

SCHOOL MANAGEMENT SYSTEM

BY

NAME: LITON AHMED

ID: CSE-06407582

NAME:ZINIYA CHOWDHURY

ID:CSE-06407521

This Report Presented in Partial Fulfillment of the Requirements
for the bachelor's degree of Computer Science and Engineering

Supervised By

Dr. Tahuid iqbal
CLASS TEACHER

Department of Computer Science and Engineering
Stamford University



TAMFORD UNIVERSITY
DHAKA, BANGLADESH

Aug: 2021

1.0: ACKNOWLEDGEMENTS

I would first like to thank my thesis supervisor **Dr. Talal Rahman, Professor & Chairman, Department of Computer Science & Engineering** and thesis advisor **Dr. Mehedi Hasan, Academic & Research Advisor of Stamford University**. The door to **Dr. Talal Rahman** and **Dr. Mehedi Hasan's** office was always open whenever I ran into a trouble spot or had a question about my research or writing. He consistently allowed this paper to be my work but steered me in the right direction whenever I needed it.

1.1: Without their passionate participation and input, the project could not have been successfully conducted.

Finally, I must express my very profound gratitude to my parents providing me with unfailing support and continuous encouragement throughout my years of study and through the process of researching and

writing this thesis. This accomplishment would not have been possible without them.

2.0 :ABSTRACT:

The school management system is a web-based system which will use as a platform for interaction between student, teachers and parents. While the main objective of this project is to computerize the paperwork in the system and automate the work. The computerization is done so that the storage of all the details regarding students and teachers will be stored in the system which makes system centralized and the chance of duplication of any data is minimised. While by doing automation to the system will reduce the time for storing any data in the system.

The main objective of the School Management System is developing a computerized system to maintain all the daily work of a school. It has two modules–

- **Teacher(student, the parent or any user).**
- **Admin.**
 - The user can register & login.
 - The user (student) can view your own result & attendance.
 - Anyone can see the school's policy, goal & objective.
 - The user can download exam routine, syllabus, booklist, assignment & other important documents uploaded by the admin.

2.1: ADMIN can add/update/delete and search these sections:

- Login & Register section
- Course section
- Semester section
- Student section
- Teacher section
- Exam section
- Result section
- The attendance

Overall School Management System website is a project to help the students as well as the teachers & staff to maintain the school in the best way possible.

TABLE OF CONTENTS

ACKNOWLEDGEMENT	1.0,
1.2	
ABSTRACT	2
.1, 2.3 2.....	3
LIST OF	
INTRODUCTION	
.....3.0,3.1	
3.3 OVERALL	
DESCRIPTION	
8 2.1 DESCRIPTION	
2.2 USING THE CODE	
2.3 MASTER PAGE DETAILS	
2.4 HARD WARE DITAILS	
2.5 SOFTWARE DETAILS	
3.0 SYSTEM REQUIREMENT	
SPECIFICATION	11 3.1
HARDWARE REQUIREMENT	
3.2 SOFTWARE REQUIREMENT	
3.3 USE CASE DIAGRAM	
4.0 DATA	
MANAGEMENT	
....13 4.1 ENTITY RELATIONSHIPS DIAGRAM	

4.2 DATA DESCRIPTION

4.3 DATA OBJECTS

SCREENSHOTS:.....

5.0 ,5.4.

CODE PROPERTIES:

.....6.0,6.1,2,3,4

ALGORITHM/FLOWCHART:.....

...7.1,2,3,4,

LIMITATION AND

WORK:.....8.0,1,2,3

3.1: Introduction:

School management system adapts to the system and process of your institution. School Management System is an advanced web based school management system offering flexibility and an abundance of features.

Use School Management System to manage students, management, teachers fees, fees details

and all the system and process related to running your institute efficiently.

I-net school management system is the best solution for the centralized management of academic data and this script provides communication link between faculty , parents and students.

Education system forms the backbone of every nation. And hence it is important to provide a strong educational foundation to the young generation to ensure the development of open minded global citizens securing the future for everyone. Advanced technology available today can play a crucial role in streamlining education related process to promote solidarity among students, teachers, parents and school staff.

3.2: School management system consist of task such as registering students, attendance record keeping controlling absentees, producing report cards, producing official transcript, preparing timetable and producing official transcript , preparing time table and producing different reports for teachers and parents.

- A school Management system is a large database system which can be used for managing school daily work
- It can be configurable and can be configured to meet most individual school needs.
- It is a multi-user system and can be used by hundreds of users at same time.

4.0: OVERALL DESCRIPTION:

A School Management System is **an information management system for educational institutions to manage all student's data**. It provides abilities such as registration of students in classes,

documenting of grades and analytical marks of each student and other evaluation elements.

School management software is basically a **set of tools that lets the organization to smoothly run the institute**. It is web/cloud based software, which connects the users. The users being the ones connected with the institute like - students, teachers, parents.

4.1: School Management System (SMS) consists of tasks such as registering students, attendance record keeping to control absentees, producing report cards, producing official transcript, preparing timetable and producing different reports for teachers, parents, officials from kebele or kefle ketema education bureaus and other stakeholders.

4.3: ADMIN can add/update/delete and search these sections:

- Login & Register section

- Course section
- Semester section
- Student section
- Teacher section
- Exam section
- Result section
- The attendance

The system would record student information, student enrollment, fees- collected and uncollected and billing of accounts. It cannot be altered or modified by other users (students, registrar, cashier & teachers) except for the administrator (the only one who have full access to the system).

4.4: Using the code:

Using java based program with jframe java based programming and mysql database and xampp server

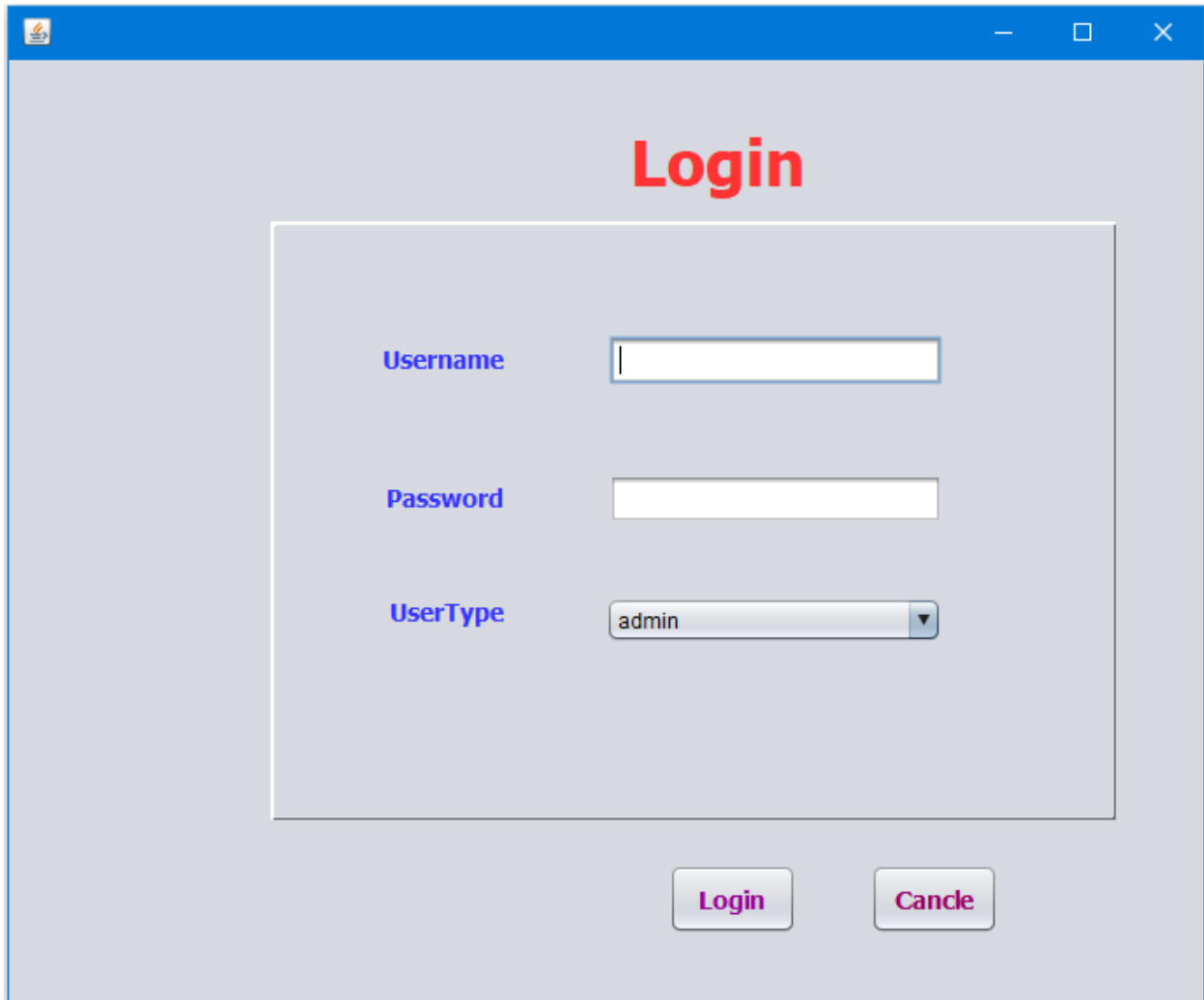
4.5 Hardware Requirements: The selection of hardware is very important owing to proper working of installed software components. When selecting hardware, the size and requirements are also important.

Hardware	Description
Processor	Intel Corei5
RAM	8 GB
HDD	500 GB

4.6 Software Requirements:

Software	Description
Operating System	Any platform
Language	java
Server	Apache, Unix,xampp
Database	MySQL

5.0 :Screenshots:

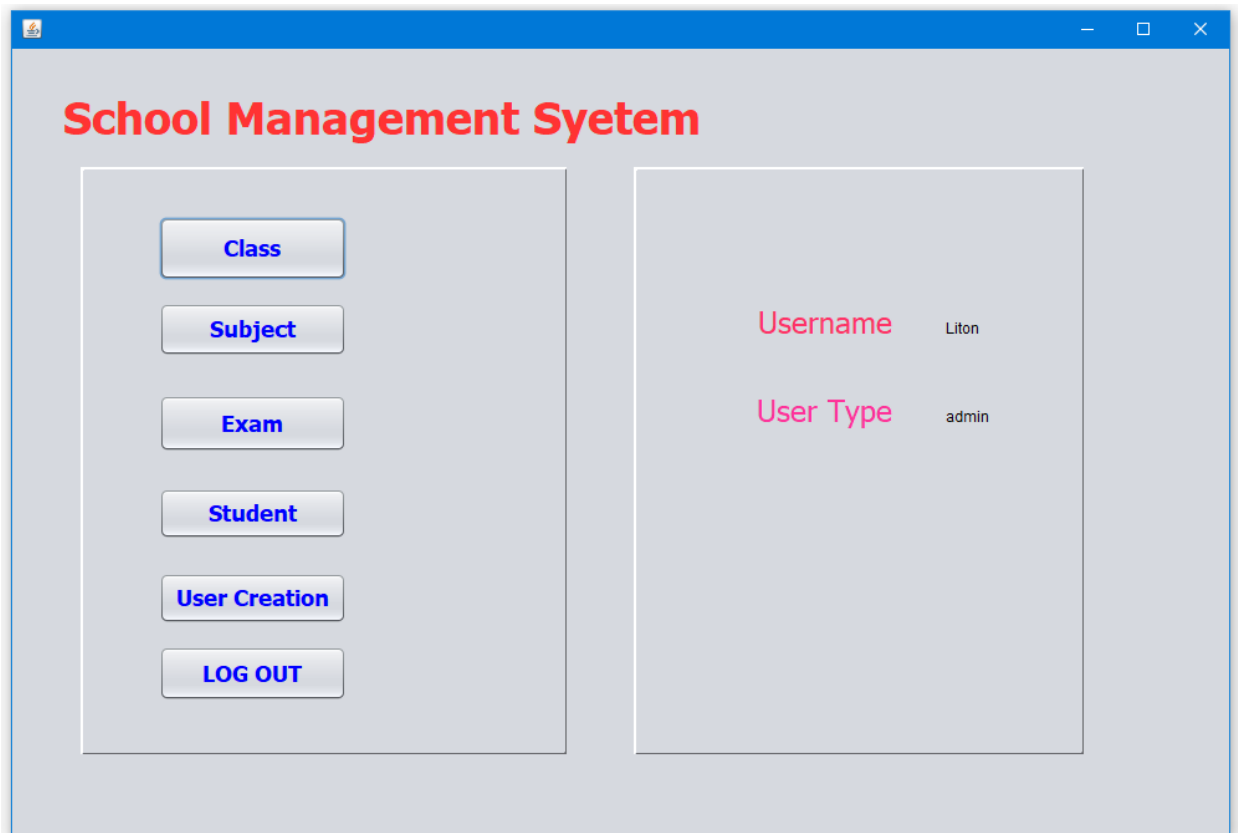


A screenshot of a web application's login interface. The window has a blue title bar with standard minimize, maximize, and close buttons. The main content area has a light gray background. At the top center, the word "Login" is displayed in a large, bold, red font. Below this, there is a white rectangular box containing the login form. The form consists of three labels in blue text: "Username", "Password", and "UserType". Each label is followed by an input field. The "Username" and "Password" fields are text boxes, while the "UserType" field is a dropdown menu currently showing "admin". Below the input fields, there are two buttons: "Login" and "Candle" (likely a typo for "Cancel"). Both buttons have a light gray background and a thin border.

This is login part. Here we will login into two type: (1) Admin part and then (2) Teacher part. So we called that here Teacher type

and admin type are login otherwise cannot login anything else.

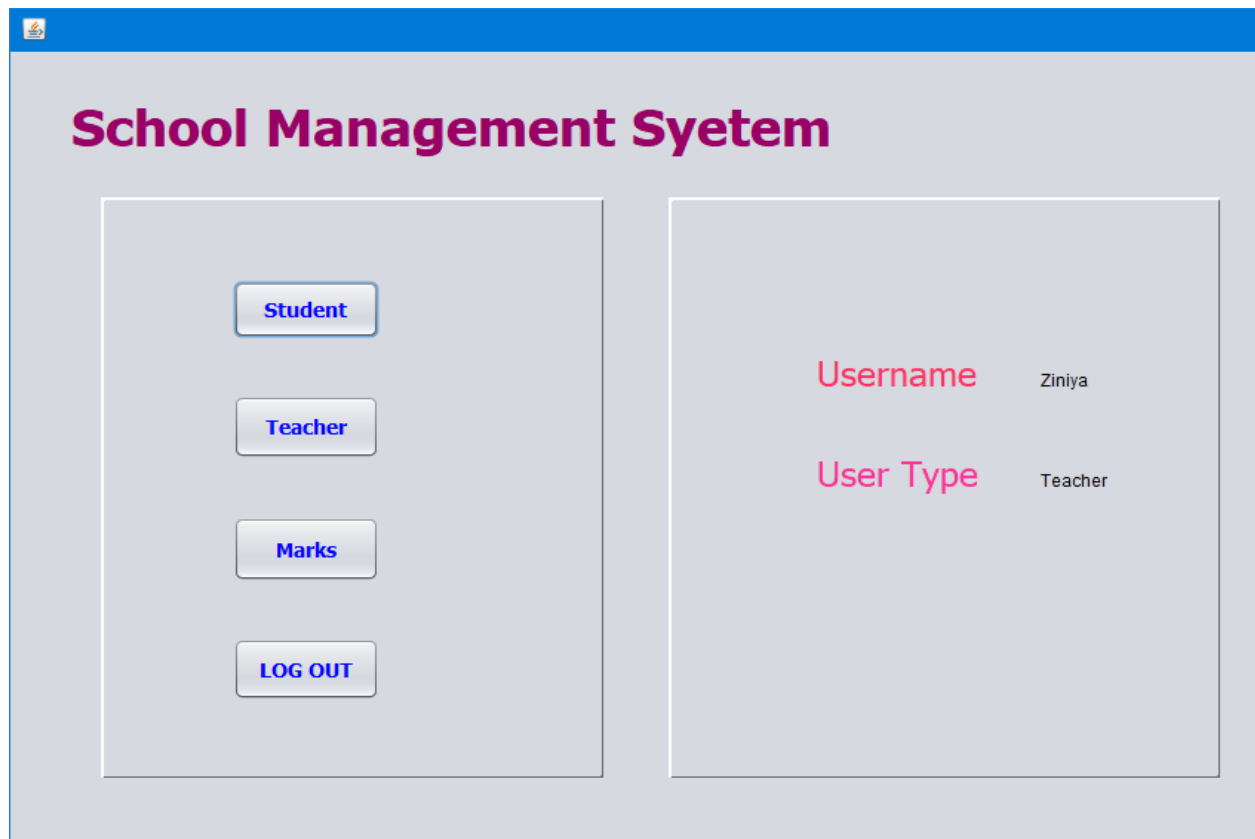
5.2:



When we login into admin part we will see this page. In this page have include – class name, Subject, exam, student, user creation and logout part. When we click this class part we will see one page include.

this page contains class name. After then when we click subject part we will see one page that contains subject add part. Here we add any important subject. At the same time exam click we get one page for exam details . student page contains students details and user creation create admin for user. And last of we log out from this page.

5.3:



When we will login teacher type and then we get this type page. Here include student, teacher, marks and same time logout.

Student page include students information, teacher part has included teacher information and Marks part has included marks details for student. And last of we can logout from this pag.

6.0: Code properties- (OOP concept):

Definition of OOP Concepts in Java

They are an **abstraction, encapsulation, inheritance, and polymorphism**. Grasping them is key to understanding how Java works. Basically, Java OOP concepts let us create working methods and variables, then re-use all or part of them without compromising

6.1:

OOPs Concept in Java



Object-oriented programming has four basic concepts: **encapsulation, abstraction, inheritance and polymorphism**. Even if these concepts seem incredibly complex, understanding the general framework of how

they work will help you understand the basics of a computer program

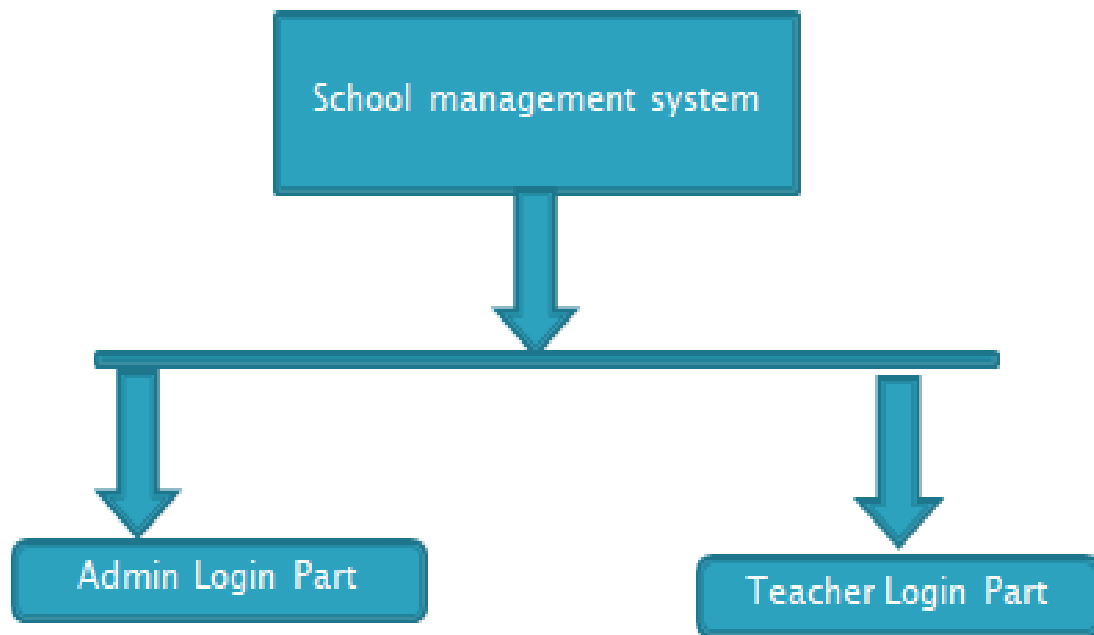
Overall property means

A property is **a member that provides a flexible mechanism to read, write, or compute the value of a private field**. Properties can be used as if they are public data members, but they are actually special methods called accessors.

6.2: Object-Oriented Principles. Encapsulation, inheritance, and polymorphism are usually given as the three fundamental principles of object-oriented languages (OOLs) and object-oriented methodology.

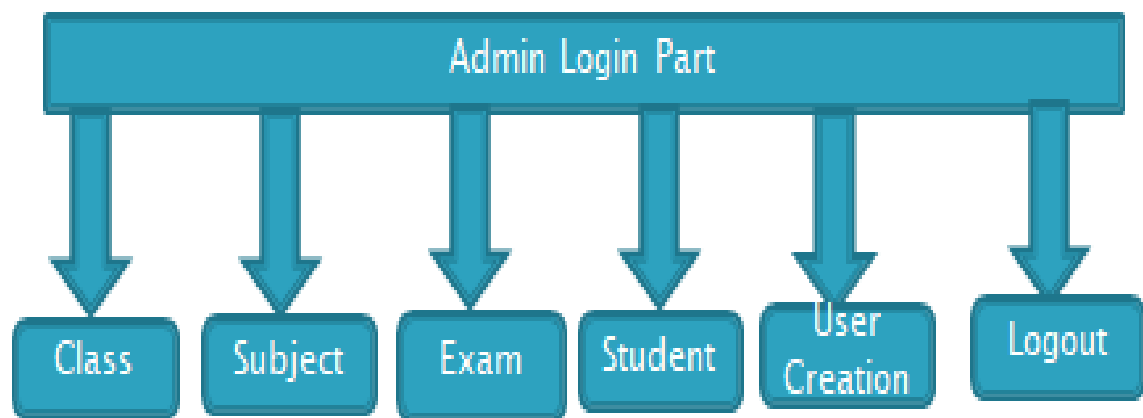
7.1: Algorithm/Flowchart/Use-cse/ER diagram (if any):

Algorithm/Flowcharts



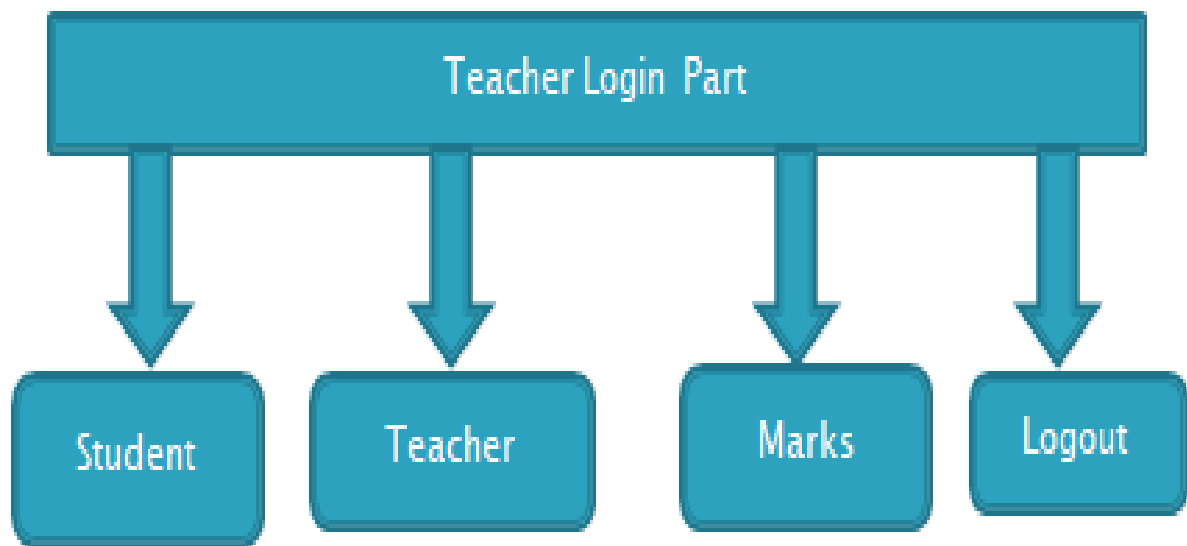
7.1:

Algorithm / Flowchart

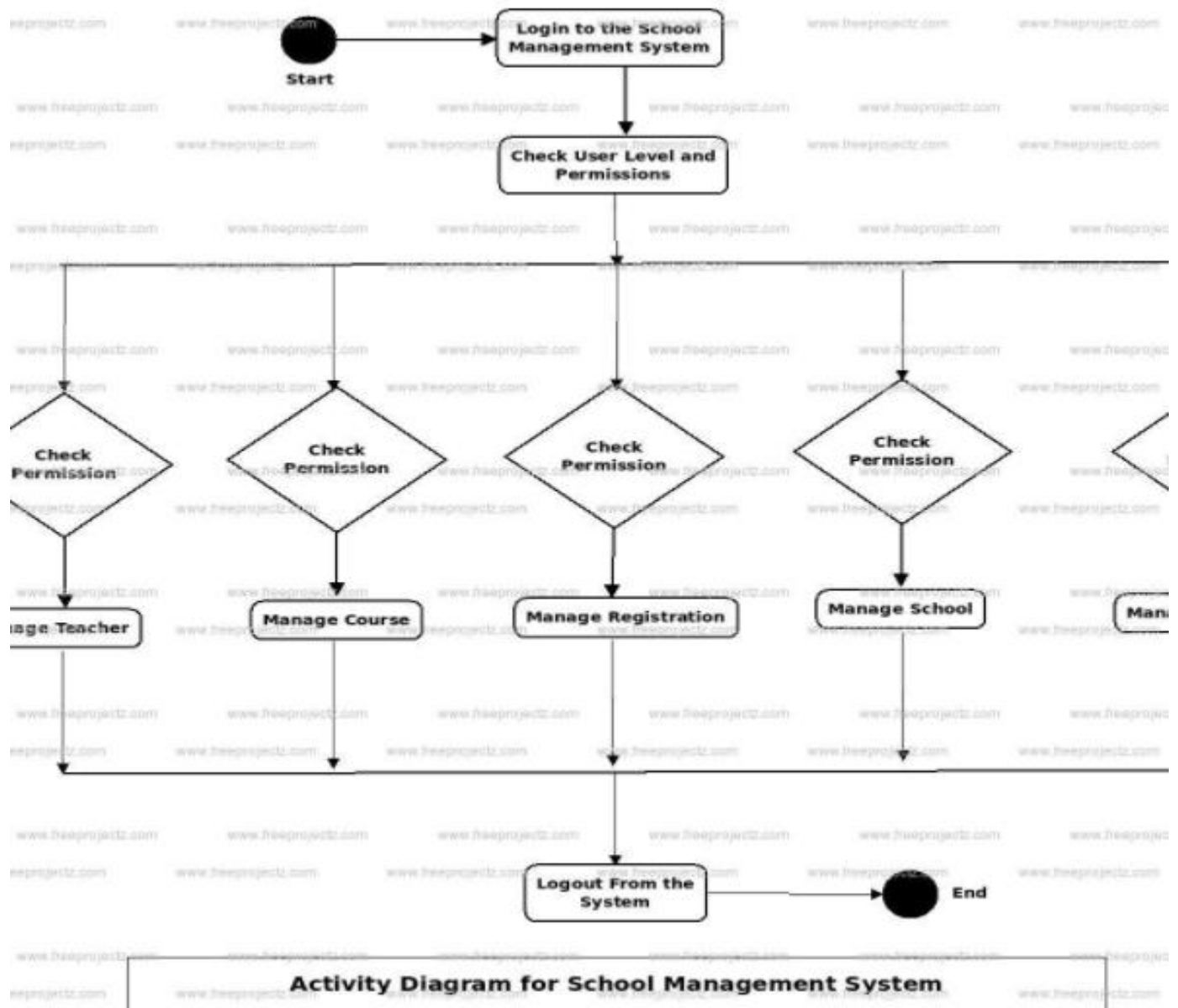


7.2:

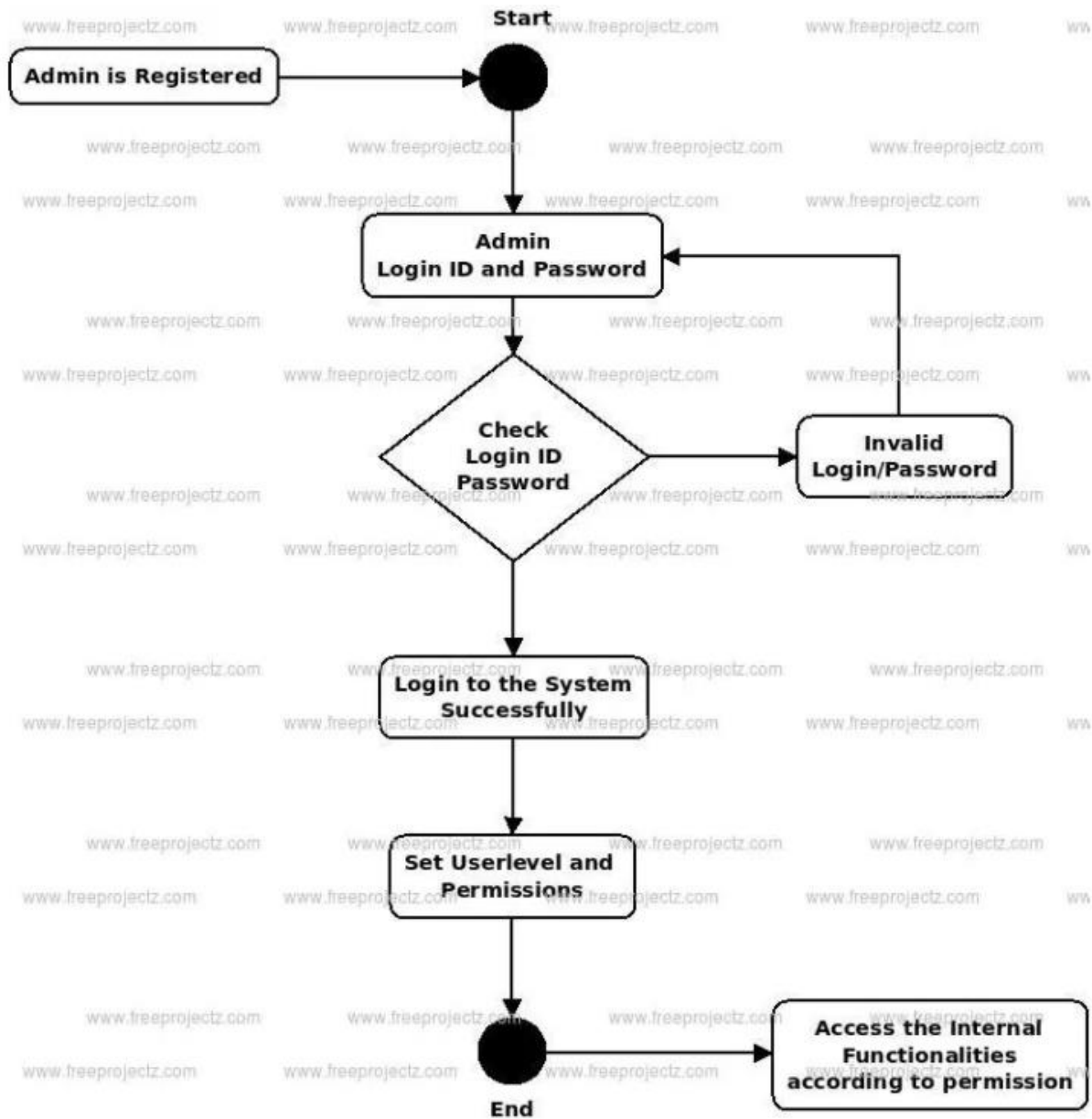
Algorithm/ Flowchart



7.3: Activity diagram for management system



7.4: Flowchart for school management system



8.0: Conclusion (limitations and future works):

8.1: Limitation:

Absence of proper internet-network makes it difficult for a user to access information, which is a significant disadvantage. The risk of data mishandling might be bothersome; but all these drawbacks can be evaded by choosing proper, cost-efficient and best software that best

- ▶ In this project there are some limitations:
- ▶ Students fees . School management employee list, employee management, Some attractive project related image etc are not include in this project.

8.2: Future work:

Project will cover usually all areas related to an educational institution especially school.

Student Trasnport promotion

System management

Financial accounting

Assest management

Fees management

Course / Syllabus

Inventory system