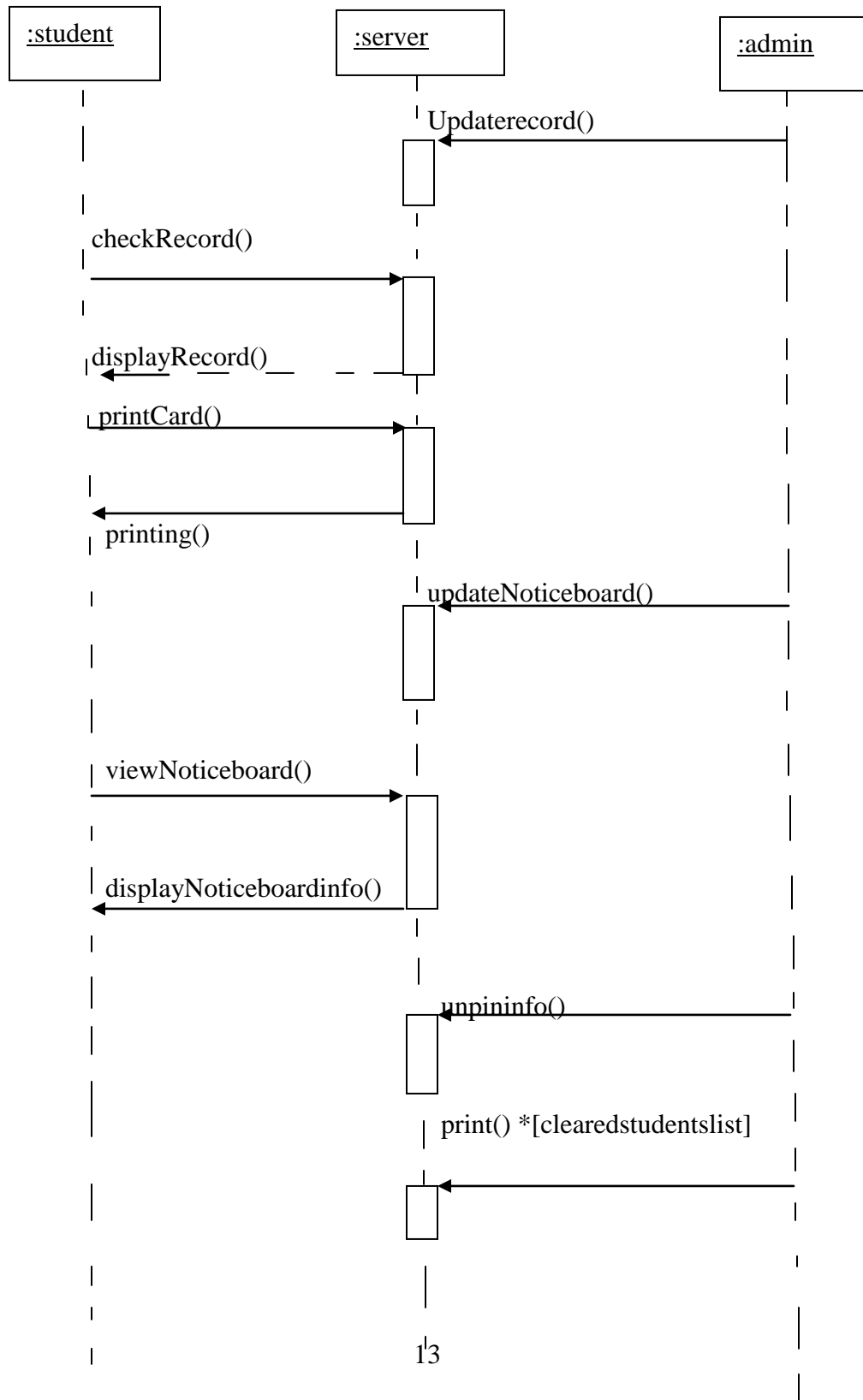
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Use Case Diagram



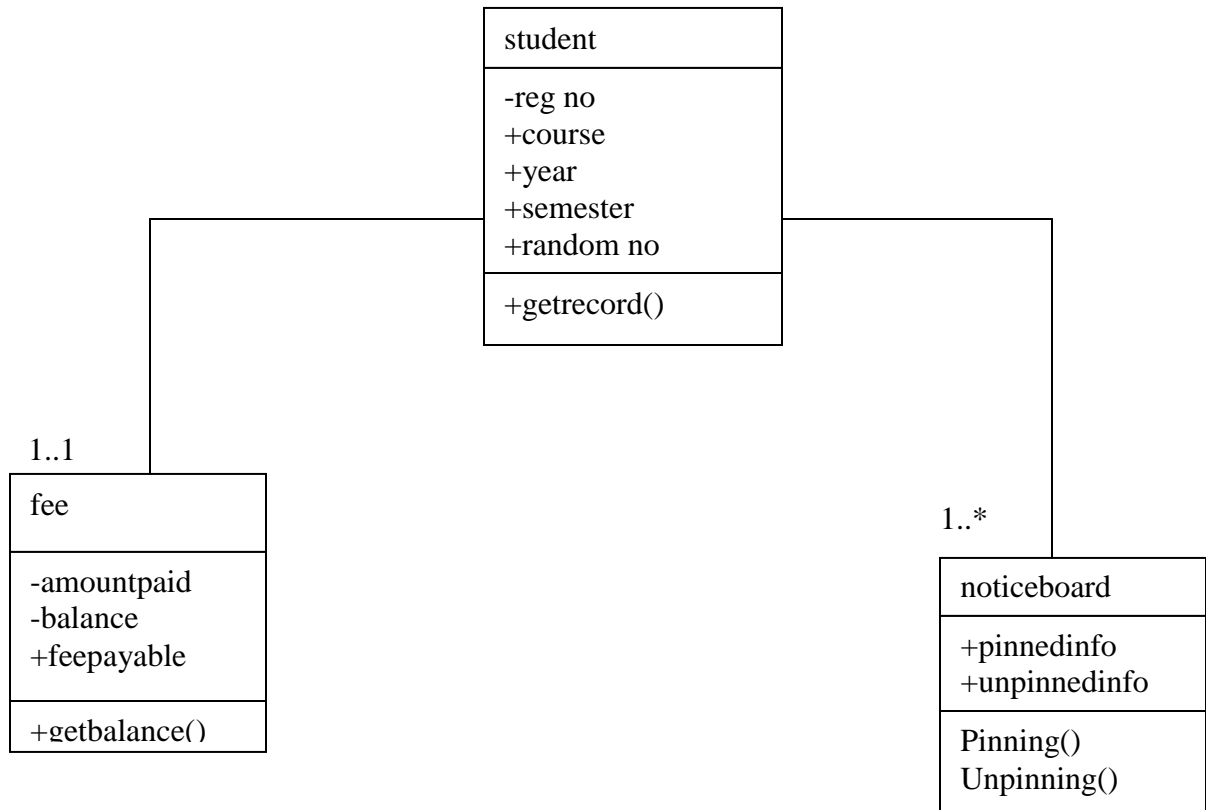
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Preliminary design(Sequence diagram)



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Class Diagrams



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Resources

The system requirements are:

Software

- browser
- Microsoft windows NT and later versions.
- mysql database
- FTP software(fileZilla)
- server operating system(2003 and above)

Hardware

- Pentium III processor and above
- 256 MB RAM and above
- 3 GB memory

Budget

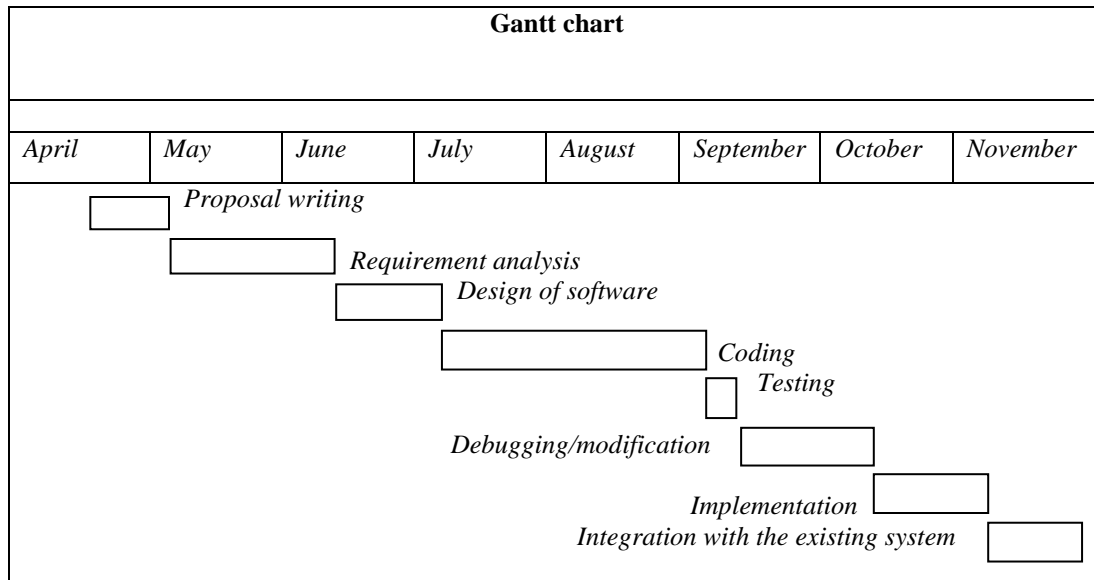
Item	Cost
Computer hardware(server/ client)	120,000
Computer software: operating system(server/client)	7,200
Internet cost	2,500
Typing and printing proposal(approx 20 pages)	1,000
Stationery	500
Miscellaneous	3,500
Total	134,700

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Schedule

1. 17th April -8th May
proposal writing
2. 9th May- 6th June
requirement analysis
3. 7th June -5th July
design of software
4. 6th July-7th September
coding
5. 8th September-15th September
testing
6. 16th September-14th October
debugging
7. 15th October-5th November
implementation
8. 6th November-27th November
system integration with the existing system

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Reference:

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<http://guildwars.incgamers.com/forums/showthread.php?410309-Noticeboard-system>

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California Stores Pilot NFC System Providing Electronic Receipts
<http://www.rfidjournal.com/article/view/9174>