



Islamic University of Technology (IUT)
The Organization of the Islamic Cooperation (OIC)



Project title

KAJ SECONDARY SCHOOL

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October - ©2016

CERTIFICATION

This is to certify that the project title “**KAJ SECONDARY SCHOOL**” we are responsible for the work submitted in this dissertation, that the original work is our own except as specified in acknowledgements, footnotes or references, and that neither the dissertation or the original work contained therein has been submitted to this or any other institution for a degree..

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ACKNOWLEDGEMENT

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Finally, we thank all those who have helped us directly or indirectly in the successful completion of our thesis. Anyone missed in this acknowledgement are also thanked. If we did not mention someone's name here, it does not mean that we do not acknowledge your support.

Thank you.

DEDICATION

This thesis is dedicated to our father, who taught us that the best kind of knowledge to have is that which is learned for its own sake. It is also dedicated to our mother, who taught us that even the largest task can be accomplished if it is done one step at a time.

ABSTRACT

We are in the age of big changes, particularly the technology revolution and this has affected all aspect of our life. This modern-day revolution, at the global level, has manifested itself in the form of many innovations and breakthroughs and giant leaps in internetworking technology. With these changes, we have new opportunities, people can now transcend the barriers of time and distance with the internet's speed. This has completely changed our living style, and every sector got changed and most of the traditional activities are going on now online like jobs, study.

The aim of the project is to develop a document management system that is able to deliver access to anyone authorized anytime, anyplace on any device. The system developed makes use of rich internet technology to replace desktop application with rich internet application. The system shares the advantage of both web application and desktop application, and removes the most disadvantages of both.

The main purpose of this project is designed for better interaction between students, teachers, parents & management. It has also student's Forum where students can post and discuss any topic.

Thus this project has four major parts, the admin part for managing the all system, the teachers' part using to perform various teaching related activities, the students part to get and view their attendance as well as to communicate each other, the parents part to view their children's details, performance and to communicate with the school.

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CHAPTER 1

1.1 BANGROUND

Thinking that the system today realizes the importance of having an online presence whether that is through a website, or Facebook page, or a Twitter profile, etc. If an institution does not have an online presence, the chances are you could be losing valuable business to your competitors who do have effective and active online presences.

The relationship between users and internet communication has been established, such that internet is now internationally or worldwide accepted as a key development index.

Education is a backbone of the human society. So, it is important to provide the elegant, strong and quality education to every child of the generation to make sure that their personality is developed in a better way.

This technological era can play a crucial role by giving the students, teachers and parents a single but salable and efficient platform.

It consists of the modules such as registration of students, keeping the academic records, generating time tables, generating report card of the students etc.

1.2 PROJECT OVERVIEW

The main purpose using computerized system is to avoid manual problems and also documentation storage problem can't maintain long period data that's why we used computerized system to overcome all problem related to school's data storing and other areas.

The web must be designed to allow the school to record the details of its employees' date of joining, full name, address, phone no., date of birth, etc.

The web processing of all examination related activities is also required to be achieved by the system.

The student and teacher attendance activities must also be captured by the new system so that they could be analyzed in future by school administration.

The system should be able to generate annual collection summary, employees' report, etc. so that they could be used by the management authorities of the school for making decisions and deciding guidelines.

This is web based project that provide privilege facility for security purpose and provide login facility according to designation and restrict unauthorized used, if user is not admin then it can't access everything, this project provides four type of designation facility and access permission.

Above all, the software system should be able to eliminate all the paper work required in implementing the task of data maintenance, which previously was tedious, time consuming and error prone.

1.3 PROBLEM STATEMENT

In the offline system, it is an overhead to keep the records related to faculty, student, parents and other school staffs on the papers.

Everything related to their progress in the system is marked manually. E.g. A report of a student's attendance generated monthly is shown to his / her parents.

Now, a regular student, going to the school every day, is marked absent for a day by mistake. It is a burden to take out the register and view the records.

As you can see, it is a very time consuming process and it costs much.

So, we thought why we should not help these young guns of the nations to help them to have the bright future and to make an online centralized platform which can be accessed from anywhere across the world.

1.4 WHY DO WE NEED A WEBSITE?

Users are more and more likely to expect an institution to have their own website. In the eyes of a user's, having a website is a measure of viability of stability.

In short, if you do not own a website, then your users might not take you quite as seriously as they would if you did, that is the necessity of having website for your own institutions. Another excellent reason to have a website for your institutions is that it provides you with numerous options for a cost-effective saving you some money for manual display of information. Simply having a website gives you a spot in search results for your targeted keywords, no matter how small your target is, you will just find it in a minute and preview it.

In addition, having a website provides your current and potential users a means by which to measure your worth to their needs, without actually having to visit your authority in person. Beyond the importance of simply having a website though, it is important to have an effective website, one that is an asset to your business and that pays for itself in the amount of business or user it converts.

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Simply having a website gives you a spot in search results for your targeted keywords, no matter how small your target is you will just find it in a minute and preview it.

1.5 SYSTEM COMPLEXITY

This difficulty is not unconnected with applicant Multiple applicant complexity in that administrator are the users that have the overall power to view the number of applicant, approve applications and decline applications.

The system has a well organize database which handles all the data enter by applicant and retrieve by administrator. One more thing is that admin has overall power to update other sections information. Once again another difficulty we need to mention is based on the overall system implementations which include the following.

- 1. Applicant Registration Process**
- 2. Flow Control**
- 3. Dynamic WebPages**

1.6 ADMINISTRATION COMPLEXITY

This difficulty is not unconnected with applicant Multiple complexity in that administrator are the users that have the overall power to view the number of applicant, approve application and decline applications. Application approval can be done by admin with mailing of applicant. The system has a well organize database which handles all the data enter by applicant and retrieve by administrator. One more thing that admin has overall power to update other sections of the website such as Sectary & other information.

CHAPTER 2

Preliminary Study

2.1 INTRODUCTION

KAJ Secondary School is a comprehensive web-based School Management Software. It is designed for better interaction between students, teachers, parents & management. This management software very gracefully handles all the requirements for easy school management.

2.2 DEFINITION OF KAJ SECONDARY SCHOOL WEBSITE

KAJ Secondary School is web based project that maintain all the activity related to School, it store all the information of student.

KAJ Secondary school Project provide sending message to parent regarding student activity detail.

- ✓ To provide student detailed information and faculty details.
 - ✓ To make communication among the admin, students, teachers fast and easy.
 - ✓ To inform student with time to time event information and notices.
 - ✓ To inform parents about student activities through message.
- To generate separate student and faculty login Id and password.

2.3 ADVANTAGE OF THE SYSTEM

KAJ website offers the following advantages:

- The KAJ website helps students/visitors to access vast information about KAJ and KAJ programs.
- Frequent interaction with teachers.
- Computerized management of marks and grades.
- Reliable update on child's marks, progress report and fee payment.

2.4 SYSTEM DESCRIPTION

- User registration: - Before a user can apply he/she must register to the system by filling user registration form.
- Application process: - To apply for KAJ our system provides user friendly interfaces that enhance scalability during application process. For all applicant Users are to fill all the following forms.
- Personal details: - User has to provide his/her personal Information such as first name, last name, and fathers name.
- Next of kin: - Allow users to provide the name of their next of kin in case of emergency.
- Manage applicant: - In this section administration as the right to view list of applicant and to approved or decline.
- Admin Login: - Administrator can be able to log in by providing user name and password, the admin can also manage the information of Teacher, Student, Accountant and Sectary.
- Teacher Login: - A teacher can be able to log in by providing username and password.
- Student login: - A student can be able to log in by providing username and password.

- Sectary login: - Sectary can be able to log in by providing username and password. And also Sectary can register new student and view students.
- Accountant: - The Accountant can be able to log in by providing username and password. And He's responsible to keep record of the student's fees and view the record that he inserted. Additional of the Accountant to check the students that unpaid the school fees.

2.5 VARIOUS PORTALS OF THE SYSTEM

❖ ADMIN PORTAL:

- The school administrator's uses this portal to manage the school.
- Managing different users.
- Managing class schedules.
- Taking makeup attendance.
- Publish results.

❖ TEACHERS PORTAL:

- Teachers can access this portal to perform various teaching related activities.
- Taking and viewing attendance.
- Managing their profile.
- Viewing class schedule.

❖ STUDENTS PORTAL:

- This portal is being accessed by students.
- Viewing and editing their profile.
- Viewing their attendance.
- Viewing their result.

❖ SECTARY PORTAL:

- Register new Student
- View Student
- Upload new Student Photo

•

❖ **ACCOUNTANT:**

- Record payment of the Student
- View Record
- Accountability

2.6 FEATURES

❖ Admin

- Admin login
- Update
- View records
- Schools clubs
- View calendar

❖ Student

- Student login
- View Result
- View Transcript
- View Profile

❖ Exam Results

❖ Accountant

- Accountant Login
- Record
- View Student Record
- Accountability

❖ Sectary

- Sectary Login
- Register New Student
- View Student
- Upload Student Photo

❖ Teacher

- Teacher login
- Registration
- Enter Student Marks
- Update Student Mark
- Student Report
- View Student

❖ Report Generating

2.7 REQUIREMENTS

- ✓ The System Must Be Secured.
- ✓ Only those users will be part of this system or will be able to log in.
- ✓ Admin, students, teachers, parents everyone has his own page.

2.8 MOTIVATIONS

- ✓ Get your exam result where ever you are.
- ✓ Check your attendance.
- ✓ Post what is in your mind in the discussion forum

2.9 CONSTRAINTS

- The current system should be ready by the end of this year.
- The current system is completely free for use.

ISSUES & WEIGHTS

NO.	ISSUES	WEIGHT
1	The School Data may get lost or not found in manual data storage.	10
2	Students can't see exam results easily.	6
3	Teachers can miss attendance book.	4
4	Students don't have easy way to communicate each other.	3
5	Students may not know the news of the school.	2

2.10 SOLUTION OF THE ISSUES

- We provide easy system so that Admin can keep all data in the database.

- We implement a feature for exam results so that students can check their results in everywhere they are.
- If the teachers miss his/her attendance book, then they can easily get all data from the system.
- We implement a new feature in Student portal that is called FORUM so that students can communicate each other.
- In Admin portal, we have notice part that we add every news about the school.

This is web based project it's provide privilege facility for security purpose and provide login facility according to designation and restrict unauthorized used, if user is not admin then it can't access everything, this project provides four type of designation facility and access permission.

CHAPTER 3

Feasibility Study Overview

3.1 FEASIBILITY STUDY IN BREIF

A feasibility study is defined as an evolution of an existing system and a way of selecting the best system that meets performance requirements. This entails identification, description, evolution of candidate systems and selection of the best system for the job. The feasibility study is conducted once the problem is clearly understood. It is a high-level capsule version of the entire system analysis and design process. The core objective of feasibility study is to determine whether the proposed system is feasible or not and it helps to minimize the expenses of how to solve the problem and to determine, if the problem is worth solving.

The feasibility of the proposed system can be determined if the following are accomplished in different phases.

- i. To create an efficient and effective backup system so that important information will never lost
- ii. To maintain a computerized database for the website

In practical terms, while doing feasibility study, there are a number of tests that are to be performed as part of caution, better determination of favorable features and assurance of accuracy of the proposed system.

The following is a summary of the different feasibilities carried out in developing the website:

- i. Technical feasibility
- ii. Economic feasibility
- iii. Operational feasibility

3.2 TECHNICAL FEASIBILITY

The use of CSS and PHP makes form design easy and convenient. The project can be run on any system with minimum requirements. It reduces data entry errors because of data entry validation, it can be easily handled by any user, and it also helps in faster data update. Also the project though developed in GUI, it is very easy to operate. Hence the project is technically feasible.

In the technical feasibility study, we had to test whether the proposed system can be developed using existing technologies or not. It is planned to implement the proposed system using PHP, JavaScript, CSS and HTML.

The project entitled **KAJ SECONDARY SCHOOL** is technically feasible because of the following reasons:

- i. All the necessary enabling technologies exist to develop the system.
- ii. Existing system is so flexible that it can be easily developed and modified.
- iii. System requirements, both hardware and software is readily available and affordable by the members of the school.

3.3 ECONOMIC FEASIBILITY

Cost benefit analysis is very important in deciding whether the project is economically feasible or not. It is alone sufficient to save our time and money. It is one time investment and does not require regular maintenance. Through cost benefit analysis it was concluded that the benefits outweigh costs and thus the project is economically feasible.

Launching a website for and **KAJ SECONDARY SCHOOL** involves a great deal of financial issues which needs to be considered and given proper considerations. Many systems fail to reach their destination due to lack of proper budgeting and utilization of resources. A school should only adopt a new system if the cost-benefit analysis gives out a positive response even though the initial expenditure might look greater.

In short, the project is economically feasible only if tangible and intangible benefits outweigh the cost and we can say the proposed system is feasible based on the following conclusions:

- i. The cost of developing the full system is reasonable and within the reach of all the users to put together.
- ii. The cost of hardware and software for the application is very minimal.
- iii. System requirements, both hardware and software are easily available and economically sustainable in the short, medium and long term as well.

3.4 OPERATIONAL FEASIBILITY

In our **KAJ SECONDARY SCHOOL** website, we used MySQL database. Much of the dynamic content in the website comes in real-time using the data fetched from a database. The specific information presented to a member's panel or interface is created dynamically after the user has made a request. To accomplish this operational exigency, the following steps were taken:

- i. Some large database rich in content is queried.
- ii. Relevant data are extracted from database
- iii. The extracted data are organized as a content object
- iv. The content objects are transmitted to the client's environment for display.

As a result, we have designed the database to keep the efficiency and performance of the whole application at optimal levels.

CHAPTER 4

System Analysis

4.1 PRESENT SYSTEM IN USE

The present system consists of static web pages and do not allow dynamic insertions of data. Hence there is a need to create a dynamic website.

- ✓ System can be web-based so that everyone can easily interact with system.
- ✓ System can provide optimize functionality.
- ✓ System can be customizable so that one can update it.
- ✓ System can be flexible enough so that it can incorporate different changes time to time.
- ✓ All the information related with KAJ Secondary School can be documented.
- ✓ The most important thing is security. All the data should remain consistent and secure.

4.2 SOFTWARE REQUIREMENT SPECIFICATION

School administrator wants to build the system that technically and economically strong and helpful to company progress. He wants to reduce large man-power involved in company to perform the task that high company cost and slow company work. For future use all documents are kept in written or in a file in secure manner. If a file gets lost it cannot be retrieved in any way. A large storing area is required to store the data manually.

The purpose of software requirements specifications is to provide a framework that enables the manager to take reasonable estimates of resources, cost and schedule. These estimates are made with a limited time frame at the beginning of a software project and should be updated regularly as the project progresses. In addition estimates should attempt to define best case and worst case scenarios so that project outcomes can be bounded.

To gather the requirement of client's need, we take the idea about the data flow from other school websites and also refer documents of school.

4.3 FLAWS IN PRESENT SYSTEM/ NEED FOR NEW SYSTEM

- ✓ Present system is a totally manual system which lacks security and is time consuming. This is not user friendly
- ✓ The data is recorded manually, which is error prone and often leads to confusion.
- ✓ A lot of file work had to be done for storing information like student details, faculty details.
- ✓ There may be possibility of delay in managing whole result process.
- ✓ Also, certain information redundancy may occur then it will become a hurdle to manage.
- ✓ Staff member Management entitles all management of activities related to notice, time table and result publish and so on requires a lot of paper work.

4.4 PROPOSED SYSTEM

This site is an attempt to make the task of administrator easier. This project ensures the consistency by enabling the parents to login the system themselves and to find the desired information about their student's profile, student's attendance, student's result and many more.

The administrator has the right to know everything. He has the right to know the details of the student and faculty, has the right to change any information that the website is currently providing.

The administrator can also contact the parents through message to state his child activities. Aim of this project is to provide an environment helpful for administrator, faculty and parents to obtain information. This project is developed after a thorough study of the existing manual system.

4.5 PROJECT CATEGORY

This is web based project. This project developed for education purpose. It provides the better facility for student to check all the information related to exam information and discuss about study material.

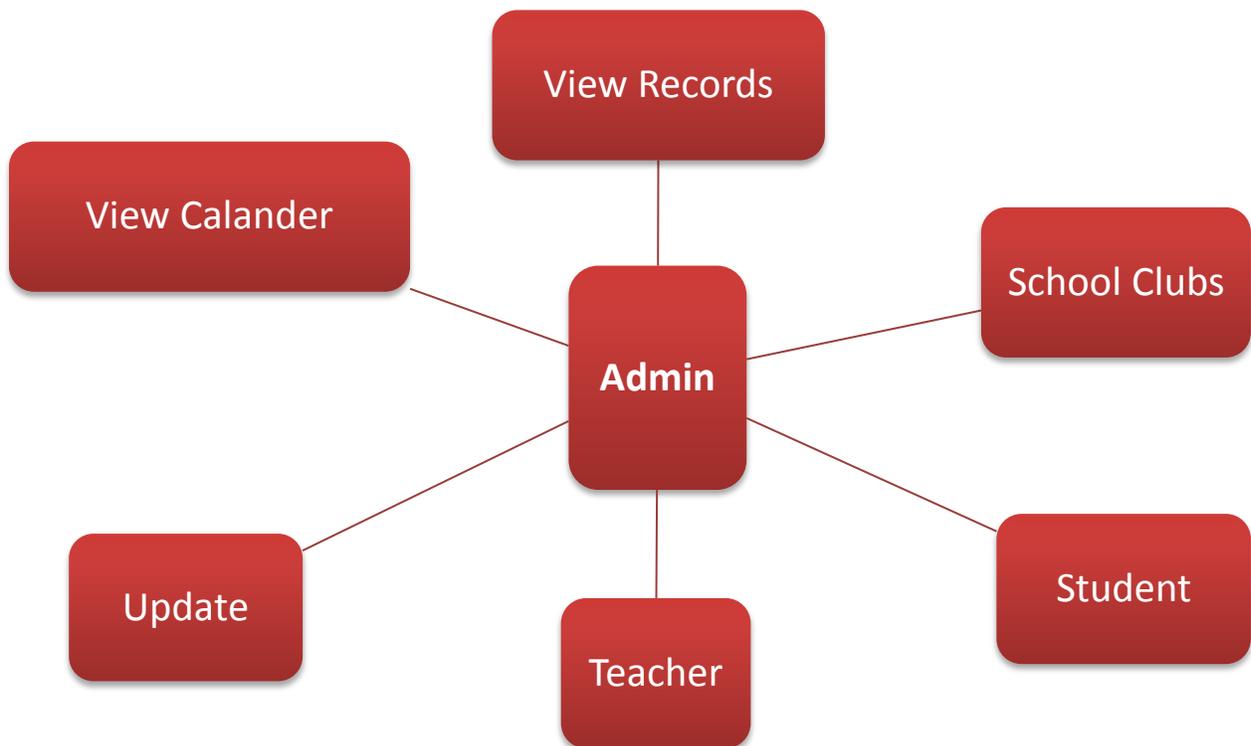
This project provides the user id to student for check online events and notice.

It provides online forum facility and main objective of this project is increase the communication between students of the school and know everyone about the school and its facility.

While using this application, Client will get to know the quality of education that is delivering in school. This project developed for KAJ SECONDARY SCHOOL is private school.

Chapter 5
KAJ Secondary School

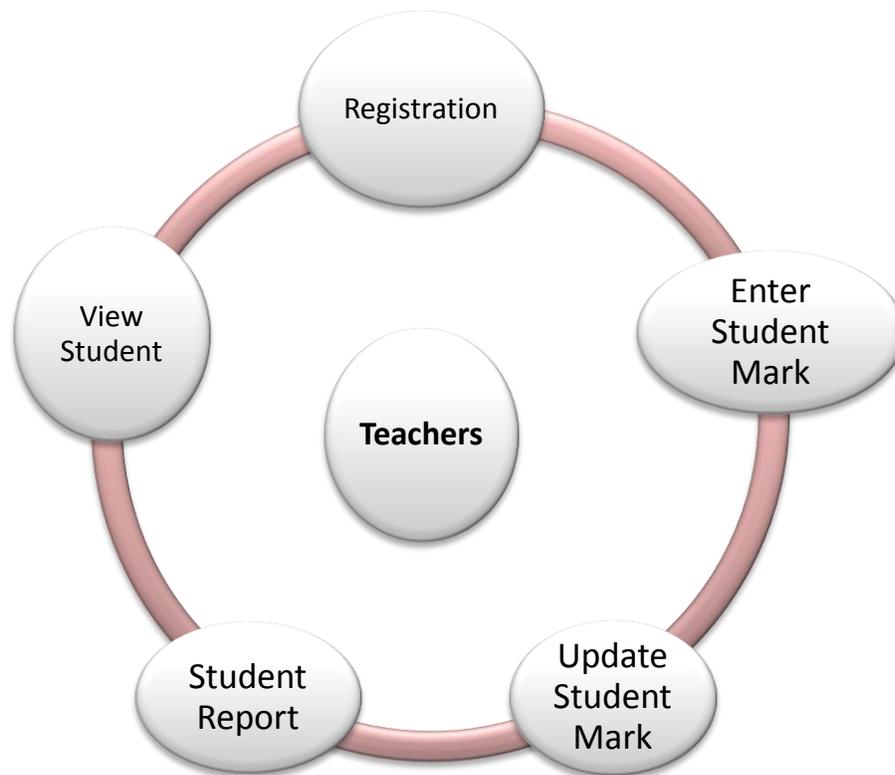
5.1 ADMIN PORTAL DIAGRAM



- **ADMIN**

- ✓ View Records
- ✓ School Clubs
- ✓ Student
- ✓ Teacher
- ✓ Update
- ✓ View Calendar

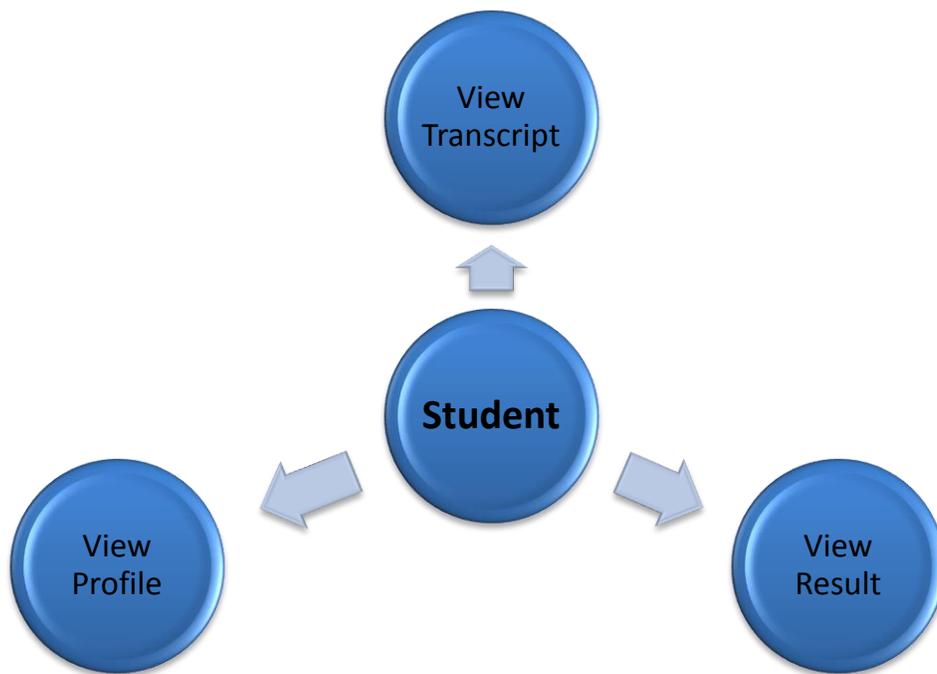
5.2 TEACHER PORTAL DIAGRAM



▪ TEACHER

- ✓ Registration
- ✓ Enter Student Mark
- ✓ Update Student Mark
- ✓ Student Report
- ✓ View Student

5.3 STUDENTS PORTAL DIAGRAM



▪ STUDENT

- ✓ View Transcript
- ✓ View Result
- ✓ View Profile

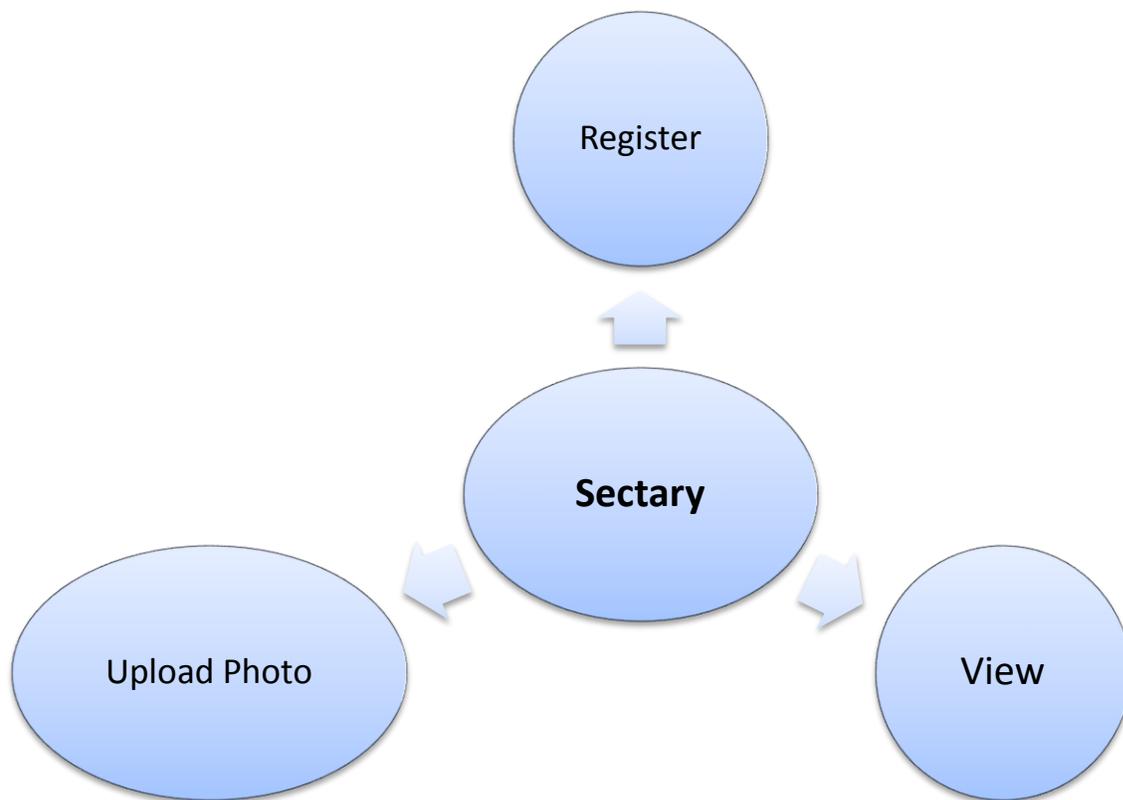
5.3.1 ACCOUNTANT PORTAL DIAGRAM



▪ ACCOUNTANT

- ✓ Record
- ✓ View
- ✓ Accountability

5.3.2 SECTARY PORTAL DIAGRAM



- **Sectary**

- ✓ Register
- ✓ View
- ✓ Upload Photo

CHAPTER 6

System Design and Implementation

6.1 Functional Requirement

- **Hardware requirements**

- Processor
- Ram
- Hard disk
- Internet Connection

- **Software requirements**

- ❖ **Languages**

- ✓ HTML
- ✓ PHP
- ✓ CSS
- ✓ JQUERY

- **Database**

- ✓ MYSQL

- **Server**

- ✓ XAMPP

- **Framework**
 - ✓ BOOTSTRAP

- **Browsers**
 - ✓ Internet Explorer 8 or higher
 - ✓ Firefox7 or higher
 - ✓ Opera
 - ✓ Google Chrome

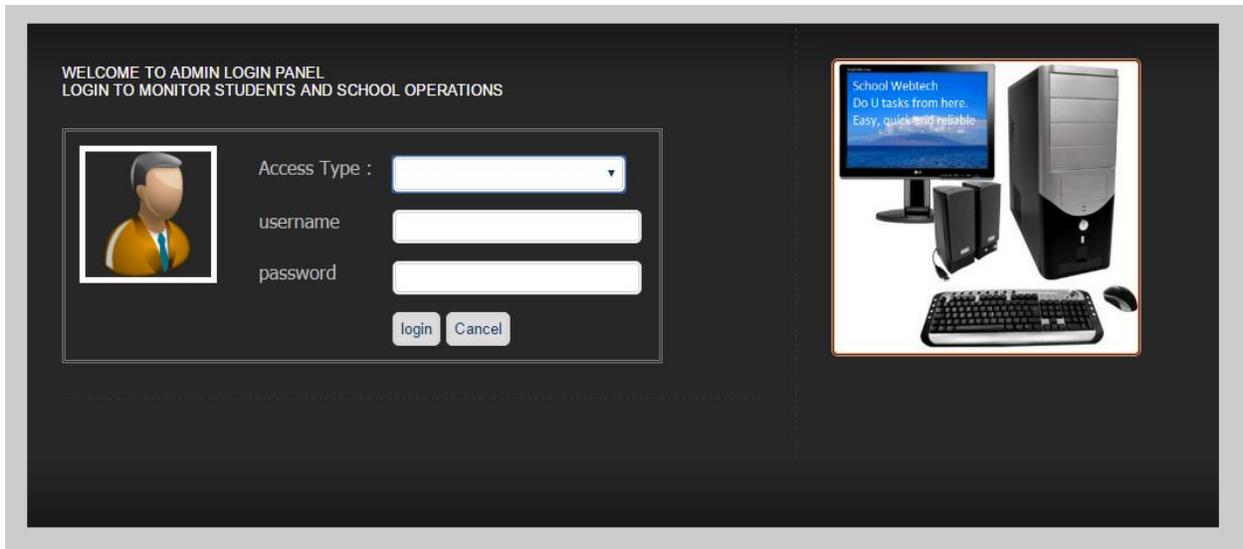
6.2 Hardware specifications

There is no restriction to the hardware with which we want to access the website. Any device that has internet connection with a modern browser can be used to access the website. That means the website can be accessed by using:

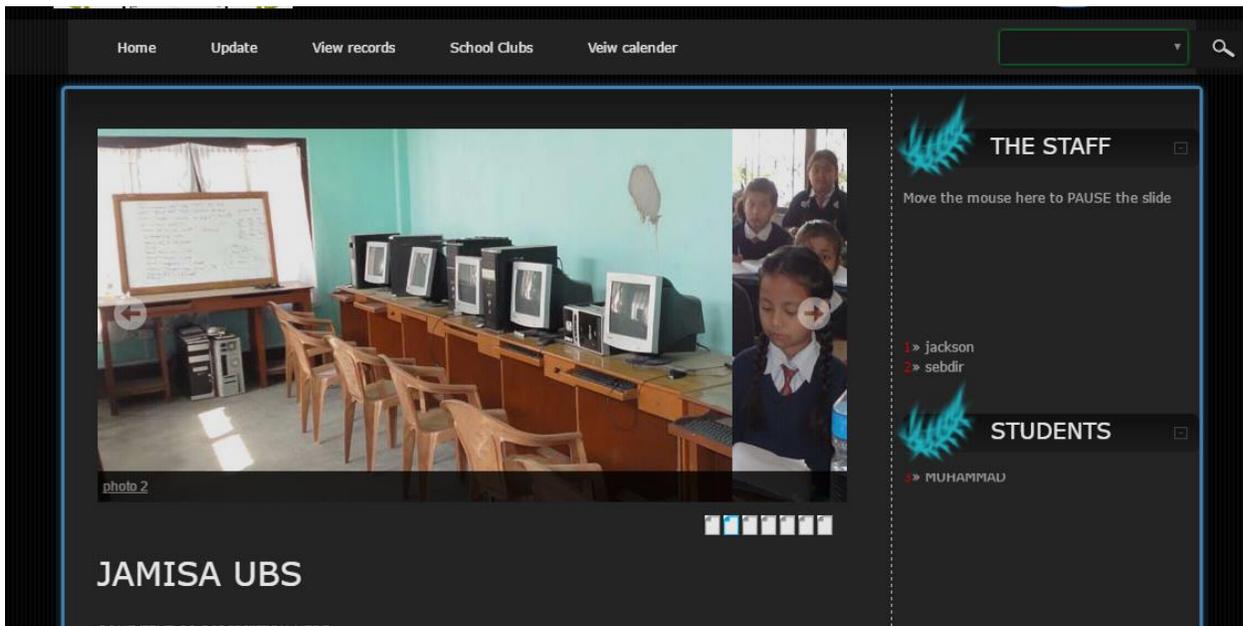
- i. A personal computer
- ii. Smart phone
- iii. Tablet
- iv. A TV which has internet connection
- v. Any device that can access internet

This is possible due to responsive capacity of the website which can adapt itself to the any device to give to user a very high experience.

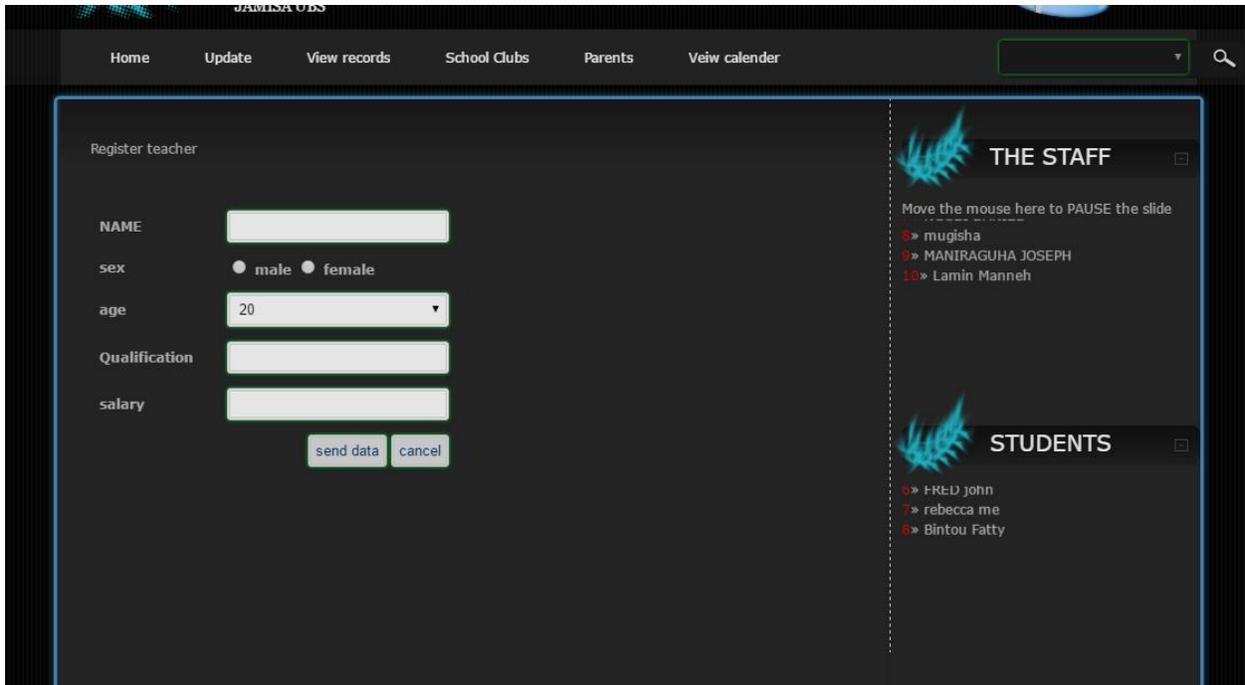
6.3 LOGIN FORM 1



6.4 ADMIN HOME PAGE



6.5 ADMIN REGISTER TEACHER



6.6 ADMIN STUDENT VIEW

print the record
Information: There are 3 male students and 5 female students
Total number number of students is 8

NAME	SEX	DISTRICT	PARENT	OFFERTYPE	CLASS	STATUS	ACTION
jackson hreb	M	KISORO	jacob	DAY	SENIOR ONE	ACTIVE	
cubed tevvez	M	Kisoro	yurself	Day	SENIOR SIX	Active	
herbert samz	M	kidoro	mself	DAY	SENIOR TWO	expelled	
NANI lous	F	EASTA	FAGUSON	BORDING	SENIOR FOUR	Active	
JAC romeo	F	KABALE	SINAM	DAY	SENIOR THREE	died	
FRED john	F	KABALE	jackson	BORDING	SENIOR ONE	Active	
rebecca me	F	HERE	FATHER	BORDING	SENIOR FIVE	Active	
Bintou Fatty	F	Kombo	Ousman Fatty	DAY	SENIOR ONE	Active	

THE STAFF

Move the mouse here to PAUSE the slide

- 6» muglisha
- 9» MANIRAGUHA JOSEPH
- 10» Lamin Manneh

STUDENTS

- 6» FRED john
- 7» rebecca me
- 8» Bintou Fatty

6.7 ADMIN TEACHER VIEW

Home Update View records School Clubs Parents Veiv calender

NAMES	SEX	AGE	QUALIFICATION	STATUS	ACTION
jackson	M	44	BSSE	active	
IT WORKS	M	24	BASE	active	
kananura	M	21	NTC	left	
sebdir	F	36	BBA	Active	
lydia	F	20	BBA	Active	
RIMA	F	20	ddd	Active	
NGOBI DANIEL	M	26	Bachelors	Active	
mugisha	M	20	BSSE	Active	
MANIRAGUHA JOSEPH	M	25	NTC	Active	
Lamin Manneh	M	29	Bachelor	Active	

THE STAFF

Move the mouse here to PAUSE the slide

- 1» jackson
- 2» IT WORKS
- 3» kananura
- 4» sebdir
- 5» lydia
- 6» RIMA

STUDENTS

- 4» NANI lous
- 5» JAC romeo
- 6» FRED john
- 7» rebecca me
- 8» Bintou Fatty

6.8 SCHOOL CLUBS

Home Update View records School Clubs Parents Veiv calender

DAY REGISTERED	NAME	SEX	CLUB NAME
2013-07-22	cubed tevvez	M	WILD LIFE
2013-07-13	herbert samz	M	FOOTBALL
2013-07-04	NANI lous	F	WILD LIFE
2013-07-04	FRED john	F	TASO
2013-06-14	herbert samz	M	SCOUT CLUB
2013-06-14	NANI lous	F	TASO
2013-06-14	cubed tevvez	M	TASO
2013-06-14	jackson hreb	M	WILD LIFE
2013-06-14	JAC romeo	F	SCOUT CLUB
2013-06-14	herbert samz	M	WILD LIFE

THE STAFF

Move the mouse here to PAUSE the slide

- 1» jackson
- 2» IT WORKS
- 3» kananura
- 4» sebdir
- 5» lydia

STUDENTS

- 3» herbert samz
- 4» NANI lous
- 5» JAC romeo
- 6» FRED john
- 7» rebecca me
- 8» Bintou Fatty

6.9 VIEW CALENDAR

The screenshot shows a web application interface with a dark theme. At the top, there is a navigation bar with links: Home, Update, View records, School Clubs, and View calendar. A search box is visible on the right side of the navigation bar. The main content area is divided into two sections. The left section displays a calendar for November 2016. The calendar has a header with navigation arrows (<< and >>) and the text "Switching calendar" and "NOVEMBER - 2016". The days of the week are listed in the first row: MON, TUE, WED, THU, FRI, SAT, SUN. The dates 1 through 30 are arranged in a grid. Below the calendar is an "Ok" button. The right section is a sidebar with two main categories: "THE STAFF" and "STUDENTS". Each category has a decorative leaf icon and a list of names with right-pointing arrows. Under "THE STAFF", the names are Jackson, IT WORKS, and Kananura. Under "STUDENTS", the names are FRED JOHN, rebecca me, and Bintou Fatty. A note above the staff list says "Move the mouse here to PAUSE the slide".

Switching calendar						
NOVEMBER - 2016						
MON	TUE	WED	THU	FRI	SAT	SUN
	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				

Ok

THE STAFF

Move the mouse here to PAUSE the slide

- » Jackson
- » IT WORKS
- » Kananura

STUDENTS

- » FRED JOHN
- » rebecca me
- » Bintou Fatty

6.10 TEACHER LOGIN FORM

The screenshot shows a login interface with a dark background. On the left, there is a "WELCOME TO ADMIN LOGIN PANEL" message and a sub-message "LOGIN TO MONITOR STUDENTS AND SCHOOL OPERATIONS". Below this is a login panel containing a small icon of a person in a yellow shirt, a label "Access Type:" followed by a dropdown menu, and input fields for "username" and "password". There are "login" and "Cancel" buttons at the bottom of the panel. On the right, there is an image of a desktop computer system (monitor, tower, keyboard, mouse) with a text overlay that reads "School Webtech Do U tasks from here. Easy, quick and reliable".

WELCOME TO ADMIN LOGIN PANEL
LOGIN TO MONITOR STUDENTS AND SCHOOL OPERATIONS

Access Type :

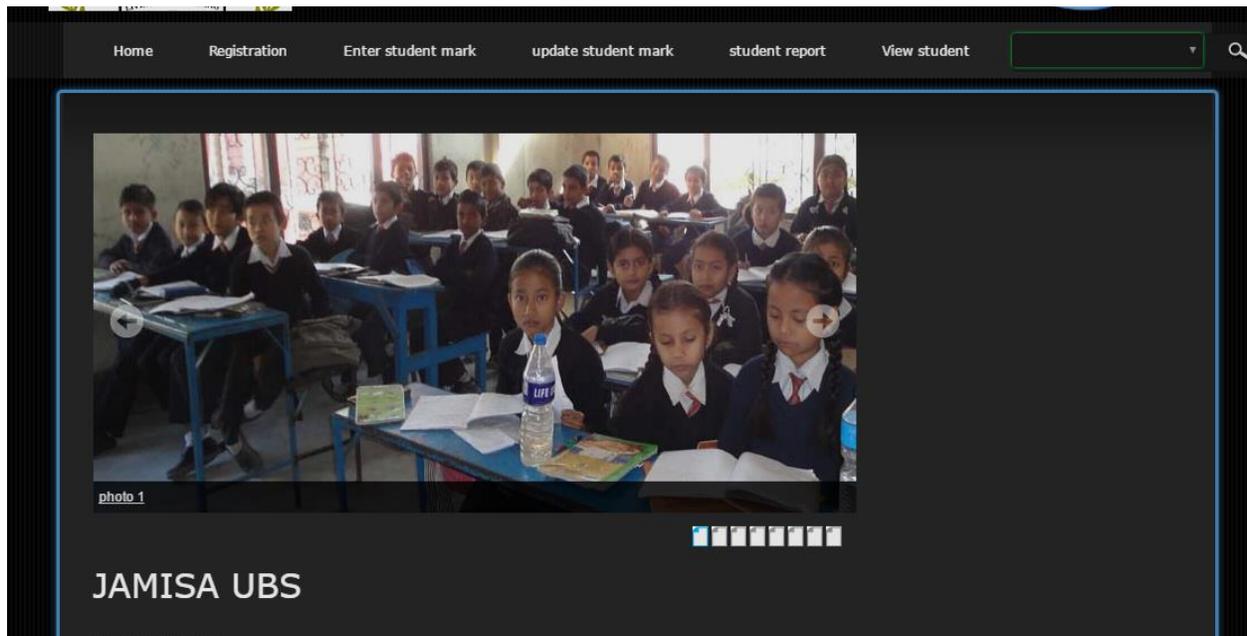
username

password

login Cancel

School Webtech
Do U tasks from here.
Easy, quick and reliable

6.11 TEACHER HOME PAGE



6.12 TEACHER ENTER STD MARKS

The screenshot shows the Teacher Enter Student Marks form. At the top, there is a navigation menu with the following items: Home, Register, Enter student mark, update student mark, student report, and Grading. A search bar is located on the right side of the menu. Below the menu is a form with the following fields:

- studentm
- Name: Hint: press the first letter of name until you get the one you are looking for
- YEAR:
- TERM:
- subjectcode:
- test:
- exam:
- teacher name:

At the bottom of the form, there are two buttons: SEND and cancel.

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6.13 TEACHER GENERATE REPORT

Home Register Enter student mark update student mark student report Grading

report

Student:

year: 2011 1stTERM

 **KISORO VISION SECONADRY SCHOOL**
P.O BOX 302, KISORO
REPORT CARD
STUDENT's FULL NAME: cubed tevvez 

SUBJECT	TEST	EXAM	AVERAGE	TEACHER
AGRICULTURE	45	80	62.5	YH
ENGLISH	23	23	23	Daniel
TOTAL	68	103	85.5	
AVERAGE	34	51.5	42.75	
AGGREGATES	18 in 0	17 in 3		

6.14 TEACHER UPDATE STUDENT MARKS

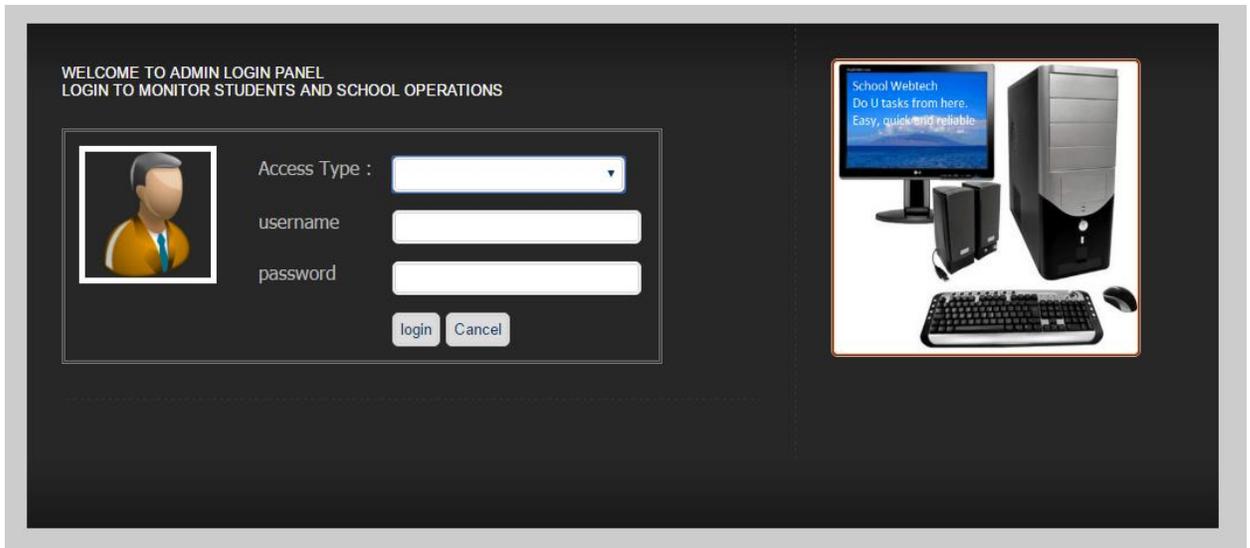
Home Register Enter student mark update student mark student report Grading

students

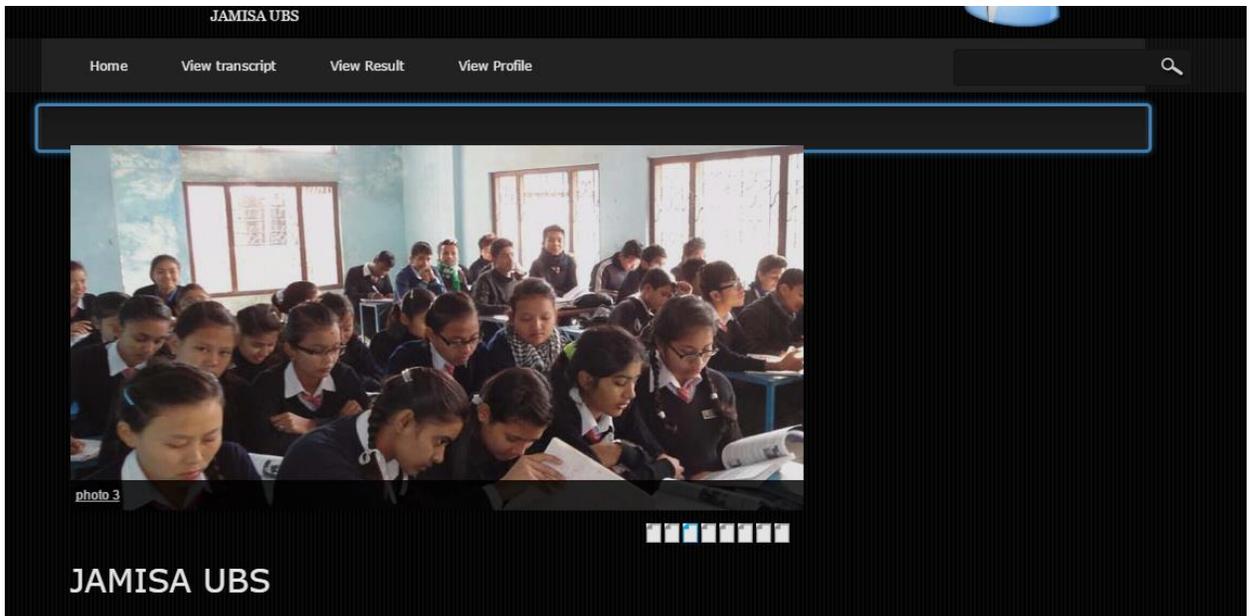
subject code: Student Full Name:

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6.15 STUDENT LOGIN



6.16 STUDENT HOME PAGE



6.17 STUDENT PAYMENT

The screenshot displays a student payment management system. The main area contains a table with the following columns: NAMES, CLASS, TERM, YEAR, AMOUNT PAID, DUES, BALANCE, DATE OF PAY, and ACTION. The table lists various students and their payment details. To the right, there are two sidebars: 'THE STAFF' and 'STUDENTS', each with a list of names and a search icon.

NAMES	CLASS	TERM	YEAR	AMOUNT PAID	DUES	BALANCE	DATE OF PAY	ACTION
Bintou Fatty	SENIOR TWO	SECOND TERM	2013	2000	2000	-2000	2016-11-07	[Action Icons]
maniraguha	SENIOR FIVE	SECOND TERM	2013	7000	-1000	1000	2013-08-08	[Action Icons]
Gideon	SENIOR ONE	FIRST TERM	2013	2500	2500	-2500	2013-08-07	[Action Icons]
rebecca me	SENIOR ONE	FIRST TERM	2011	700	-200	200	2013-07-24	[Action Icons]
ONYANGO	SENIOR THREE	SECOND TERM	2013	5000000	-4800000	4800000	2013-07-24	[Action Icons]
herbert samz	SENIOR FIVE	SECOND TERM	2013	3000	27000	-27000	2013-07-23	[Action Icons]
safi	SENIOR THREE	SECOND TERM	2013	0	600	1900	2013-07-23	[Action Icons]
NANI lous	SENIOR THREE	SECOND TERM	2014	2500	2500	-2500	2013-07-23	[Action Icons]
FRED john	SENIOR TWO	FIRST TERM	2011	400	100	-100	2013-07-23	[Action Icons]
jackson hreb	SENIOR ONE	FIRST TERM	2011	5000	0	0	2013-07-22	[Action Icons]
cubed tevvez	SENIOR THREE	THIRD TERM	2013	34000	266000	-266000	2013-07-20	[Action Icons]

THE STAFF

- kananura
- sebdir
- lydia
- RIMA
- NGOBI DANIEL
- mugisha
- MANIRAGUHA JOSEPH
- Lamin Manneh

STUDENTS

- Jackson hreb
- cubed tevvez
- herbert samz
- ALANT...

6.18 STUDENT REPORT CARD

Home Update View records School Clubs Parents View calendar

Student:

year: 2011 1stTERM



JAMISA UPPER BASIC SCHOOL
P.O BOX 302, BRIKAMA
REPORT CARD
STUDENT's FULL NAME: jackson hreb



SUBJECT	TEST	EXAM	AVERAGE	TEACHER
AGRICULTURE	77	80	78.5	YH
ART	49	100	74.5	AA
ENGLISH	100	100	100	ZZ
FRENCH	56	72	64	KJ
LITERATURE	67	90	78.5	SJ
MATHEMATICS	88	90	89	KJ
PHYSICS	88	66	77	JH
TOTAL	525	598	561.5	
AVERAGE	75	85.428571428571	80.214285714286	
AGGREGATES	25 in 7	13 in 7		

THE STAFF

Move the mouse here to PAUSE the slide

- > Jackson
- > IT WORKS
- > kananura
- > sebdir
- > lydia
- > RIMA
- > NGOBI DANIEL

STUDENTS

- > rebecca me
- > Bintou Fatty

6.19 ACCOUNTANT LOGIN FORM

WELCOME TO ADMIN LOGIN PANEL
 LOGIN TO MONITOR STUDENTS AND SCHOOL OPERATIONS



Access Type :

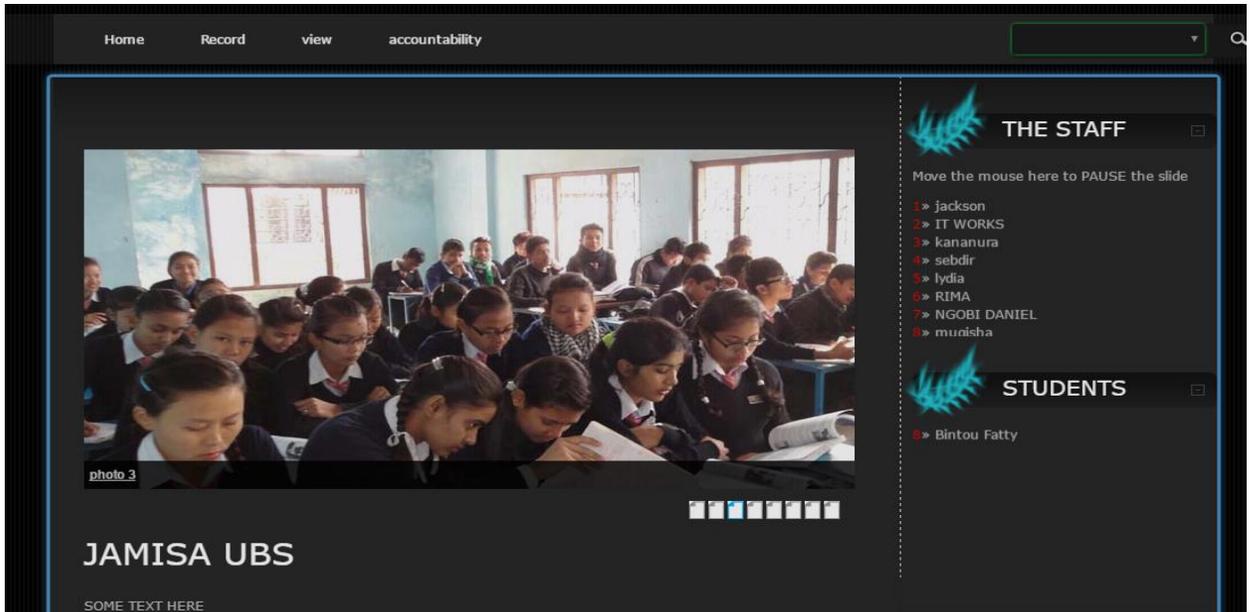
username

password

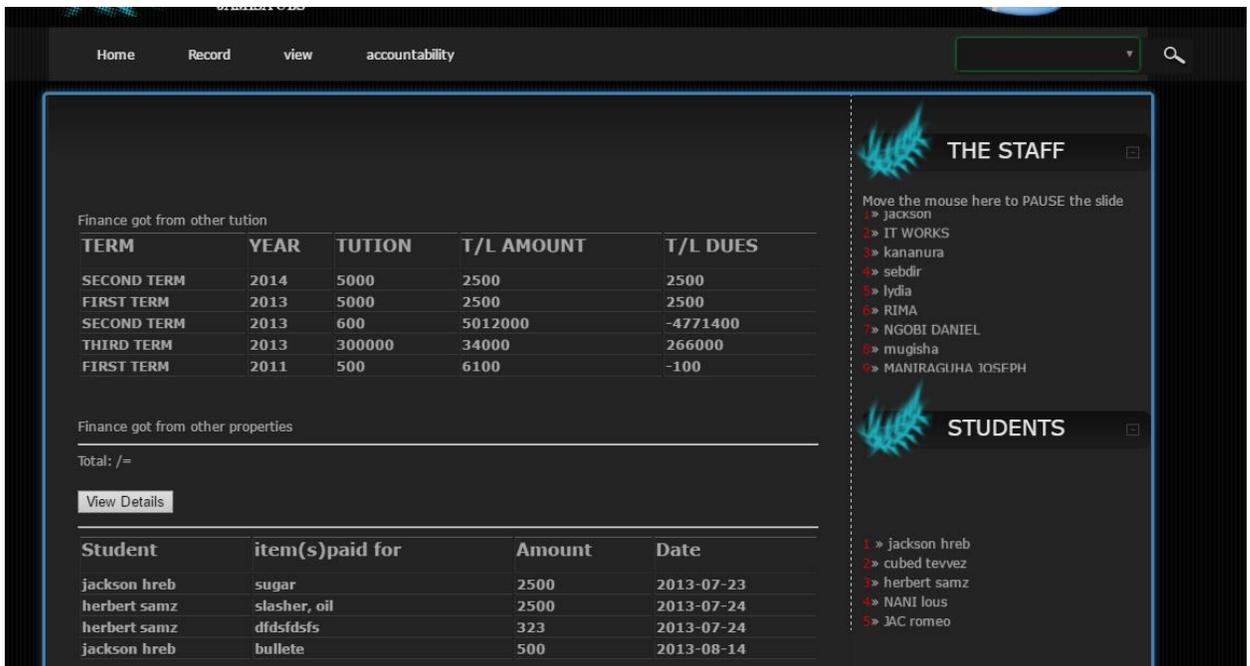


School Webtech
 Do U tasks from here.
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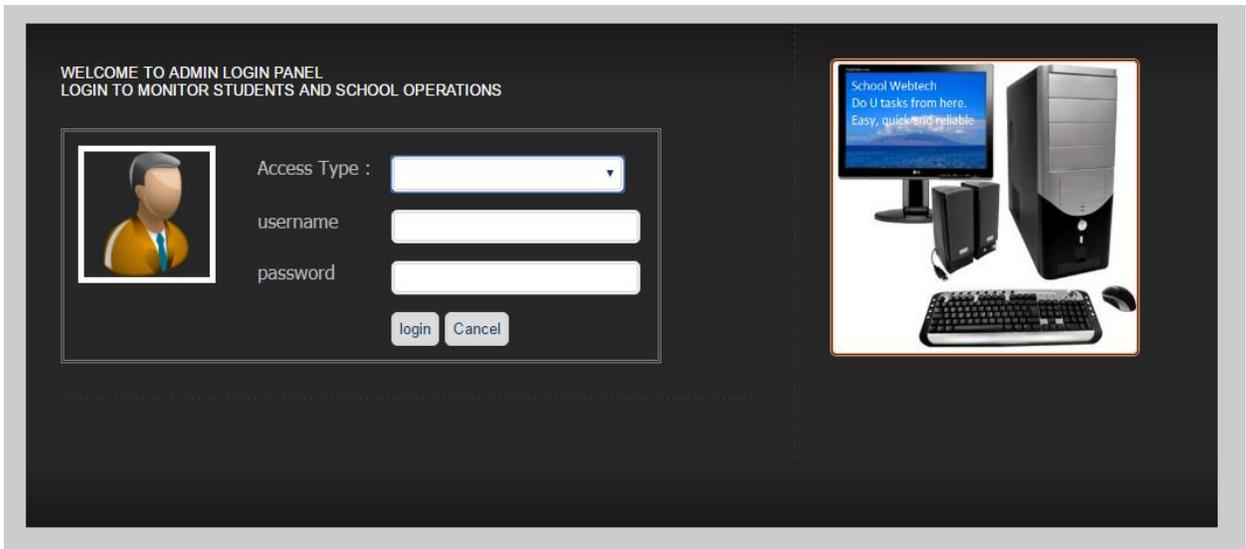
6.20 ACCOUNTANT HOME PAGE



6.21 ACCOUNTABILITY



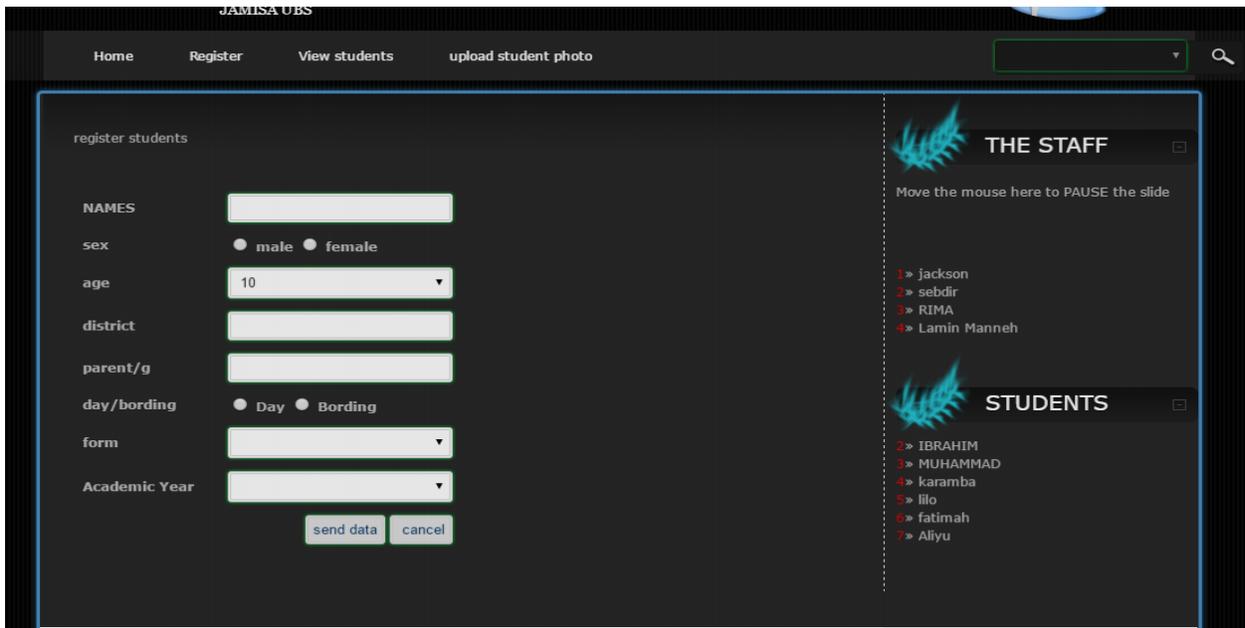
6.22 SECTARY LOGIN FORM



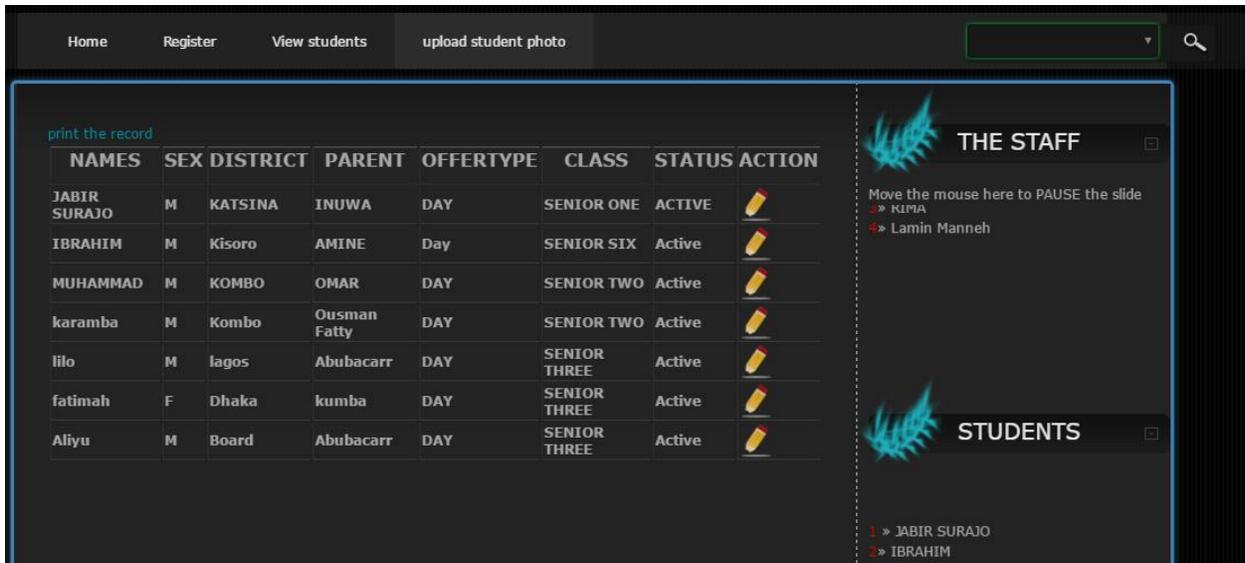
6.23 SECTARY HOME PAGE



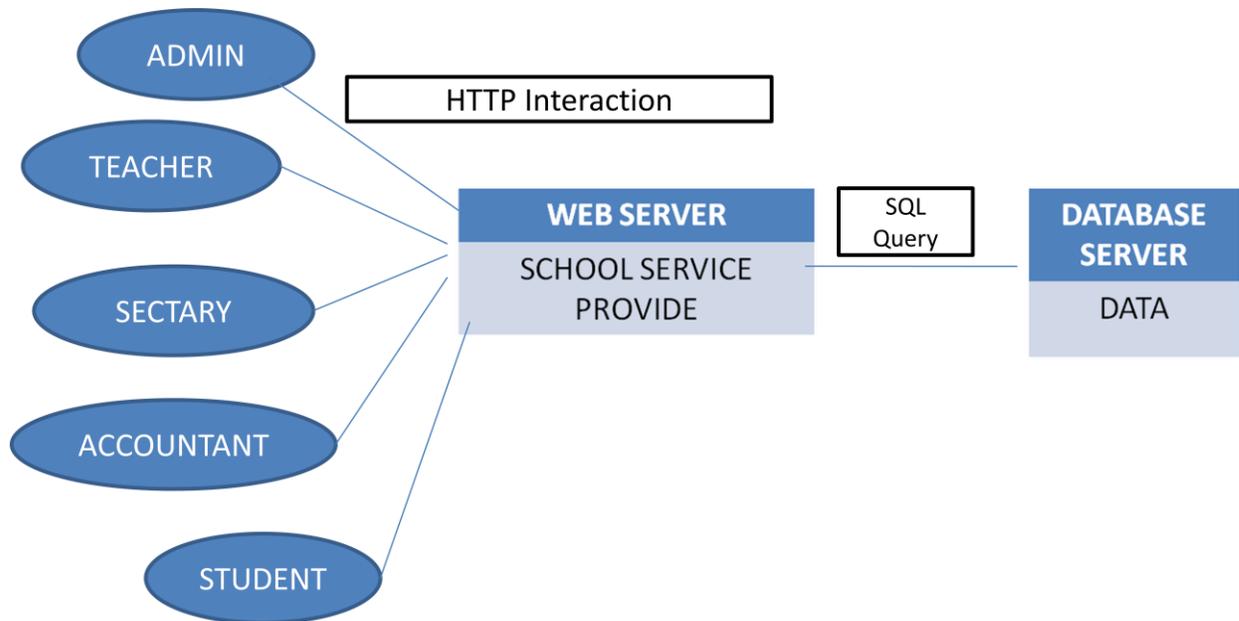
6.24 SECTARY REGISTER NEW STUDENT



6.25 SECTARY VIEW STUDENTS



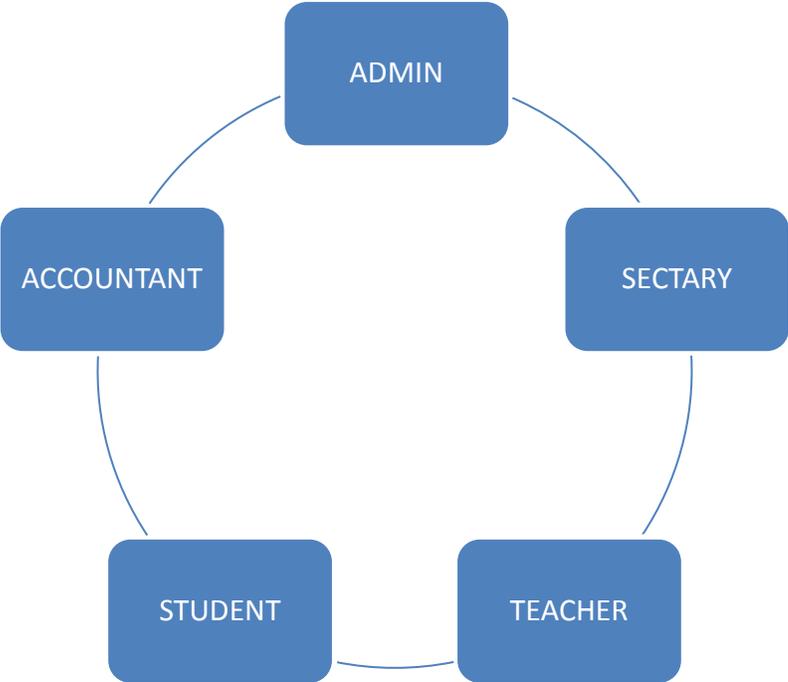
6.26 ARCHITECTURE OF THE SYSTEM



6.27 Benefits

- Effective communication between teachers and students
- Complete automation of all operations
- Centrally stored information with zero redundancy
- Frequent interaction with teachers
- Reliable update on child's marks, progress report and fee payment.
- Computerized management of marks and grades

6.28 A COMPLETELY KAJ LIFE CYCLE



CHAPTER 7

Evaluation and Conclusion

7.1 EVALUATION OF THE PROJECT OBJECTIVES

Evolution processes are multi-level, multi-loop, multi-agent feedback systems. This phase is basically based on the client what they want to update in the software. In the project evaluation the main thing is how the project will work in the client-side or server-side, and how much better performance in the system. The project is web based application so it will be do proper work in the client side and properly interact with the hardware.

Steps to Evaluate

- ✓ Install the software on a clean system.
- ✓ Check for proper operation of software.
- ✓ Check for php file conflicts.
- ✓ Check for registry entry problems.
- ✓ Check for file conflicts.
- ✓ Create Application item.
- ✓ Push application to test station and check for proper operation.

After performing all the above steps, it is justified as project has been implemented successfully.

The KAJ SECONDARY SCHOOL website is a new system which has to be run to see whether it works efficiently and perfectly. After running it for a few days we are now sure that the new system's purpose is maintained. Software evaluation and selection can become an innovative issue by some measures and considerations. We are therefore satisfied with the way that the KAJ SECONDARY SCHOOL website is working and addressing the needs of users (Students and Staffs) in many ways.

We are satisfied with the following objectives that have been achieved:

- The system contains various types of user-defined checking methods like data duplicity, integrity, and inconsistency.
- The system checks each and every data being input by performing the above-mentioned methods.
- The system is capable to show alert, confirmation, information messages to the user as per requirements.
- The site has an attractive, flexible and efficient interface.
- Now for the primary version we have designed the website efficiently, aesthetically appealing and given it all the flexibility it requires. We have emphasized on function rather than just designing attractive interfaces.
- Generating errors- the minimum error generated by a system is clearly defined by the system and our system also fulfills this criterion.
- Stimulation- the experience of working in a team made us to perform better and have more enthusiasm to work even harder.
- Learning- we all acquired new knowledge and insights from each other and this has helped us enormously in realizing our work in time and with no major hitches.

7.2 EVALUATION BY REAL USERS

During the last decade, the use of an assortment of usability inspection methods has become prevalent as project schedule become shorter and budgets become tighter. In general, the expense and effort involved in testing the real end users has been viewed by the development of KAJ SECONDARY SCHOOL website as independence to software development.

To find out how well the system works a questionnaire was created by us during the running and testing phases of the website development. The questionnaire has been designed in an easy way so that the participating users can answer them only by writing the points into the answer sheet. From the answers, we would be able to judge if the proposed system has been up to the desired standard or there are still any functional lapses and lacunae in it.

Some of the Questions we asked the real end users include among others:

- I. How do you assess the amenities provided by the website?
- II. Do you find the modalities of accessing the website user-friendly enough?
- III. Does the website satisfy all the needs and requirements you have initially specified?
- IV. What else do you think should be added to the website?

So far, the evaluation by the real end users has attained a very satisfactory level after so many rounds of adjustments, modifications and improvements in the initial friendly and dynamic in all its functional aspects.

7.3 PROBLEMS FACED DURING SYSTEM IMPLEMENTATION

The problems we faced while implementing the project started right from the design of the architecture of the website itself. These include among others:

- Complexities and difficulties related to prototyping, gathering of user requirements and adjusting the website according to their changing needs.
- Integrating the difficulties modules of the website also turned out to be a very challenging task during our work.
- Then came to the problem of coding where we faced numerous syntax errors related to the various programming languages we used.

7.4 SYSTEM SECURITY

Security is one of the most aspects that focused during the development of our website; there are several threads we're able to exposed them and used concrete solution that our website is secured.

7.4.1 SQL Injection

SQL injection attacks are extremely simple to defend against, but many applications are still vulnerable. Consider the following SQL statement:

For example, depending on the database you are using, it might be possible to send multiple queries to the database server in a single call. Thus, a user can potentially terminate the existing query with a semicolon and follow this with a query of the user's choosing.

MySQL, until recently, does not allow multiple queries, so this particular risk is mitigated. Newer versions of MySQL allow multiple queries, but the corresponding PHP extension (ext/mysqli) requires that you use a separate function if you want to send multiple queries

(`mysqli_multi_query ()` instead of `mysqli_query ()`). Only allowing a single query is safer, because it limits what an attacker can potentially do.

Protecting against SQL injection is easy:

Data Filtering:

This cannot be overstressed. With good data filtering in place, most security concerns are mitigated, and some are practically eliminated.

Quote your data.

If your database allows it (MySQL does), put a single quote around all values in your SQL statements, regardless of the data type.

Escape your data.

Sometimes valid data can unintentionally interfere with the format of the SQL statement itself. Use `mysql_escape_string ()` or an escaping function native to your particular database. If there isn't a specific one, `addslashes ()` is a good last resort.

7.4.2 Session Hijacking

Arguably the most common session attack, session hijacking refers to all attacks that attempt to gain access to another user's session.

As with session fixation, if your session mechanism only consists of `session start()`, you are vulnerable, although the exploit isn't as simple.

Rather than focusing on how to keep the session identifier from being captured, we are going to focus on how to make such a capture less problematic. The goal is to complicate impersonation, since every complication increases security. To do this, we will examine the steps necessary to successfully hijack a session. In each scenario, we will assume that the session identifiers have been compromised.

With the most simplistic session mechanism, a valid session identifier is all that is needed to successfully hijack a session. In order to improve this, we need to see if there is anything extra in an HTTP request that we use for extra identification.

7.4.3 Validation

One of the most important part of the security system is not allowing garbage data to be stored inside the database, to that we need to validate each data that user may provide during either login or making complain we use two ways to do that by using server side and client side validations.

7.4.3.1 Client Side Validation

When we start out validation, we want to make it as easy as possible for the user to fix the problem with the least additional load on our servers. This leans towards doing the client –side validation first, then server-side later if we have time. Client-side validation is faster, typically looks prettier, often has better association between messages and inputs, and just generally looks like the better choice from the product owner or customer perspective.

7.4.3.2 Server Side Validation

Why we use the server side validation between a user may try to turn off his JavaScript on the browser which will make our website vulnerable to some attackers in other to have a solid security system we need a backend where user has no authority in changing the security system. Server side validation is very important.

7.5 Future Scope of the Project

Future work is what we intend to do in future to improve on our website, make it more modern and integrate some of the most recent technologies that would have evolved by then. These future plans among others include:

- Presently the website is used for primary school students but in future it can be utilized for middle school, high school and colleges by some minor modifications.
- Database may be available in future for long times and information may be use anytime.
- SMS facility in future
- Use of Advanced security system: Security is a big issue in all online project especially in social networking sites where privacy of individuals need to be kept confidential. We intend to use higher levels of security in future to keep private message secret and to protect the profile information of our members from theft.

- Greater user friendliness: It must be easily accessible, more flexible and very easy to use even by non-computer literates.
- More powerful database like Oracle will be used in future.

CONCLUSION

The conclusion of “KAJ SECONDARY SCHOOL” is to construct such dynamic website which will provide information about school activities such as exam results, student forum, important notices and dignitary messages.

Towards the end of the KAJ SECONDARY SCHOOL project, I would like to say that the target, which was initially set up, was achieved to a good extent. The project made me realise the significance of developing software for client, where the sole aim is to learn.

During the KAJ SECONDARY SCHOOL project, the real importance for following all principle of system analysis and design dawned on me. I felt the necessity of going through the several stages.

As we done the initial investigation, now we can say that this application possible to create. But as project will progress there may some change in functionality of the project.

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5. <http://forums.asp.net>