

**FINAL YEAR PROJECT REPORT ON SCHOOL360**

**BY**

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This Report Presented in Partial Fulfillment of the Requirements  
for the Degree of Bachelor of Science in Computer Science and  
Engineering.

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**DAFFODIL INTERNATIONAL UNIVERSITY**

**DHAKA, BANGLADESH**

**DECEMBER 2019**

## APPROVAL

This Project/internship titled “School360 (A Complete School, College, Madrasah, Coaching Centre Management System)”, submitted by Sazzadur Rahman, ID No: 153-15-6418 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 05-12-2019.

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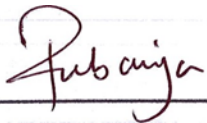
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**External Examiner**

## DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Rubaiya Hafiz, Senior Lecturer, Department of CSE Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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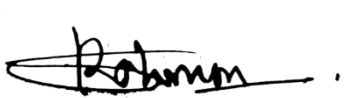
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We would like to thank our entire course mate in Daffodil International University, who took part in this discuss while completing the course work.

Finally, we must acknowledge with due respect the constant support and patience of our parents.

## **ABSTRACT**

This project titled “**School360 - A Complete School, College, Madrasah, Coaching Center Management System**” which can help the School, College, Madrasah, Coaching Center management to maintain their all activities. School360 is a large database system which can be used for managing your school's day to day business. School360 allows users to store almost all of their school's information electronically, including information on students, properties, teaching meteorites etc. Most importantly, this information can be easily shared with authorized users, records can be easily searched, and reports can be easily generated. School360 is software which is helpful for students as well as the school authorities. In the current system all the activities are done manually. It is very time consuming and costly.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Introduction

It is a system developed mainly for educational institutes. A simple yet effective management system which is capable of handling large number of data, thus it's a large database management system. It is hosted on the internet which allows it to be flexible for multiple users. And the users can handle all of their required tasks at ease. The tasks vary from dealing with the teachers and students' information from fees to their results respectively, and all of these are done by the system itself.

### 1.2 Motivation

Almost all the educational institutes tend to do their work manually where it comes to maintaining the institutes. This is one of the main reason time is wasted. Retrieving data of past years can be of a lot of hassle. Whereas the entire process can be done within minutes with the management system. The system will not only save time but will also provide outcomes with human error.

### 1.3 Objectives

To bring the information easily accessible and usable by teachers, students and even parents. To let both sides know what goes in the backend calculative data and results can be acquired fast with less error rate. Making sure the attendance is not tedious and the parents are informed about the students missing their classes.

### 1.4 Expected Outcome

To develop a system, which is mainly web-based, which can be easily used by educational institutes. Time is key in day to day life. And using this system, time will be saved. And most of the processes that were long, tedious and error-prone will now become quite easy for the mass group of people of the institutes.

- To develop and maintain student and teacher profile

- To prepare ID Card, admit card, seat plan, automatic result generation and Mark sheet print
- School360 provide attendance record keeping, text SMS notification to parents
- To get different reports according to the school's requirement
- To allow transparency with both the teachers, schools and parents.
- To introduce a system which can replace the traditional bell system
- To manage the fees to be paid by the students
- To maintain the websites of the institute

## **1.5 Report Layout**

In this report partially overview of School360. I describe all modules of School360. First chapter describe introduction, motivation and objective of this project. Another chapter two describe the product and market solution, services. Again, another chapter three describe requirements specification and use case model. I disclose how to solve the problem and what I use to implement the software. In chapter four describe design specification, implementation plan, database design and layout design.

## **CHAPTER 2 BACKGROUND**

In the following chapter, we discuss about the necessary tools we used in the project. Also, we talk about the project that were done before previously on such similar topics. Furthermore, we will discuss about the features which will be added to our project in the near future and what difficulties we are facing along the way.

### **2.1 Introduction**

The project is based on a web application, it runs on a web server (Apache). The system was developed by using different tools, for this, we used, PhPStorm, Atom ide and for managing the database, we used SqlYog. For the language of the code, we used a framework of PHP (CodeIgniter Framework), we used HTML, CSS, JAVASCRIPT, jQuery. We used MYSQL for queries on the database and we used WAMP SERVER as our Database Server.

### **Target Audience and benefits**

This product is basically on school management system. Administrative staff, teacher & student of a school can uses this application via web protocol. Student can check register themselves, check their results and update their profile. They also can view their class routine and related resources from this Web application. Teacher can register themselves on this site. they can update & publish students result. They can update their profile. Teacher can apply for their leave by using online leave application. Administrative Staff can add or remove teacher and student from database via this application. They also can register themselves. 2,000 users can use this. It is completely free of cost. All school can use this application.

### **Benefits to Customer**

It reduces effort to maintain data in an effective manner. Teacher can easily see the status and progress of the students. Student can see gets information when they need by simply accessing the site. Data management system is much easier in this way because there is no way to loss/theft of data.

## **2.2 Related Works**

A company named netizen has a system which deals with all the similar features. Including attendance marksheet, progress report, payroll, etc. It's an educational institute management system which allow the teacher students and parents to be connected. Only assigned people with credentials can access the information.

## **2.3 Comparative Studies**

In comparison to the existing system and our system, it varies from the core of the system. Its architecture. In a database management system, data is everything. And if anything goes wrong there, the system will be in jeopardy. And we have made sure that if such case arises due to excess load on the database, we can handle it. We tested out system by overloading it with data requests and it works fine.

## **2.4 Scope of the Problem**

School360 is for the teachers, students, parents and all the people involved here. Acquiring data at faster and easier way will be a massive help for all the parties involved. A system easily usable by people with little or no guidance can come in handy at times of requirement. The application provides a great deal of security to the data it acquires.

## **2.5 Challenges**

Problems will come when start implementing a school management system-

- Cost effectiveness of computer hardware and software
- Independent attendance device and Infrastructure
- Good internet
- ICT skilled personnel
- Lack of specific and Inadequate availability of relevant software
- Lack of maintenance service culture
- Constant Electricity

# CHAPTER 3 REQUIREMENT SPECIFICATION

## 3.1 Business Process Modeling

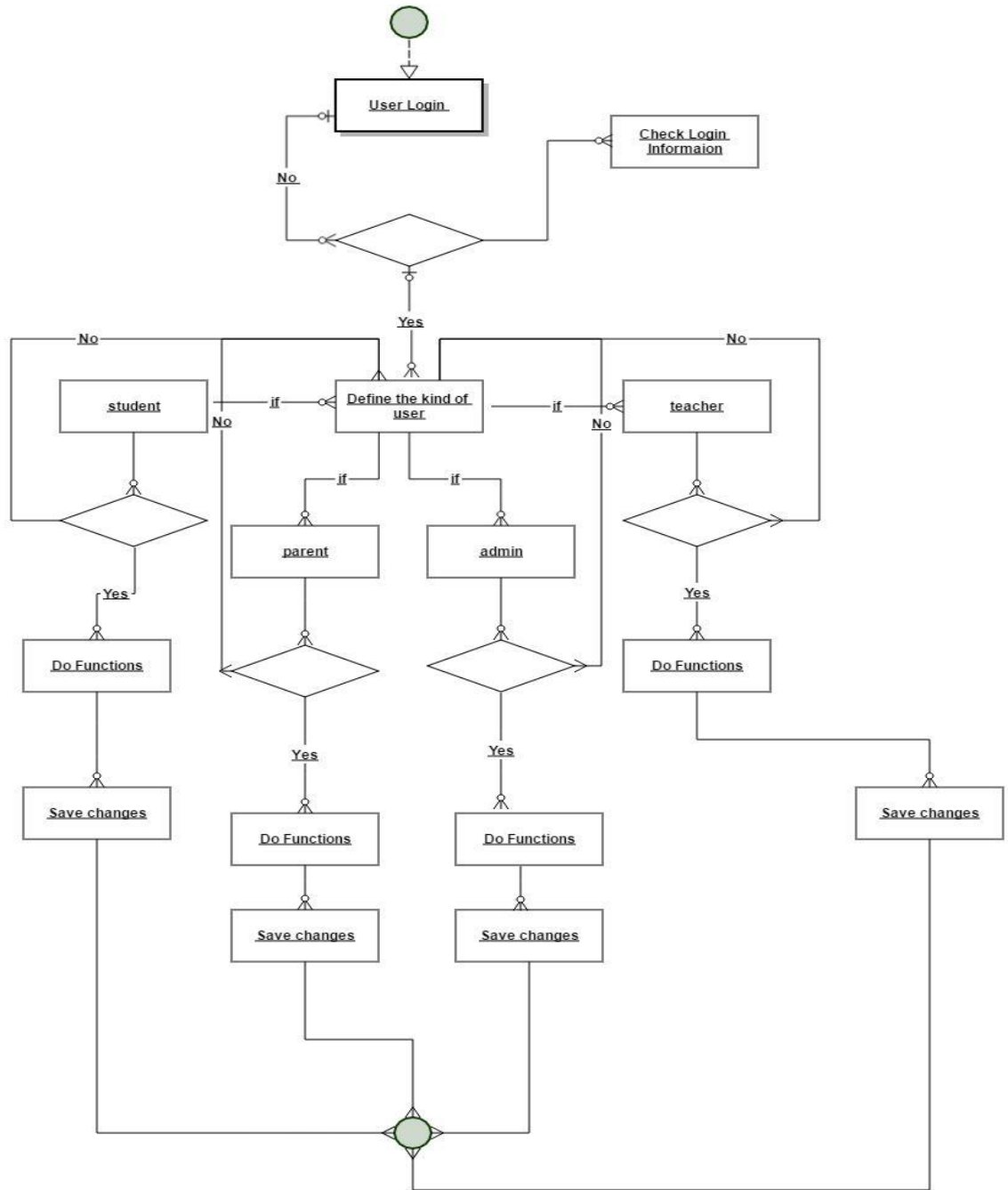


Figure 1: Business process modeling

## 3.2 Requirement Collection and Analysis

### Functional Requirement

In this application the teacher and students will register themselves. In this application, students will check their results and update their profile. Student will view their attendance. Teacher will publish and update students result. They will update their profile. Teacher will send their leave application by this application. Administrative staff will add, remove and update teacher and student database via this application.

### Non-Functional Requirements

This application will run on common browsers. They will not change the Customizations of fonts and colors of the web application. This application will run on 24 \* 7 monitoring. Teachers and students will access this application Through their username and password. Administrative staff will have to Access their functions no one cannot access administrative functions. Use strong passwords for all accounts.

### Environmental Requirements

- MS Visio – a design program, its use for analysis and diagram design.
- MySQL School360 used is MySQL. It's free and open source.
- Apache: We have used Apache server for our software
- PHP: For server-side development we used PHP
- SQLYog: A client desktop application to create, edit and delete database, table, view etc. in MySQL database server
- Simple test: Used for unit testing.
- Netbeans, and integrated development environment used for the project.

### Requirements Collection and Analysis

We used some school concern person for our software's Requirements Collection. They provide their need and we develop step by step.

- Languages for development
  - PHP(CodeIgniter MVC framework)
  - HTML for Font end design
  - CSS for Font end design

- jQuery
- JavaScript
- MySQL
- Used Development IDE
  - Atom
  - PhpStorm
  - SqlYog for database manage
- Used Hardware
  - Computer
  - Biometric Attendance Device
  - Sound Box

### **Analysis**

My project's main objective is to be a School Management System, where it will contain all the necessary features to manage students, teachers and the data. The system will look after the day to day administration service provided by the school. The part that makes this project astonishing is that it can seamlessly run for schools, colleges and also University. It recues the manual paperwork's done by an institute and gets all its user under one platform where their required data is almost always, readily available. And using this, it will make life a lot easier and get the job done faster.



### 3.3 Use Case Modeling and Description

After admin login, they can add single student or bulk student using excel, add teacher. Admin can configure class, class wise subject, upload routine for website and admin also can set or reset password for parents for student and parents.

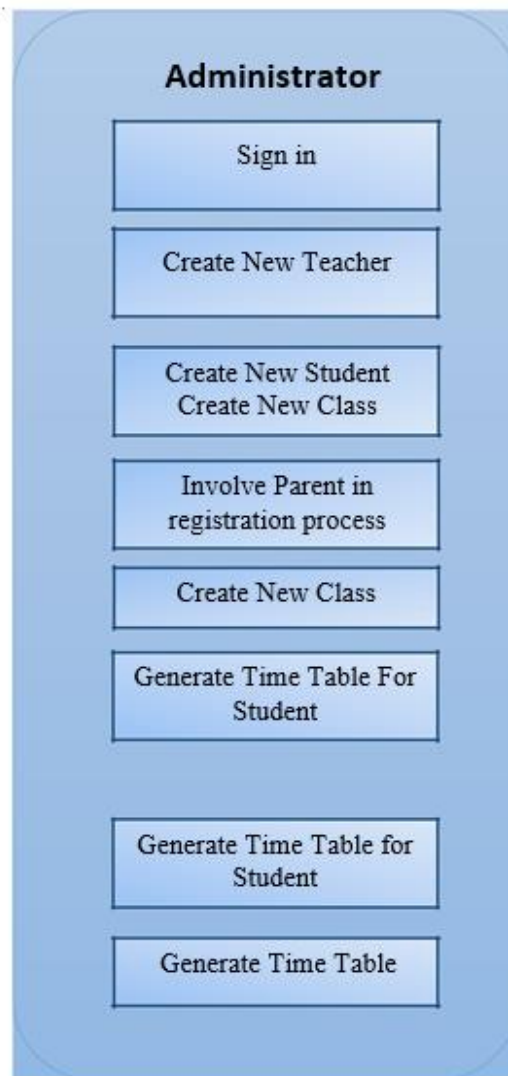


Figure 2: Use Case Model Activity for Admin

Firstly, student login this system using valid user name and password. After successfully login student can see him/her profile and view their time table. They can open their all marksheet and attendance report.

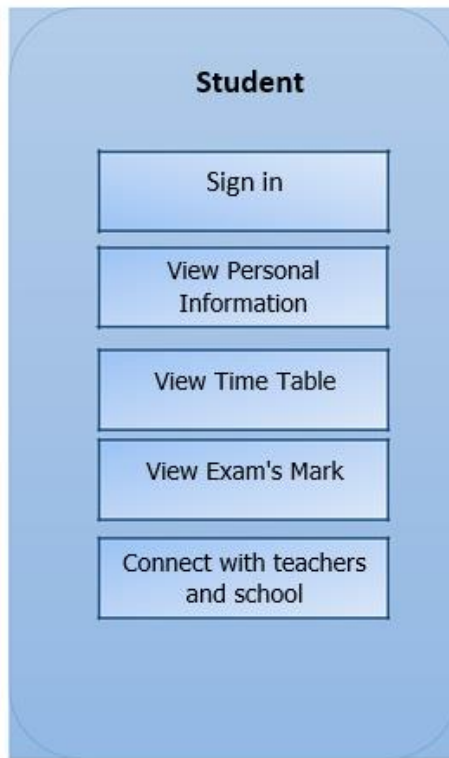


Figure 3: Use Case Model Activity for Student

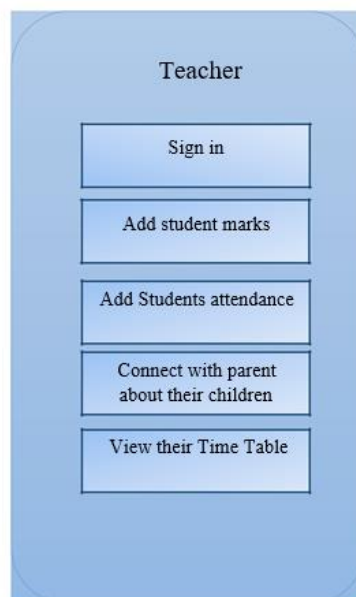


Figure 4: Use Case Model Activity for Teacher

After login teacher can input exam mark for on his class and they can input attendance information for students. Teacher also see their class routine.

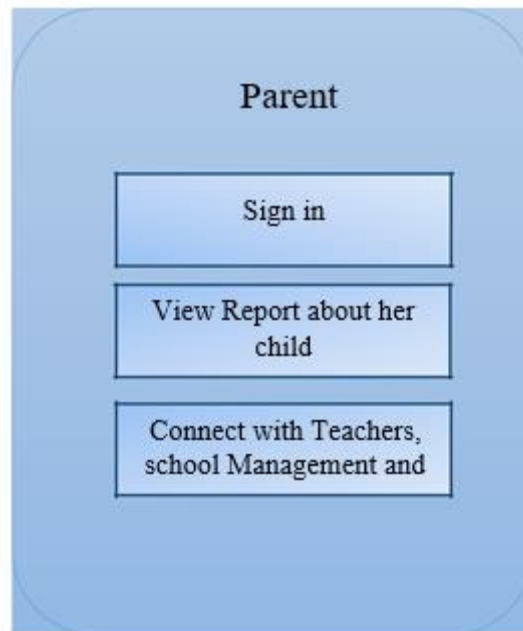


Figure 5: Use Case Model Activity for Parent

If login a parent they can see their child any type of report (like: exam, fees and attendance). We try to develop connectivity between parents and teachers.

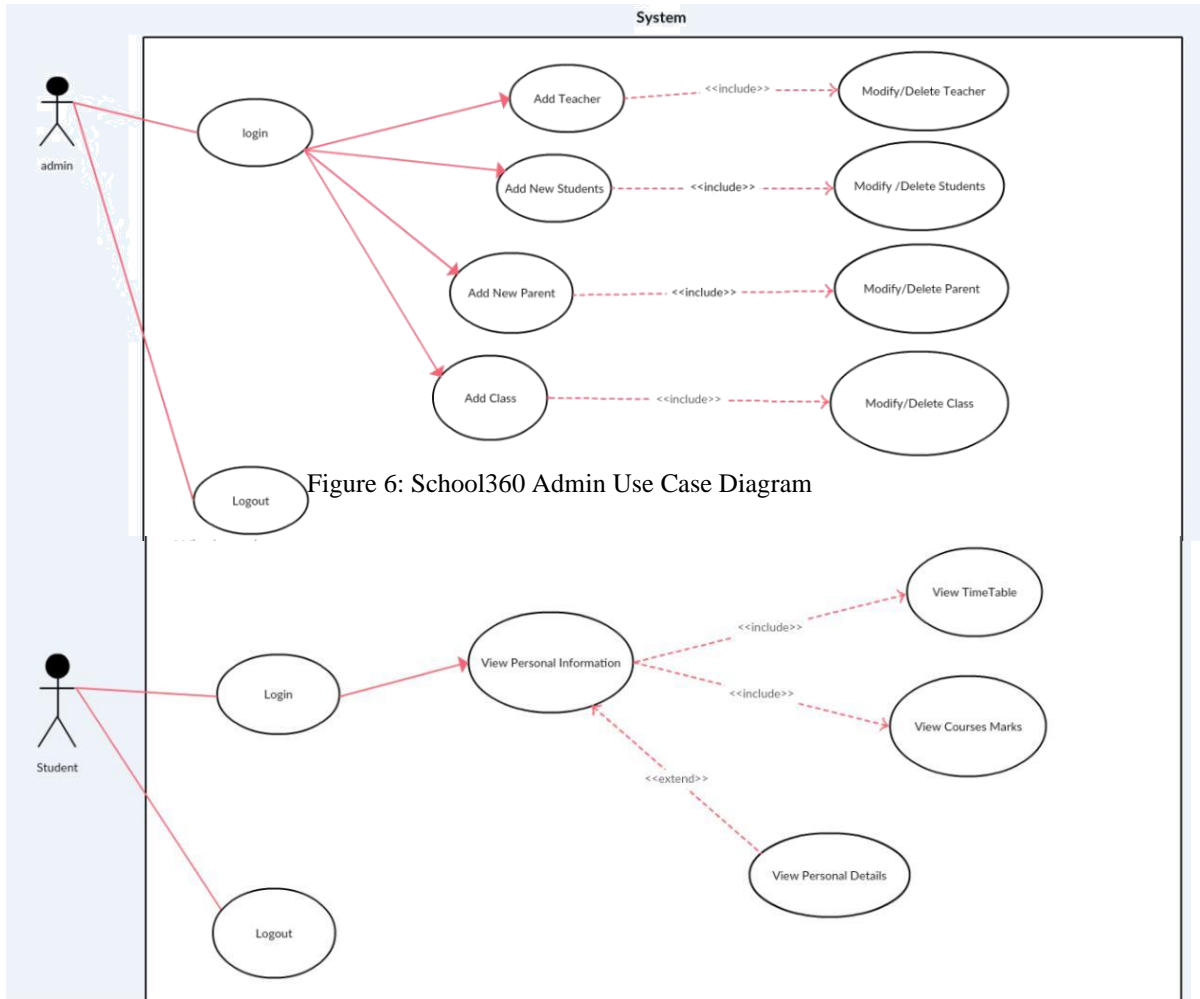


Figure 6: School360 Admin Use Case Diagram

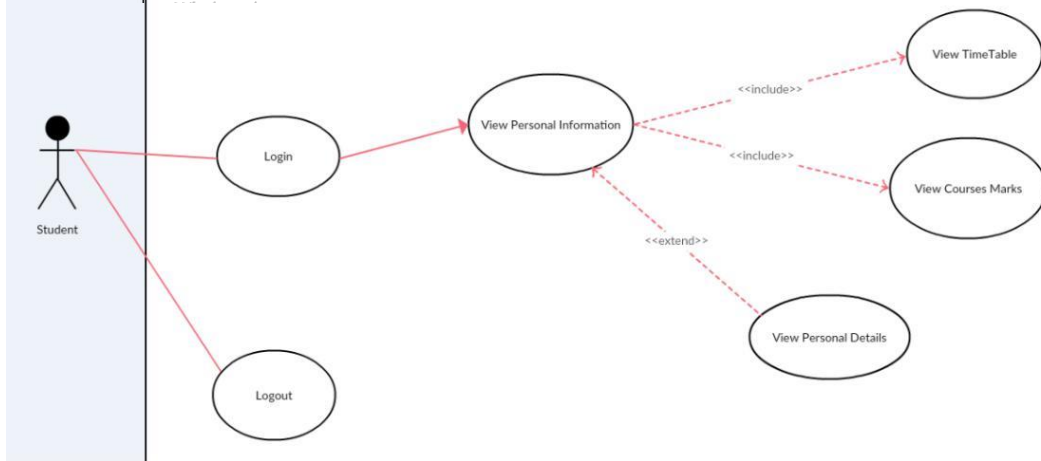


Figure 7: School360 Student Use Case Diagram

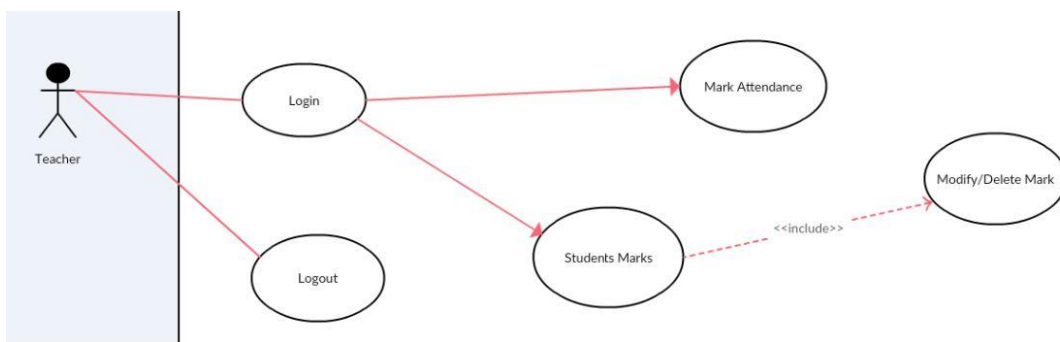


Figure 8: School360 Teacher Use Case Diagram

### 3.4 Logical Data Model

#### Data Flow Diagram (DFD)

The term DFD refers to Data Flow Diagram. Its representation of data objects presents in a system by showing in figures. This show a visual flow chart of how the data is processed in a system. The representation shows how data moves in each stage. It also indicates the movement and state of data moving from the input to output.

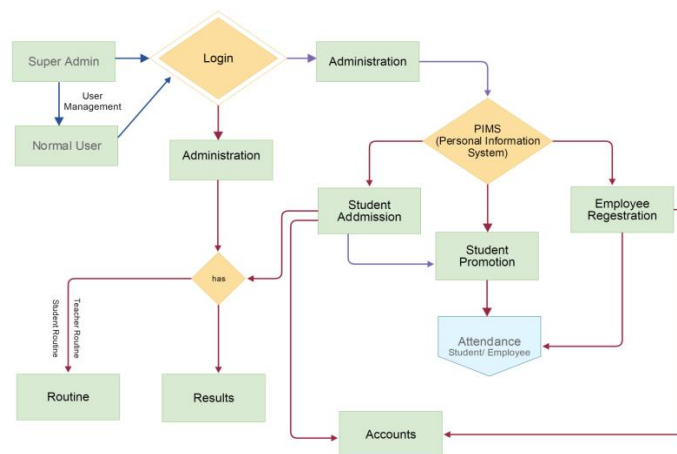
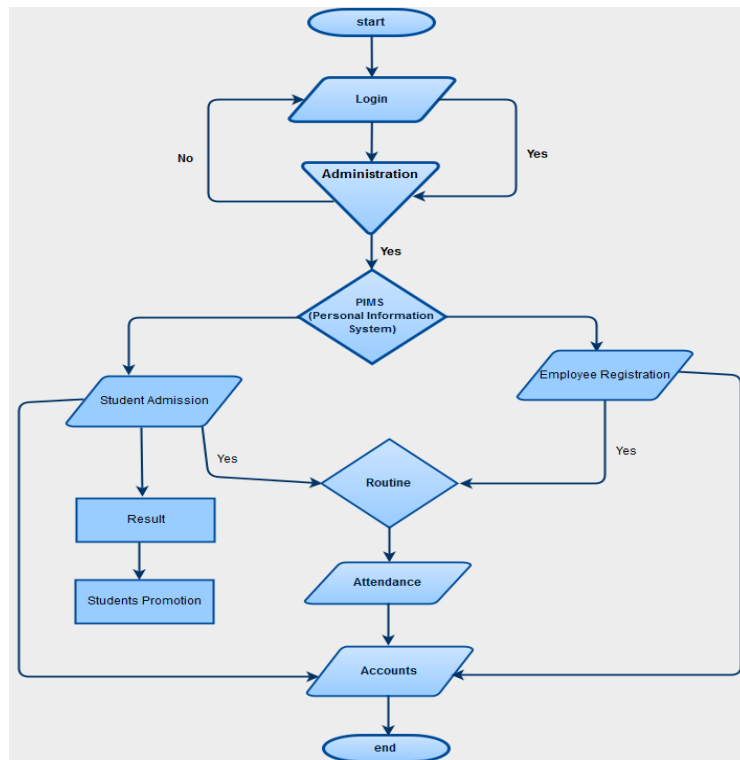


Figure 9: Data Flow Diagram

### 3.5 Design Requirements

#### ER Diagram for School360

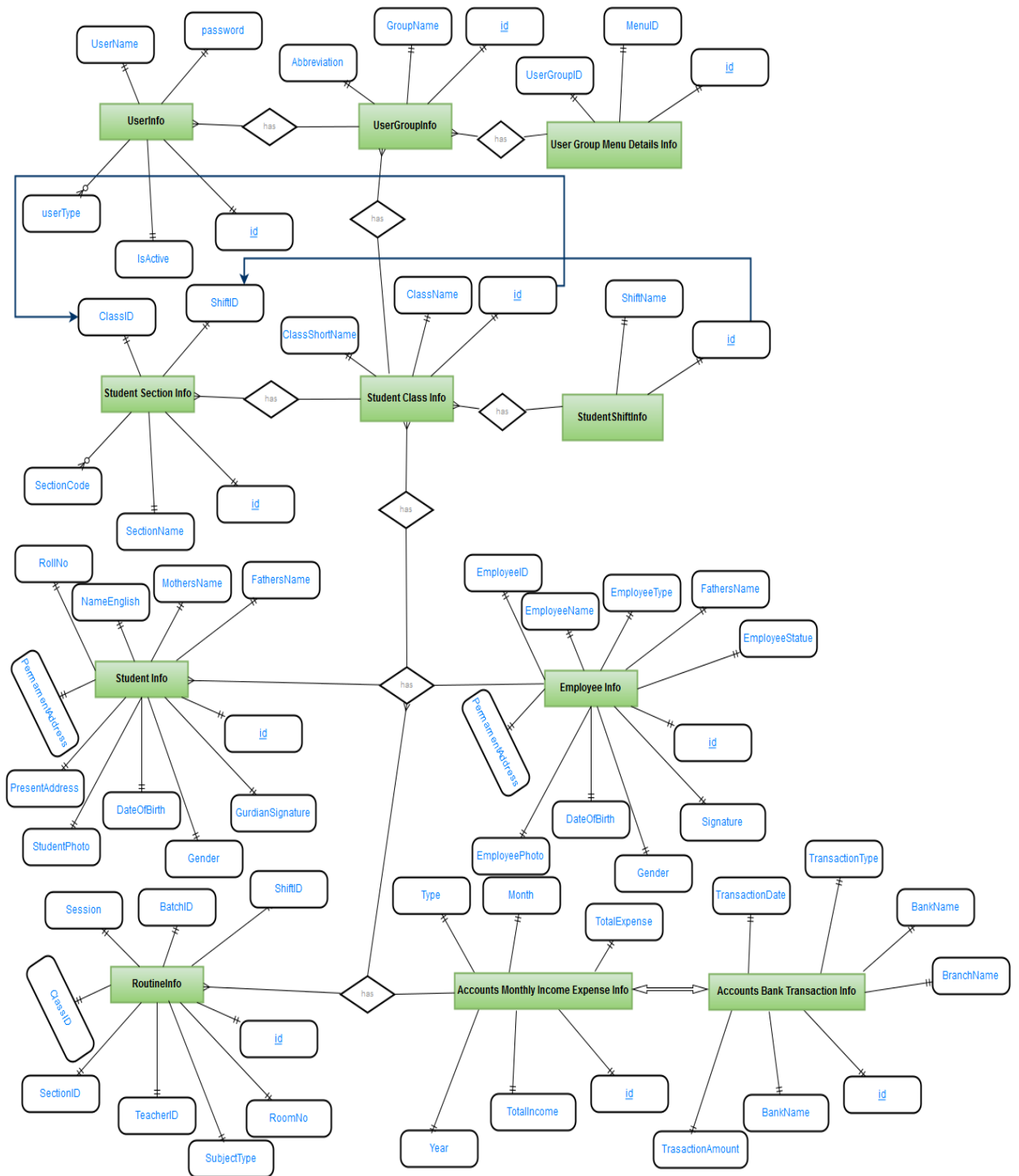


Figure 10: ER diagram for School360

## CHAPTER 4 DESIGN SPECIFICATION

### 4.1 Front-End Design Front End Language

PHP with HTML, DHTML, JavaScript, CodeIgniter, Front Page, jQuery Animation, Dream Weaver and any MVC Framework based standard will be used for this project. We prefer an open source Model view controller developed using PHP and MySQL. It has a flexible plug-in architecture. MVC is a well-known pattern and used widely for dynamic websites and portals.

## 4.2 Back-end Design

### Backend Language

PHP(CodeIgniter) and MySQL will be used as database server.

### Model-View-Controller

We used Model-view-controller (MVC) software architectural pattern. Its very popular and effective architectural for faster development and clean code. Its produce lot of opportunity for development.

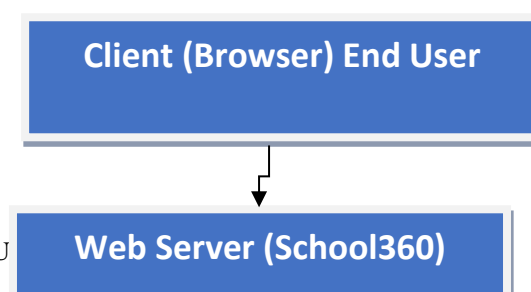
### Architecture of the System

Proprietary software-based web portal solution is expensive and total cost of ownership is high. Hence, we used open source-based enterprise architecture. This architecture focused on the user rather than technology that is more manageable and cost effective. We used Model-View-Controller (MVC) and Single source repository, multiple instance and multiple database pattern.

## 4.3 Interaction Design and UX

When the user communicates with the device, the device must be user friendly. And that's where the Interaction Design comes into play. As long as the user is comfortable with using the machine due its interaction design, the user can his job easily. But if the design is bad, the user won't have any clue what to do. The UX helps with the experience a client gets. The features might be critical; but the UX is there to help it for the customers. To have the features working smoothly for them.

## 4.4 Implementation Requirements



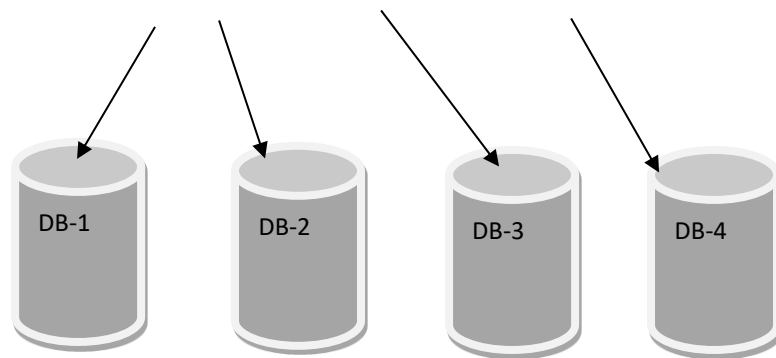


Figure 11: Conceptual Architecture of the System

We use a single source and multiple database pattern architecture. That's why we use an application server and a database server. When users send a request by browser then our web server makes a decision which database to connect for user response. For this we use a windows symmetric folder system and sub domain system.

### **NetBeans**

We use NetBeans IDE for our development. It's a very light and faster editor, code analyzer, and converter. NetBeans IDE supports Java, C/C++, XML and HTML, PHP, Groovy, Javadoc, JavaScript. It's very usable for PHP.

### **WampServer**

We use Wamp local server for development. It's a package. There it is PHP, MySQL and Apache. It's possible to modify. It allows multiple versions of PHP.

### **Cross Browser Compatibility**

From the browser statistics of w3, we see that Firefox, Google Chrome, and Internet Explorer are the most popular browsers today.

Hence our application should be compatible with following browsers -

- ✓ Mozilla Firefox
- ✓ Google Chrome

## **CHAPTER 5 IMPLEMENTATION AND TESTING**

### **5.1 Implementation of Database**

My School360 uses MySQL database and uses SqlYog management system for database management.



Our database will be named as a school short name. School360 database has 147 table.

### Database Tables

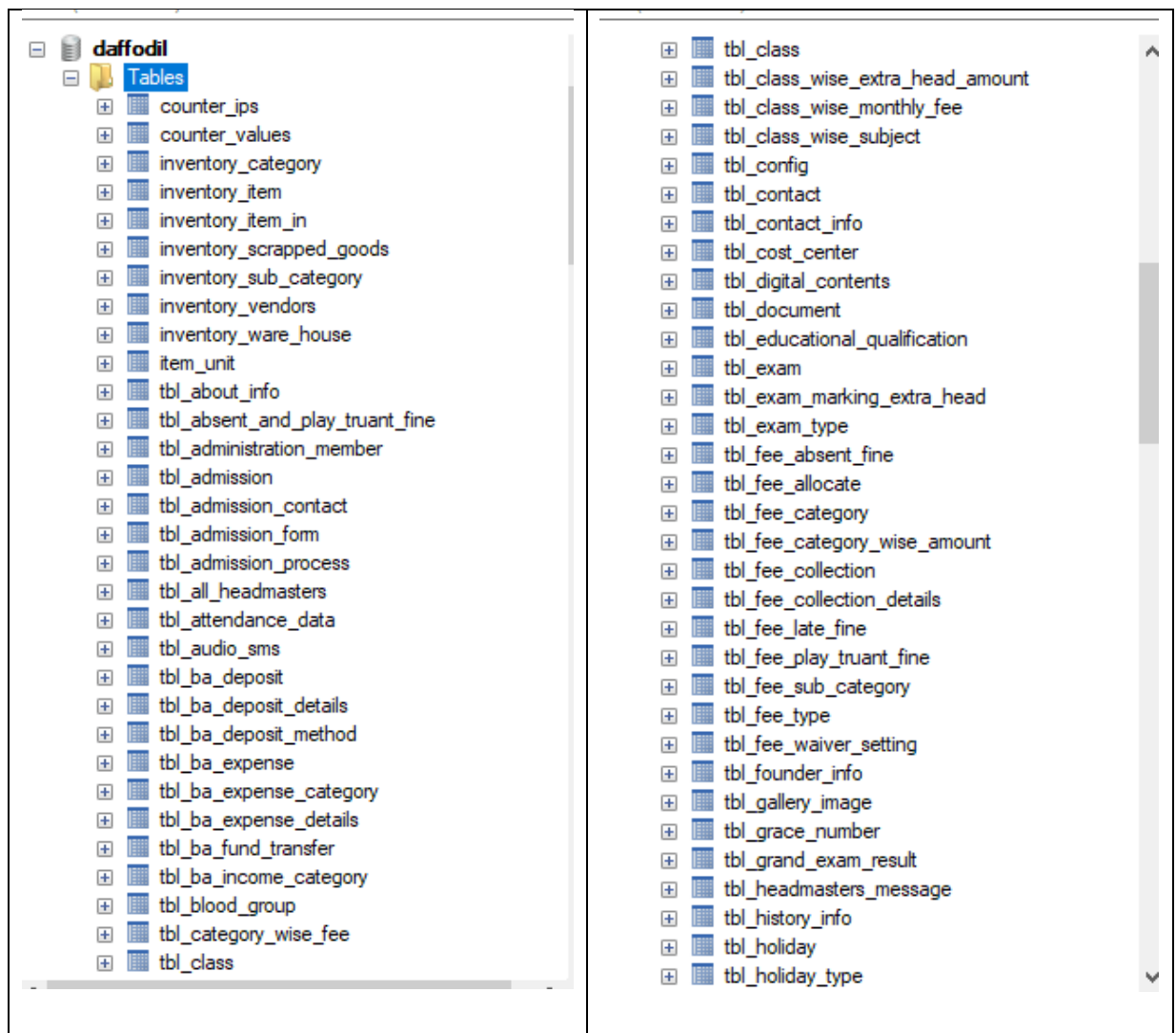


Figure 12.1: Database tables

### Database Tables

+ [tbl] tbl_holiday_type	+ [tbl] tbl_student_fee_account
+ [tbl] tbl_home_page_breaking_news	+ [tbl] tbl_student_fee_priority
+ [tbl] tbl_home_page_news	+ [tbl] tbl_student_fee_priority_details
+ [tbl] tbl_lab	+ [tbl] tbl_student_fee_waiver
+ [tbl] tbl_logins	+ [tbl] tbl_student_group
+ [tbl] tbl_managing_committee	+ [tbl] tbl_student_leave_applications
+ [tbl] tbl_marking	+ [tbl] tbl_student_logins
+ [tbl] tbl_message_category	+ [tbl] tbl_student_monthly_transport_fee
+ [tbl] tbl_message_config	+ [tbl] tbl_student_resident_info
+ [tbl] tbl_message_contact_list	+ [tbl] tbl_student_scholarship
+ [tbl] tbl_message_for_birthday	+ [tbl] tbl_student_special_care_info
+ [tbl] tbl_message_for_birthday_to_guardian_student_	+ [tbl] tbl_student_transfer
+ [tbl] tbl_message_for_birthday_to_teacher	+ [tbl] tbl_student_uploaded_result
+ [tbl] tbl_message_result_notify	+ [tbl] tbl_student_wise_extra_mark
+ [tbl] tbl_message_result_notify_student_list	+ [tbl] tbl_student_wise_subject
+ [tbl] tbl_message_sms_shoot	+ [tbl] tbl_subject
+ [tbl] tbl_message_template	+ [tbl] tbl_success_students
+ [tbl] tbl_message_to_guardian	+ [tbl] tbl_syllabus
+ [tbl] tbl_message_to_guardian_student_list	+ [tbl] tbl_teacher
+ [tbl] tbl_message_to_phonebook	+ [tbl] tbl_teacher_educational_qua
+ [tbl] tbl_message_to_phonebook_list	+ [tbl] tbl_teacher_leave_applications
+ [tbl] tbl_message_to_teacher	+ [tbl] tbl_teacher_logins
+ [tbl] tbl_message_to_teacher_list	+ [tbl] tbl_teacher_post
+ [tbl] tbl_module	+ [tbl] tbl_teacher_section
+ [tbl] tbl_month_wise_fee	+ [tbl] tbl_teacher_shift
+ [tbl] tbl_monthly_resident_fee	+ [tbl] tbl_teacher_staff_movement_registers
+ [tbl] tbl_monthly_special_care_fee	+ [tbl] tbl_timekeeping_config
+ [tbl] tbl_notice	+ [tbl] tbl_user
+ [tbl] tbl_on_of_status	+ [tbl] tbl_user_pass_history
+ [tbl] tbl_pay_code	+ [tbl] tbl_waiver_from_total_amount
+ [tbl] tbl_pc	+ [tbl] user_role_wise_privileges
+ [tbl] tbl_photo_event	+ [tbl] user_roles
+ [tbl] tbl_president_message	+ [tbl] Views

Figure 12.2: Database tables

## 5.2 Implementation of Front-end Design

# **School360:** A Complete School, College, Madrasah Coaching Centre Management System

**Website:** [www.school360.net](http://www.school360.net) & [www.school360.com.bd](http://www.school360.com.bd)

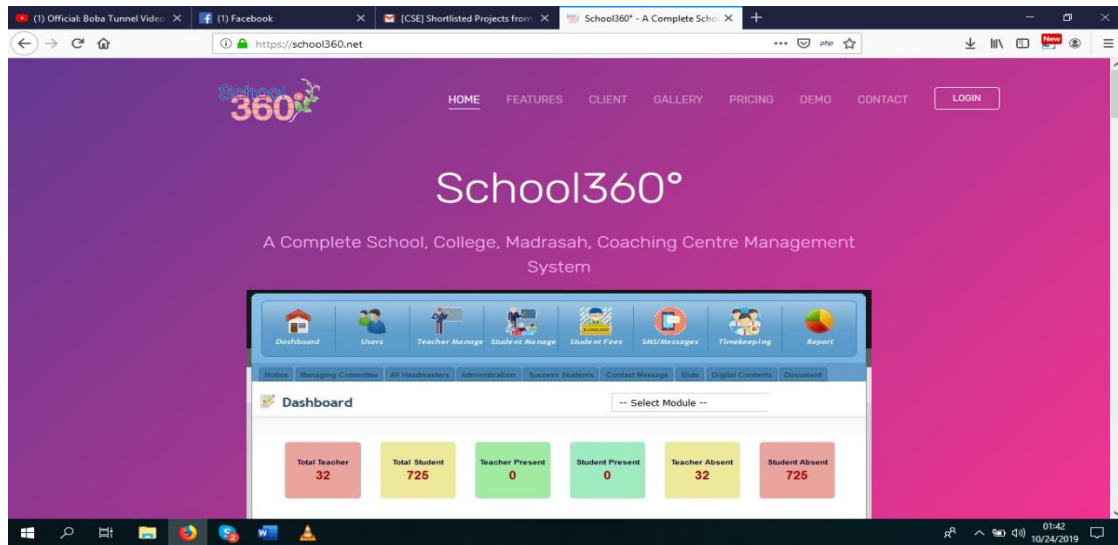


Figure 13: School360 Landing Page

## **Login to School360:**

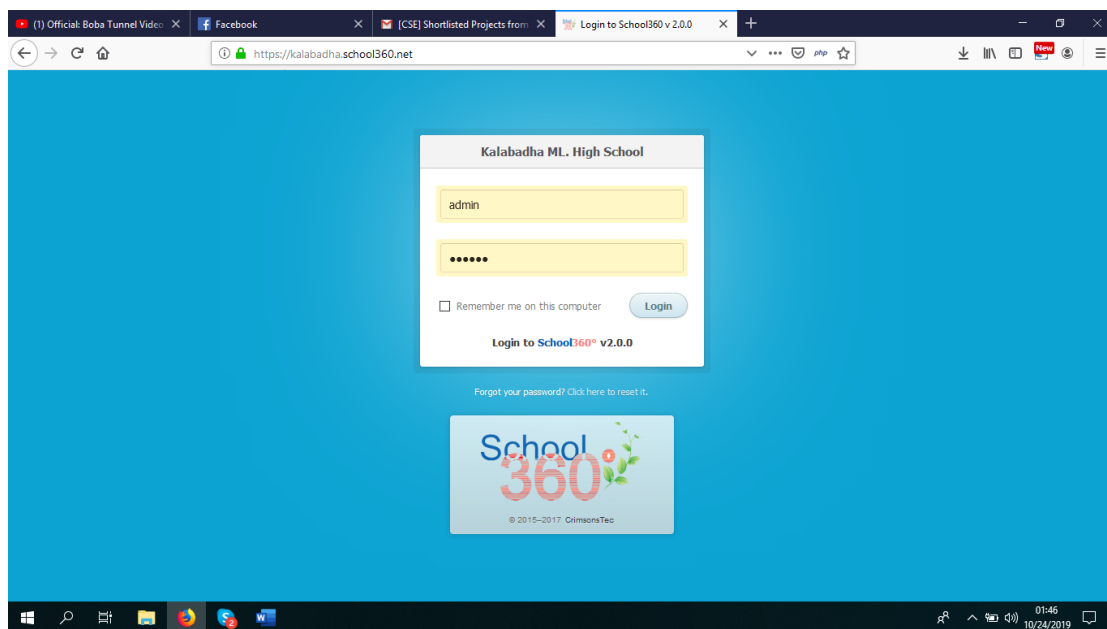


Figure 14.1: School360 Login Page

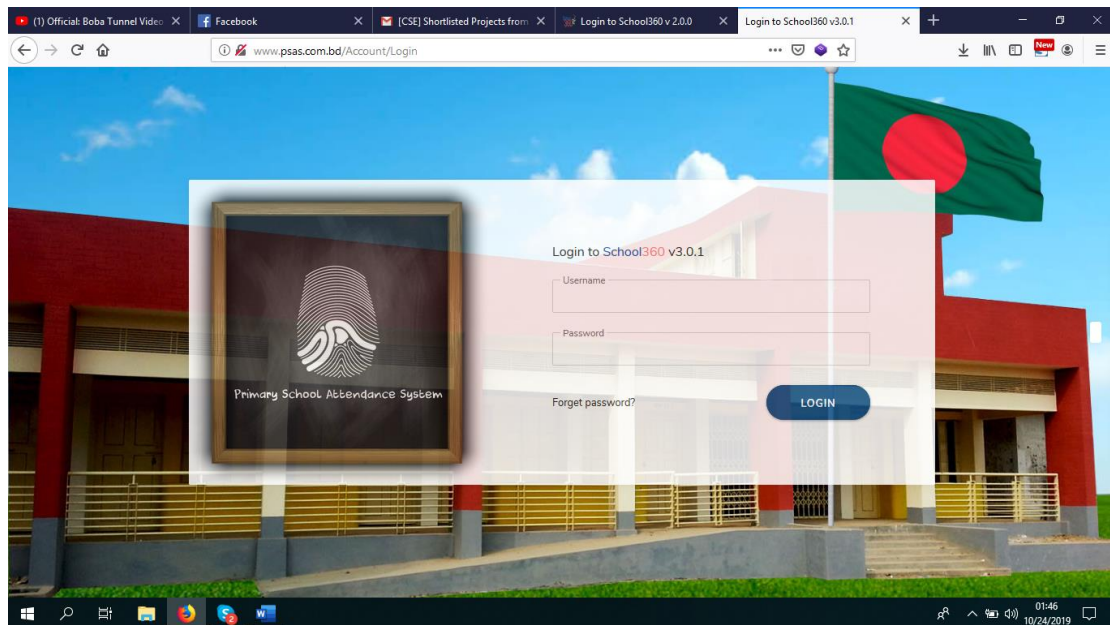


Figure 14.2: School360 Login Page (Primary School)

To have any changes to the web application you have to log in to the administration panel.

To log in into the site write **<https://demo.school360.net/login/index>** to the address bar of the browser provide the specified username and password. Then press enter.

## Dashboard of School360:

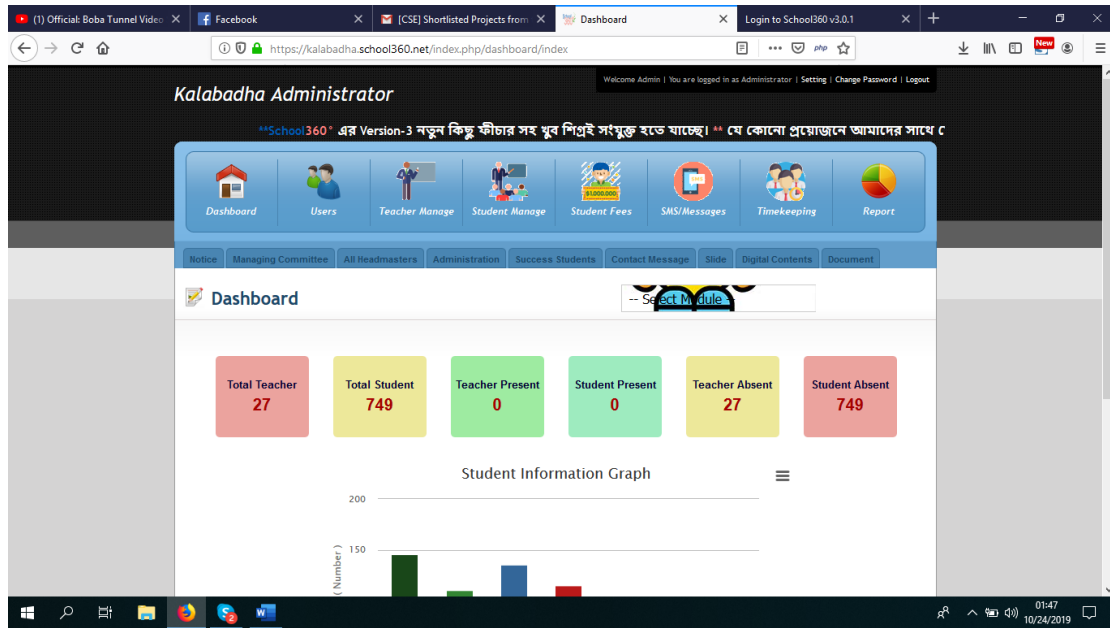


Figure 15.1: School360 Dashboard

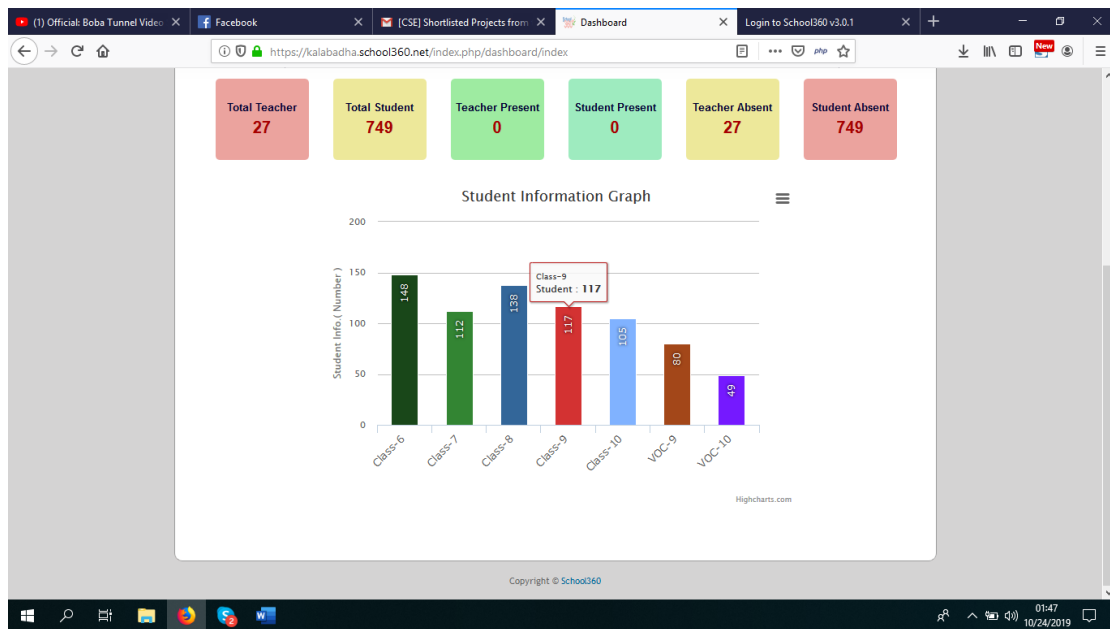


Figure 15.2: School360 Dashboard

## Student List & Activities:

The screenshot shows the 'Student Information' page in a web browser. The page has a navigation bar with tabs for 'Add New', 'Batch Add', 'Multiple Update', 'Photo Upload', 'Print ID Card', 'Special Care', 'Resident', 'Subject Assign', and 'Data Migrate'. Below this is a 'Student Transfer' button and a search bar with dropdown menus for 'Roll or Student ID', 'Class', 'Section', 'Group', 'Gender', 'Religion', 'Blood Group', and 'Status'. The main content is a table with the following data:

SL	Student ID	Name	Class	Section	Group	Shift	Roll	Action
1	ST-C8-01-2017-039	POTHIK KUMAR DAS	Class-10	A	Science	Day Shift	01	[Icons]
2	ST-C8-01-2017-005	MST. ISRAT JAHAN	Class-10	B	Science	Day Shift	01	[Icons]
3	ST-C8-02-2017-040	RAJU AHMED REZAUL	Class-10	A	Arts	Day Shift	02	[Icons]
4	ST-C8-03-2017-007	MST. SUMMA AKTER TULI	Class-10	B	Science	Day Shift	02	[Icons]
5	ST-C8-05-2017-043	MD.SHAHANSHA KHAN SHALLIN	Class-10	A	Arts	Day Shift	03	[Icons]
6	ST-C8-07-2017-011	SHOPTORSHI KORMOKER CHUMKY	Class-10	B	Science	Day Shift	03	[Icons]

Figure 16: Student List

## Student ID Configuration:

The screenshot shows the 'Student ID Configuration' page. It features a navigation bar with tabs for 'ID Config', 'Class', 'Subject', 'Class Wise Subject', 'Student Info.', 'Result Upload', 'Routine', 'Syllabus', 'Exam', 'Marking', 'Result Process', and 'Mark Sheet'. The main content area contains the following configuration options:

- Is Auto Code Enable?  Yes  No
- Segment 1: -- Not Applicable --
- Segment 2: Year Short
- Segment 3: Class Short Form
- Segment 4: -- Not Applicable --
- Auto Increment Option: Class Wise (Per Year)
- Auto Increment Code Length: 4
- Code Separator: .

A 'Save' button is located at the bottom of the configuration area. The footer of the page reads 'Copyright © School360'.

Figure 17: Student ID Configuration

## Student Add form:

**Kalabadha Administrator** Welcome Admin | You are logged in as Administrator | Setting | Change Password | Logout

++School360+ এর Version-3 নতুন কিছু ফীচার সহ খুব শিগ্ৰই সংযুক্ত হতে য

Dashboard Users Teacher Manage Student Manage Student Fees SMS/Messages Timekeeping Report

ID Config Class Subject Class Wise Subject Student Info Result Upload Routine Syllabus Exam Marking Result Process Mark Sheet

### Add New Student Information

Please Input All Correct Information

Name:

Student ID:

Process Code:

Class:

Subject List:

Please Select Class.....

Section:

Group:

Shift:

Roll No:

Reg No:

Date of Birth:

Date of Admission:

Gender:

Religion:

Blood Group:

Father's Name:

Father's National ID:

Mother's Name:

Mother's National ID:

Present Address:

Permanent Address:

Guardian Mobile:

Second Guardian Mobile (Optional):

Student Mobile (Optional):

Email:

Year:

Year (For Student ID):

Is Allowed for Timekeeping:  Yes  No

Synchronize Date:

Photo:  \* Image Format -> JPEG , JPG and PNG.

Figure 18: Student Add Form

## Student Course Curriculum Set:

Select Subjects for Class-6(Terminal Exam) <span style="float: right;">-- Select Module</span>									
Subject	Select	Credit	Class Test / Other	Creative	Objective	Practical	Calculable Amount (%) (Creative + Objective + Practical)	Groups	Order
BANGLA 1st (101)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	1
BANGLA 2nd (102)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	2
ENGLISH 1st (107)	<input checked="" type="checkbox"/>	100	No 0	Yes 100	No 0	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	3
ENGLISH 2nd (108)	<input checked="" type="checkbox"/>	100	No 0	Yes 100	No 0	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	4
GENERAL SCIENCE (127)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	5
GENERAL METHEMETIC (109)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	6
RELIGION ISLAM (111)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	7
RELIGION HINDU (112)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	8
BANGLADESH & G.STUDIES (154)	<input checked="" type="checkbox"/>	100	No 0	Yes 70	Yes 30	No 0	100	Commerce Building Maintenance General Electrical Works Not Applicable	9
ICT (156)	<input checked="" type="checkbox"/>	50	No 0	Yes 0	Yes 25	Yes 25	50	Commerce Building Maintenance General Electrical Works Not Applicable	10
AGRECUULTURE (134)	<input checked="" type="checkbox"/>	100	No 0	Yes 50	Yes 25	Yes 25	100	Commerce Building Maintenance General Electrical Works Not Applicable	11
BANGLA (001)	<input type="checkbox"/>	10	No	No	No	No	100	Science Arts Commerce Building Maintenance	1
ENGLISH (007)	<input type="checkbox"/>	10	No	No	No	No	100	Science Arts Commerce Building Maintenance	1

Figure 19: Student Course Curriculum



**Student Exam Admit Card:**



  <b>Sarishabari Ideal Kaume Model Madrasah</b> EIIN: 11111 <b>3rd Semester (2018)</b> <b>Admit Card</b> <a href="https://smmadrasah.school360.app/">https://smmadrasah.school360.app/</a>	
Student ID: <b>190003</b>	Class: <b>Play</b>
Name: <b>Fahima Akter</b>	Section: <b>Bokul</b>
Father's Name: <b>Rejaul Karim</b>	Roll No.: <b>03</b>
Mother's Name: <b>Tahomina</b>	Shift: <b>Day</b>
<b>N.B.:</b> Student without admit card would not be allowed to participate in the exam. List of student and routine will be published on website.	
Powered by: School360	Principal Signature

Figure 20: Student Admit Card Design

**Student Seat Plan:**





 <p style="text-align: center;"><b>Seat Plan</b> <b>Wisdom Lab. School and College</b> www.wisdomsc.edu.bd</p> <p><b>2nd Terminal Exam</b> <b>(2019) (2019)</b> Roll <b>15</b></p> <p>Class: <b>Play</b> Section: <b>N/A</b> Group: <b>Not Applicable</b></p> <p style="text-align: right;">Powered by: School360</p>	 <p style="text-align: center;"><b>Seat Plan</b> <b>Wisdom Lab. School and College</b> www.wisdomsc.edu.bd</p> <p><b>2nd Terminal Exam</b> <b>(2019) (2019)</b> Roll <b>21</b></p> <p>Class: <b>Play</b> Section: <b>N/A</b> Group: <b>Not Applicable</b></p> <p style="text-align: right;">Powered by: School360</p>
 <p style="text-align: center;"><b>Seat Plan</b> <b>Wisdom Lab. School and College</b> www.wisdomsc.edu.bd</p> <p><b>2nd Terminal Exam</b> <b>(2019) (2019)</b> Roll <b>19</b></p> <p>Class: <b>Play</b> Section: <b>N/A</b> Group: <b>Not Applicable</b></p> <p style="text-align: right;">Powered by: School360</p>	 <p style="text-align: center;"><b>Seat Plan</b> <b>Wisdom Lab. School and College</b> www.wisdomsc.edu.bd</p> <p><b>2nd Terminal Exam</b> <b>(2019) (2019)</b> Roll <b>22</b></p> <p>Class: <b>Play</b> Section: <b>N/A</b> Group: <b>Not Applicable</b></p> <p style="text-align: right;">Powered by: School360</p>

Figure 21: Student Seat Plan Design

## **Student Mark Entry:**

**Class: Play , Subject: English [002] ,Credit: 100**

Mark Distribution => Creative : 100, Multiple Choice : 0, Practical : 0, Class Test/Other : 0

SL	Name	Roll	Reg	Creative (100)
1	Alex Stephen Howlader	01	0	<input type="text" value="0"/>
2	Atikur Rahman Saim	02	0	<input type="text" value="0"/>
3	Al-Momin	03	0	<input type="text" value="0"/>
4	Tanha Tasnin	04	0	<input type="text" value="0"/>
5	Khalid Mahmud	06	0	<input type="text" value="0"/>
6	Md. Sadman Arafat	07	0	<input type="text" value="0"/>
7	Tafsirul Islam Jarif	08	0	<input type="text" value="0"/>
8	Tahsin Ahammed	09	0	<input type="text" value="0"/>

Figure 22: Student Mark Entry Screen

## Student Mark Sheet:


		<b>Wisdom Lab. School and College</b>									
		2ND TERMINAL EXAM (2019), 2019									
<b>WISDOM</b>		<hr style="width: 100%;"/>									
STUDENT ID : ST-PL-01-2018-001 NAME : ALEX STEPHEN HOWLADER FATHER'S NAME : MR. LITAN HOWLADER MOTHER'S NAME : MRS. TEMERA BISWAS DATE OF BIRTH : 13-09-2014		CLASS : PLAY GROUP : NOT APPLICABLE SECTION : N/A ROLL NO : 01									
<b>SUBJECT-WISE GRADE &amp; MARK SHEET</b>											
CODE	SUBJECT	2ND TERMINAL EXAM (2019)									
		Full Marks	Highest Marks	Class Test	Creative	Multiple Choice	Practical	Total Obtained	Letter Grade	GP	
001	Bangla	100.00	98.00	0.00	86.00	0.00	0.00	86.00	A+	5.00	
002	English	100.00	99.00	0.00	89.00	0.00	0.00	89.00	A+	5.00	
109	Math	100.00	100.00	0.00	89.00	0.00	0.00	89.00	A+	5.00	
004	Drawing and Drill	50.00	49.00	0.00	44.00	0.00	0.00	44.00	A+	5.00	
005	Riligion Christan	50.00	50.00	0.00	50.00	0.00	0.00	50.00	A+	5.00	
<b>Total Exam Marks</b>		<b>400</b>	<b>Obtained Marks &amp; GPA</b>				<b>358</b>	<b>A+</b>	<b>5.00</b>		
Result Summery		Moral & Behavior Evaluation			Comments						
Position	<b>19</b>				<b>Best</b>						
GPA (Without 4th)	<b>5.00</b>				<b>Better</b>						
Failed Subjects	<b>0</b>				<b>Good</b>						
1st Place Mark	<b>396</b>				<b>Need Imporvement</b>						
Total Working Days		Present days									
..... Class Teacher		..... Head Teacher									

Figure 23: Student Mark Sheet Design

## Tabulation Sheet:

Wisdom Lab. School and College EIN: 134483 Student Tabulation Sheet											
Class: Play , Section: N/A, Group: Not Applicable, Shift: Morning, Exam: 2nd Terminal Exam (2019), 2019											
SL.	Roll No. Name Student ID	Bangla Creative Class Test Objective Practical Total Mark Grade	English Creative Class Test Objective Practical Total Mark Grade	Math Creative Class Test Objective Practical Total Mark Grade	Religion Islam Creative Class Test Objective Practical Total Mark Grade	Religion Hindu Creative Class Test Objective Practical Total Mark Grade	General Knowledge Creative Class Test Objective Practical Total Mark Grade	Drawing and Drill Creative Class Test Objective Practical Total Mark Grade	Riligion Christian Creative Class Test Objective Practical Total Mark Grade	Position Grade CGPA (With Optional) CGPA (Without Optional) Total Mark	
1	01 Alex Stephen Howlader ST-PL-01-2018-001	86.00 0.00 0.00 0.00 86.00 A+	89.00 0.00 0.00 0.00 89.00 A+	89.00 0.00 0.00 0.00 89.00 A+	N/A	N/A	N/A	44.00 0.00 0.00 0.00 44.00 A+	50.00 0.00 0.00 0.00 50.00 A+	19 A+ 5.00 5.00 358	
2	02 Atikur Rahman Saim ST-PL-02-2018-002	98.00 0.00 0.00 0.00 98.00 A+	98.00 0.00 0.00 0.00 98.00 A+	100.00 0.00 0.00 0.00 100.00 A+	50.00 0.00 0.00 0.00 50.00 A+	N/A	N/A	45.00 0.00 0.00 0.00 45.00 A+	N/A	5 A+ 5.00 5.00 391	
3	03 Al-Momin ST-PL-00-2018-052	95.00 0.00 0.00 0.00 95.00 A+	92.00 0.00 0.00 0.00 92.00 A+	99.00 0.00 0.00 0.00 99.00 A+	43.00 0.00 0.00 0.00 43.00 A+	N/A	N/A	44.00 0.00 0.00 0.00 44.00 A+	N/A	15 A+ 5.00 5.00 373	
4	04 Tanha Tasnin ST-PL-00-2018-005	98.00 0.00 0.00 0.00 98.00 A+	98.00 0.00 0.00 0.00 98.00 A+	100.00 0.00 0.00 0.00 100.00 A+	50.00 0.00 0.00 0.00 50.00 A+	N/A	N/A	48.00 0.00 0.00 0.00 48.00 A+	N/A	3 A+ 5.00 5.00 394	

Figure 24: Student Tabulation Sheet

## Result Sheet:

Wisdom Lab. School and College EIN: 134483 Student Result											
Class: Play , Section: All, Group: All, Shift: Morning											
SL	Student ID	Name	Roll	Group	Section	Total Obtain Mark	GPA Without Optional	GPA With Optional	Grade Without Optional	Grade With Optional	Position
1	ST-PL-00-2019-029	Nujhat Tabassum Nabaha	26	Not Applicable	N/A	396	5.00	5.00	A+	A+	1
2	ST-PL-00-2018-008	Tahsin Ahammed	09	Not Applicable	N/A	395	5.00	5.00	A+	A+	2
3	ST-PL-00-2018-005	Tanha Tasnin	04	Not Applicable	N/A	394	5.00	5.00	A+	A+	3
4	19.PL.054	Layeba Jannat	27	Not Applicable	N/A	393	5.00	5.00	A+	A+	4
5	ST-PL-02-2018-002	Atikur Rahman Saim	02	Not Applicable	N/A	391	5.00	5.00	A+	A+	5
6	ST-PL-00-2018-017	AFRUJA MAHMUD ATFA	19	Not Applicable	N/A	391	5.00	5.00	A+	A+	5
7	ST-PL-00-2018-014	Ramim Hasan	11	Not Applicable	N/A	390	5.00	5.00	A+	A+	6
8	ST-PL-00-2019-028	Moubassir Shahriar Mormo	22	Not Applicable	N/A	390	5.00	5.00	A+	A+	6
9	ST-PL-00-2018-053	TAHMINA JANNAT TORA	14	Not Applicable	N/A	388	5.00	5.00	A+	A+	7
10	19.PL.036	Yeashi Hasnat	25	Not Applicable	N/A	388	5.00	5.00	A+	A+	7
11	19.PL.035	Jannatul Jenia Tathoy	23	Not Applicable	N/A	387	5.00	5.00	A+	A+	8
12	ST-PL-00-2018-016	Mubashshira Rahman Esha	16	Not Applicable	N/A	386	5.00	5.00	A+	A+	9

Figure 25: Student Result Sheet

## Collection Entry:

**Fee Collection**

-- Select Module --

**Class**  
Play ▼

**Section**  
N/A ▼

**Student**  
Al-Momin (Roll-03) (ID-ST-PL-00-2018-052) ▼

**Year**  
2019 ▼
October ▼ (It's Collection month)

**Fee Months**  

January  
 February  
 March  
 April  
 May  
 June  
 July  
 August  
 September  
October  
 November  
 December

▼

Is New Admission ?  Process

SL	Sub Category	Actual Amount (After Waiver)	Already Paid Amount	Waiver Amount	Already Discount Amount	Discount	Amount to be paid	Due Amount	<input type="checkbox"/>
Tri-Annual Fee									
Quarterly Fee									
Monthly Fee									
1	ICT Fee, October	50	50	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
2	Exam Fee, October	150	150	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
3	Tuition Fee, October	600	600	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
4	ICT Fee, November	50	0	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">50</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
5	Exam Fee, November	150	0	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">150</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
6	Tuition Fee, November	600	0	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">600</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
7	ICT Fee, December	50	0	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">50</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
8	Exam Fee, December	150	0	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">150</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
9	Tuition Fee, December	600	0	0	0	<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">600</span>	<span style="border: 1px solid black; padding: 2px;">0</span>	<input type="checkbox"/>
<b>Total</b>						<span style="border: 1px solid black; padding: 2px;">0</span>	<span style="border: 1px solid black; padding: 2px;">0</span>		

**Payment Information**

Do you collect late fee?       Late Fee 0

Mode of Pay Cash ▼      Receipt No. 1571896488      Do you want send sms ?       Do you want receipt ?

Submit

Figure 26: Student Fee Collection Entry Screen

## Student Fee Status Details:

Year  
2019

Class  
Play

Section  
N/A

Student  
RIFAIT KIBRIA RIDHI(ST-PL-00-2018-020) [View Report](#) [PDF Download](#) [Print Result](#)

---

**Wisdom Lab. School and College**  
EIIN: 134483  
Student Fee Status Details

---

Name: RIFAIT KIBRIA RIDHI, Class: 02, Roll No.: Play Shift: Day

Month	Receipt No. Date	Admission From	Re Admission Fee	Session Fee	Tuition Fee	Exam Fee	ICT Fee	Special Care	Transport
January	1545450713 22-12-2018	0	250	900	600	0	50	0	0
February	1549429614 06-02-2019	0	0	0	600	0	50	0	0
March	1551761586 05-03-2019	0	0	0	600	150	50	0	0
April	1554275192 03-04-2019	0	0	0	600	0	50	0	0
May	1557128769 06-05-2019	0	0	0	600	150	50	0	0
June	1557549614 11-05-2019	0	0	0	600	0	50	0	0
July	1562387712 06-07-2019	0	0	0	600	0	50	0	0
August	1563943971 24-07-2019	0	0	0	600	150	50	0	0
September	1567486825 03-09-2019	0	0	0	600	0	50	0	0
October	1569992569 02-10-2019	0	0	0	600	150	50	0	0
November	-	0	0	0	0	0	0	0	0
December	-	0	0	0	0	0	0	0	0

Figure 27: Student Fee Status Details Report

## Collection Summary:

Class  
 -- All Class --

Report For  
 -- All Student --

From Date  
 2019-10-20

To Date  
 2019-10-24

View Report PDF Download Print Result

**Wisdom Lab. School and College**  
 EIIN: 134483  
 Collection Summery

---


Class: All, Date: Oct 20th, 2019 - Oct 24th, 2019, Report For: All

SL	Student ID	Name	Class	Month/Year	Receipt No.	Date Time	Paid Amount (Tk.)
1	ST-C3-00-2018-040	MD. TAWSIF RAHMAN KHAN	Class-4	Oct, 2019	1571539600	2019-10-20 08:47:05	1,390.00
2	ST-C8-14-2017-076	Tasfia Khan ridi	Class-10	Oct, 2019	1571539704	2019-10-20 08:48:47	3,450.00
3	ST-C1-25-2017-062	Ruhul Amin Akash	Class-3	Oct, 2019	1571539960	2019-10-20 08:52:46	250.00
4	ST-PL-15-2017-013	Md. Mobin Zaman Prince	Class-1	Oct, 2019	1571540234	2019-10-20 08:57:28	1,740.00
5	ST-NS-14-2017-033	Rakibul Hasan Pranto	Class-2	Oct, 2019	1571542232	2019-10-20 09:30:52	800.00
6	ST-C6-18-2017-014	Nahida Aktar Nisha	Class-8	Oct, 2019	1571542328	2019-10-20 09:32:19	2,950.00
7	ST-C7-36-2018-083	Al-Shahriar Nirob	Class-8	Oct, 2019	1571554280	2019-10-20 12:52:09	4,270.00
8	ST-C8-28-2017-023	Shakhaout Hossain Mahin	Class-10	Oct, 2019	1571554802	2019-10-20 13:00:38	3,040.00
9	ST-C7-0-2017-004	MD.ASHRAFUL ISLAM	Class-8	Oct, 2019	1571572984	2019-10-20 18:03:11	450.00
10	ST-C7-00-2018-070	Mahabuba Jannat	Class-8	Oct, 2019	1571626875	2019-10-21 09:01:24	450.00
11	ST-C3-03-2017-003	Miskat Jannat alma	Class-5	Oct, 2019	1571627106	2019-10-21 09:05:18	2,000.00
12	ST-C8-00-2018-095	MD.SABBIR HOSAN	Class-8	Oct, 2019	1571627891	2019-10-21 09:19:02	2,850.00
13	ST-C6-07-2017-005	Abia Sultana Ria	Class-8	Oct, 2019	1571629736	2019-10-21 09:49:04	450.00
14	ST-C9-00-2019-083	IMDADUL HAQUE	Class-9	Oct, 2019	1571635835	2019-10-21 11:32:17	2,990.00
15	19.C8.090	Israt Jahan Nupur	Class-8	Oct, 2019	1571637996	2019-10-21 12:06:47	500.00
16	ST-PL-00-2017-008	NUR-A-JANNAT HUMAIRA	Nursery	Oct, 2019	1571657286	2019-10-21 17:28:34	1,200.00
17	ST-C9-00-2019-084	MST.KAMRUNNAHAR	Class-9	Oct, 2019	1571657639	2019-10-21 17:34:09	7,050.00
18	ST-C10-00-2019-064	MST.BODRUNNAHAR BORSHA	Class-10	Oct, 2019	1571657678	2019-10-21 17:34:57	4,050.00
<b>Total</b>							<b>39,880.00</b>

In Words: Thirty-Nine Thousand Eight Hundred and Eighty Taka Only.

Figure 28: Student Fee Collection Summery Report

**Bell Schedule:**



From Date  
2019-10-24

To Date  
2019-10-24

Day  
Sun  
Mon  
Tue  
Wed  
Thu  
Fri  
Sat

Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --
Bell Time 09:00	Bell Time 09:00	Bell Time 09:00	First Bell Time 09:00	Bell Time 09:00
Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --
Bell Time 09:00	Bell Time 09:00	Bell Time 09:00	First Bell Time 09:00	Bell Time 09:00
Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --	Bell Type -- Select --
Bell Time 09:00	Bell Time 09:00	Bell Time 09:00	First Bell Time 09:00	Bell Time 09:00

Figure 29: School360 Bell Schedule

\*\* All reports have been developed by HTML and CSS. The MPDF library has been used to create PDFs.

**Note: There are many more features in our software.**



### 5.3 Implementation of Interactions

We would like to believe we have the application as user friendly as it gets. Because we had gone a great deal with innovating the style, color of the modules that a user can see. Many issues have come up after our application deployment for live client. Then we worked on two (1. First deployment to test server and 2. Its real transaction but not live) processes for live and test. When this two-process passed then publish our live server.

### 5.4 Testing Implementation

We have done unit testing every feature. We made peer review after a feature development was over.

**Below are some of the test cases -**

TABLE 5.4.1: TESTING IMPLEMENTATION

No	Tested case	Test input	Expected outcome	Actual outcome	Result
1	Sign in	Enter username and password	To enter the system	Entered the system	Passed
2	Class configuration	Input class name, short name for student ID card and remarks	To add a new class	Class added	Passed
3	Student Information add	Enter all student related required filed	To add a new student	Student type added	Passed
4	Student exam marks	Enter exam, student and subject wise marks	To add marks for result process	Marks added	Passed
5	Add fee collection	Enter student, month and year then click	To add new student fee collection	collection added	passed

		process and select collected item			
6	Absent fine add	Enter class section and group then click process. After process input student wise amount.	To add new absent fine	Absent fine added	Passed
7	Show marksheet report	Enter year, exam, class, section, group and shit	To show marksheet	Marksheet shown successfully	Passed
8	Show Collection details	Select from date and to date and cost center	To show report	Report shown successfully	Passed

## 5.5 Test Results and Reports

We use Google Analytics to monitor our live clients. We know our clients about the most usable features. We need more of those things to make it faster and problem identify.]

Below some of google analytical report -

### Google Analytical Report:

#### Overview

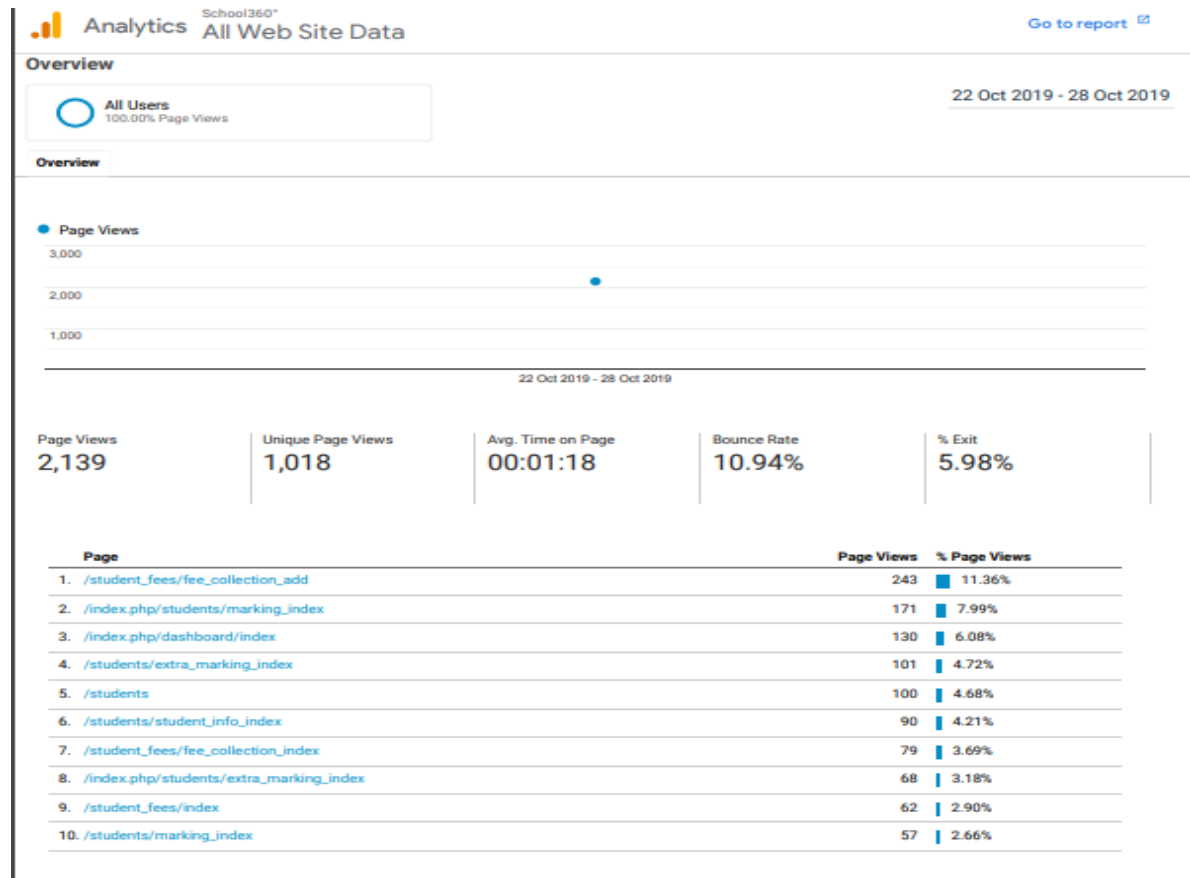


Figure 30.1: School360 Google Analytical Report

## What pages do your users visit?

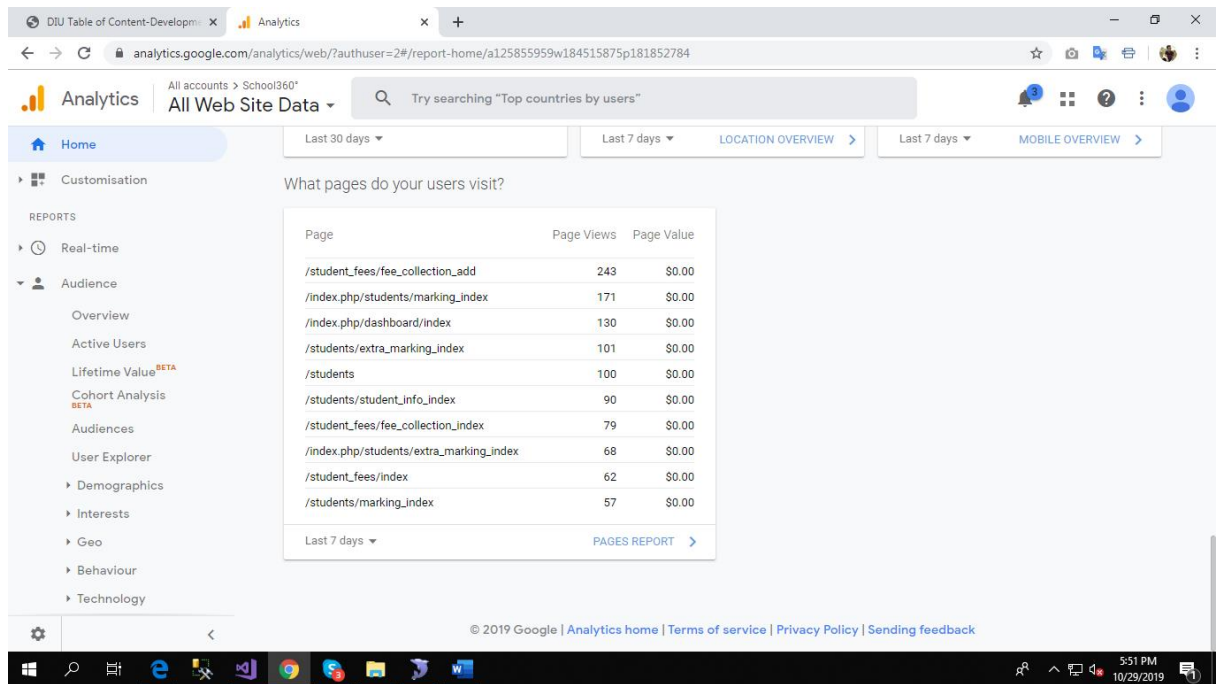


Figure 30.2: School360 Google Analytical Report

## Users Flow

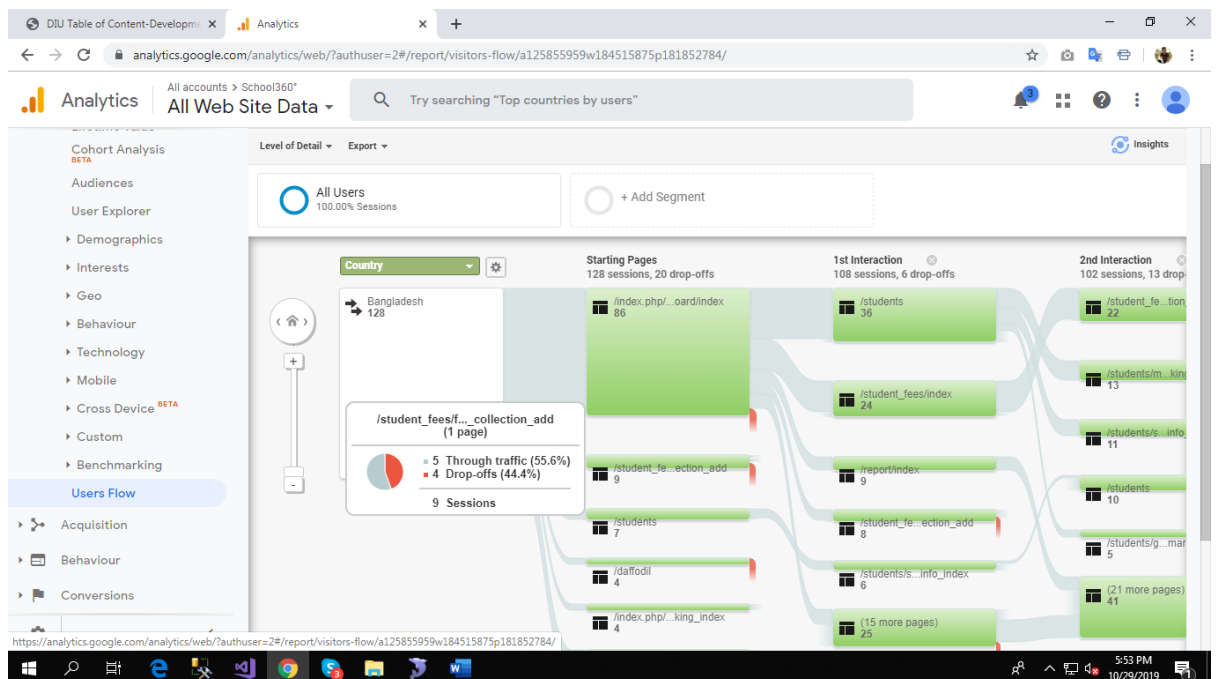


Figure 30.3: School360 Google Analytical Report

## **CHAPTER 6**

### **CONCLUSION AND FUTURE SCOPE**

#### **6.1 Discussion and Conclusion**

We designed School360 in such a way that the manual work era of the tedious days will come to an end. Being user friendly with cutting edge technologies used, we can provide something that people cannot even imagine at such costing. We introduced a system which is user friendly. A system which can be used by teachers, students and parents. Most of the features that were done manually can now be found in our system. The system being robust, with gap analysis any new features can be added promptly. Our database server can handle multiple loads with ease.

With this system, life will be easier and people without any expertise on technology can learn something

For themselves. And the most important thing of them all is, a lot of time will be saved by the management itself.

#### **6.2 Scope of Future Development**

Here the features we've added to make our software even bigger -

- Attendance with Face recognition.
- Central monitoring system for all features.
- Develop Transport, Library module.
- Develop Question Bank
- Develop Content module for school presentation
- Students health document add and analysis

## REFERENCES

- [1] [https://www.academia.edu/36247893/School\\_Management\\_System\\_Project\\_Document.docx](https://www.academia.edu/36247893/School_Management_System_Project_Document.docx).
- [2] Wisdom Lab. School & College [[www.wisdomsc.edu.bd](http://www.wisdomsc.edu.bd)]
- [3] <https://www.scribd.com/document/200940109/School-Management-System-Design-Document>

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**CHAPTER 1 Introduction 1.1 Introduction** It is a system developed mainly for educational institutes. A simple yet effective management system which is capable of handling large number of data, thus it's a large database management system. It is hosted on the internet which allows it to be flexible for multiple users. And the users can handle all of their required tasks at ease. The tasks vary from dealing with the teachers and students' information from fees to their results respectively, and all of these are done by the system itself. 1.2 Motivation Almost all the educational institutes tend to do their work manually where it comes to maintaining the institutes. This is one of the main reason time is wasted. Retrieving data of past years can be of a

lot of hassle. Whereas the entire process can be done within minutes with the management system. The system will not only save time but will also provide outcomes with human error.

### 1.3 Objectives

To bring the information easily accessible and usable by teachers, students and even parents. To let both sides know what goes in the backend calculative data and results can be acquired fast with less error rate. Making sure the attendance is not tedious and the parents are informed about the students missing their classes.

### 1.4 Expected Outcome

To develop a system, which is mainly web-based, which can be easily used by educational institutes. Time is key in day to day life. And using this system, time will be saved. And most of the processes that were long, tedious and error-prone will now become quite easy for the mass group of people of the institutes.

- To develop and maintain student and teacher profile
- To prepare ID Card, admit card, seat plan, automatic result generation and Mark sheet print
- School360 provide attendance record keeping, text SMS notification to parents
- To get different reports according to the school's requirement
- To allow transparency with both the teachers, schools and parents.
- To introduce a system which can replace the traditional bell system
- To manage the fees to be paid by the students
- To maintain the websites of the institute

### 1.5 Report Layout

All reports have been developed by HTML and CSS. The MPDF library has been used to create PDFs. Tebulation Sheet: Result Sheet: Student Fees Details: [CHAPTER 2 Background In](#) the following [chapter, we discuss about the](#) necessary [tools](#) we used [in](#) the [project](#). Also, we talk [about the](#) project that were done before previously on such similar topics. Furthermore, we will discuss about the features which will be added to our project in the near future and what difficulties we are facing along the way.

### 2.1 Introduction

The project is based on a web application, it runs on a web server (Apache). The system was developed by using different tools, for this, we used, PHPStorm, Atom ide and for managing the database, we used SqlYog. For the language of the code, we used a framework of PHP (CodeIgniter Framework), we used HTML, CSS, JAVASCRIPT, jQuery. We used MYSQL for queries on the database and we used WAMP SERVER as our Database Server.

#### Target Audience and benefits

This product is basically on school management system. Administrative staff, teacher & student of a school can uses this application via web protocol. Student can check register themselves, check their results and update their profile. They also can view their class routine and related resources from this Web application. Teacher can register themselves on this site. they can update & publish students result. They can update their profile. Teacher can apply for their leave by using online leave application. Administrative Staff can add or remove teacher and student from database via this application. They also can register themselves. 2,000 users can use this. It is completely free of cost. All school can use this application.

#### Benefits to Customer

It reduces effort to maintain data in an effective manner. Teacher can easily see the status and progress of the students. Student can see gets information when they need by simply accessing the site. Data management system is much easier in this way because there is no way to loss/theft of data.

### 2.2 Related Works

A company named netizen has a system which deals with all the similar features. Including attendance marksheet, progress report, payroll, etc. It's an educational institute management system which allow the teacher students and parents to be connected. Only assigned people with credentials can access the information.

### 2.3 Comparative Studies

In comparison to the existing system and our system, it varies from the core of the system. Its architecture. In a database management system, data is everything. And if anything goes wrong there, the system will be in jeopardy. And we have made sure that if such case arises due to excess load on the database, we can handle it. We tested out system by overloading it with data requests and it works fine.

### 2.4 Scope of the Problem

School360 is for the



teachers, students, parents and all the people involved here. Acquiring data at faster and easier way will be a massive help for all the parties involved. A system easily usable by people with little or no guidance can come in handy at times of requirement. The application provides a great deal of security to the data it acquires.

### 2.5 Challenges Problems will come when start implementing a school management system-

- Cost effectiveness of computer hardware and software
- Independent attendance device and Infrastructure
- Good internet
- ICT skilled personnel
- Lack of specific and Inadequate availability of relevant software
- Lack of maintenance service culture
- Constant Electricity

### CHAPTER 3 Requirements [Specification 3.1 Business Process Modeling](#) [3.2 Requirement Collection and Analysis](#)

#### Functional Requirement

In this application the teacher and students will register themselves. In this application, students will check their results and update their profile. Student will view their attendance. Teacher will publish and update students result. They will update their profile. Teacher will send their leave application by this application. Administrative staff will add, remove and update teacher and student database via this application.

#### Non-Functional Requirements

This application will run on common browsers. They will not change the Customizations of fonts and colors of the web application. This application will run on 24 \* 7 monitoring. Teachers and students will access this application Through their username and password. Administrative staff will have to Access their functions no one cannot access administrative functions. Use strong passwords for all accounts.

#### Environmental Requirements

- MS Visio – a design program, its use for analysis and diagram design.
- MySQL School360 used is MySQL. It's free and open source.
- Apache: We have used Apache server for our software
- PHP: For server-side development we used PHP
- SQLYog: A client desktop application to create, edit and delete database, table, view etc. in MySQL database server
- Simple test: Used for unit testing.
- Netbeans, and integrated development environment used for the project.

#### Requirements Collection and Analysis

We used some school concern person for our software's Requirements Collection. They provide their need and we develop step by step.

- Languages for development ? PHP (CodeIgniter MVC framework) ? HTML for Font end design ? CSS for Font end design ? jQuery ? JavaScript ? MySQL
- Used Development IDE ? Atom ? PhpStorm ? SqlYog for database manage
- Used Hardware ? Computer ? Biometric Attendance Device ? Sound Box

#### Analysis

Our project's main objective is to be a School Management System, where it will contain all the necessary features to manage students, teachers and the data. The system will look after the day to day administration service provided by the school. The part that makes this project astonishing is that it can seamlessly run for schools, colleges and also University. It recues the manual paperwork's done by an institute and gets all its user under one platform where their required data is almost always, readily available. And using this, it will make life a lot easier and get the job done faster.

### 3.3 Use Case Modeling and Description

Fig: 01 After admin login, they can add single student or bulk student using excel, add teacher. Admin can configure class, class wise subject, upload routine for website and admin also can set or reset password for parents for student and parents.

Fig: 02 Fig: 2 Firstly student login this [system using valid user name and password. After successfully login](#) student can see him/her profile and view their time table. They can open their all marksheet and attendance report.

Fig: 03 After login teacher can input exam mark for on his class and they can input attendance information for students. Teacher also see their class routine.

Fig: 04 If login a parent they can see their child any type of report (like: exam, fees and attendance). We try to develop connectivity between parents and teachers.

Fig: 04 School360 admin [use case diagram](#) Fig: 04 School360 student [use case diagram](#) Fig: 04 School360 teacher [use case diagram](#)

### 3.4 Logical Data

[Model Data](#) Flow Diagram (DFD) [The](#) term DFD refers to Data Flow Diagram. Its representation of data objects presents in a system by showing in figures. This show a visual flow chart of how the data is processed in a system. The representation shows how data moves in each stage. It also indicates the movement and state of data moving from the input to output. 3.5 Design Requirements ER Diagram for School360 Fig: School360 ER [Diagram](#)

[CHAPTER 4 Design Specification 4.1 Front-End Design Front End](#) Language PHP [with](#) HTML, DHTML, JavaScript, CodeIgniter, Front Page, jQuery Animation, Dream Weaver and any MVC Framework based standard will be used for this project. We prefer an open source Model view controller developed using PHP and MySQL. It has a flexible plug-in architecture. MVC is a well-known pattern and used widely for dynamic websites and portals. 4.2 Back-end Design Backend Language PHP(Codeigniter) and MySQL will be used as database server. [Model-View-Controller](#) We used [Model-view-controller \(MVC\) software](#) architectural pattern. Its very popular and effective architectural for faster development and clean code. Its produce lot of opportunity for development. Architecture of the System Proprietary software-based web portal solution is expensive and total cost of ownership is high. Hence, we used open source-based enterprise architecture. This architecture focused on the user rather than technology that is more manageable and cost effective. We used Model-View-Controller (MVC) and Single source repository, multiple instance and multiple database pattern. 4.3 Interaction Design and UX When the user communicates with the device, the device must be user friendly. And that's where the Interaction Design comes into play. As long as the user is comfortable with using the machine due its interaction design, the user can his job easily. But if the design is bad, the user won't have any clue what to do. The UX helps with the experience a client gets. The features might be critical; but the UX is there to help it for the customers. To have the features working smoothly for them. 4.4 Implementation Requirements Client (Browser) End User Web Server (School360) [DB-1 DB-2 DB-3 DB-4](#) Figure: Conceptual Architecture of the System. We using single source and multiple database pattern architecture. That why we used an application server and a database server. When users send request by browser then our web server make a decision which database connect for user response. For this we use windows symmetric folder system and sub domain system. NetBeans We using NetBeans IDE for our development. It's a very lite and faster [editors, code analyzers, and converters. NetBeans](#) IDE support [Java, C/C++, XML and HTML, to PHP, Groovy, Javadoc, JavaScript. Its](#) very usable for PHP. Wamp Server We using wamp local server for development. It's a package. There it is PHP, MySQL and Apache. It's possible to modify. It allows multiple version php. Browser Size Cross Browser Compatibility From the browser statistics of w3, we see that Firefox, Google Chrome, and Internet Explorer are the most popular browsers today. Hence our application should be compatible with following browsers - ? Mozilla Firefox ? Google Chrome [CHAPTER 5 Implementation and Testing 5.1 Implementation of Database](#) My School360 [used](#) MySQL database and using SqlYog management system for database manage. Our database will be named as a school short name. School360 database has 147 table. Database Tables [5.2 Implementation of Front-end Design](#) School360 website: [A](#) Complete School, College, Madrasah Coaching Centre Management System www.school360.net Login to School360: To have any changes to the web application you have to log in to the administration panel. To log in into the site write https://demo.school360.net/login/index to the address bar of the browser provide the specified username and password. Then press enter. Dashboard of School360: Student List & Activities Student ID Configuration Student Add form Student Course Curriculum Set Student Exam Admit Card Student Seat Plan Student Mark Entry Student Mark Sheet Tabulation Sheet

Result Sheet Collection Entry Student Fee Status Details Collection Summary Bell Schedule Note: There are many more features in our software. 5.3 Implementation of Interactions We would like to believe we have the application as user friendly as it gets. Because we had gone a great deal with innovating the style, color of the modules that a user can see. Many issues have come up after our application deployment for live client. Then we worked on two (1. First deployment to test server and 2. Its real transaction but not live) processes for live and test. When this two-process passed then publish our live server. 5.4 Testing Implementation We have done unit testing every feature. We made peer review after a feature development was over. Below are some of the test cases - [No Tested case Test input Expected outcome Actual outcome Result 1 Sign in Enter username and password To enter the system Entered the system Passed 2](#) Class configuration Input class name, short name for student ID card [and remarks To add a new class Class added Passed 3](#) Student Information [add Enter](#) all student related required filed [To add a new student Student type added Passed 4](#) Student exam marks [Enter](#) exam, student and subject wise marks To add marks for result process Marks added Passed 5 Add fee collection Enter student, month and year then click process and select collected item To add new student fee collection collection added passed 6 Absent fine add Enter class section and group then click process. To add new absent fine Absent fine added Passed After process input student wise amount. 7 Show marksheet report Enter year, exam, class, section, group and shit To show marksheet Marksheet [shown successfully Passed 8 Show](#) Collection details [Select](#) from date [and to date](#) and cost center [To show report Report shown successfully Passed 5.5 Test Results and Reports We](#) use Google Analytics to monitor our live clients. We know our clients about the most usable features. We need more of those things to make it faster and problem identify.] Below some of google analytical report - Google Analytical Report: Overview What pages do your users visit? Users Flow [CHAPTER 6 Conclusion and Future Scope 6.1 Discussion and Conclusion](#) We designed School360 [in](#) such a way that the manual work era of the tedious days will come to an end. Being user friendly with cutting edge technologies used, we can provide something that people cannot even imagine at such costing. We introduced a system which is user friendly. A system which can be used by teachers, students and parents. Most of the features that were done manually can now be found in our system. The system being robust, with gap analysis any new features can be added prompt. Our database server can handle multiple loads with ease. With this system, life will be easier and people without any expertise on technology can learn something For themselves. And the most important thing of them all is, a lot of time will be saved by the management itself. 6.2 Scope of Future Development Here the features we've added to make our software even bigger - • Attendance with Face recognition. • Central monitoring system for all features. • Develop Transport, Library module. • Develop Question Bank • Develop Content module for school presentation • Students health document add and analysis REFERENCES [1] [https://www.academia.edu/36247893/School\\_Management\\_System\\_Project\\_Document.docx](https://www.academia.edu/36247893/School_Management_System_Project_Document.docx). [2] Wisdom Lab. School & College [www.wisdomsc.edu.bd] [3] <https://www.scribd.com/document/200940109/School-Management-System-Design-Docment> [©Daffodil International University 1](#) [©Daffodil International University 2](#) [©Daffodil International University 3](#) [©Daffodil International University 4](#) [©Daffodil International University 5](#) [©Daffodil International University 6](#) [©Daffodil International University 7](#) [©Daffodil International University 8](#) [©Daffodil International University 9](#) [©Daffodil International University 10](#) [©Daffodil International University 11](#) [©Daffodil International University 12](#) [©Daffodil International University 13](#) [©Daffodil International University 14](#) [©Daffodil International University 15](#) [©Daffodil](#)

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