

**LONG TERM INTERNSHIP**

**SCHOOL MANAGEMENT SYSTEM**

A Project Submitted In Partial Fulfillment of the  
Requirements for The Degree Of

**BACHELOR OF COMPUTER SCIENCE**

**By**

**BIKKAVILLI C.S.S.LAXMI PRANITHA**

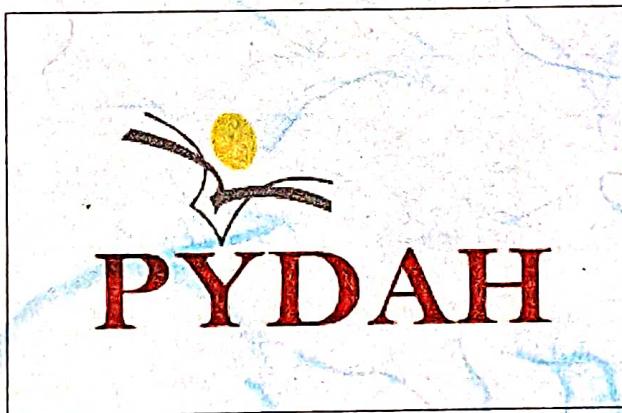
**Regd.No.720131905057**

Under the esteemed guidance of

**Y.KRISHNA**

Lecturer in Computer Science

Pydah College for Women



**PYDAH COLLEGE FOR WOMEN**  
**AFFILIATED TO ANDHRA UNIVERSITY**  
**VISAKHAPATNAM**  
**2022-2023**

# **LONG TERM INTERNSHIP**

## **SCHOOL MANAGEMENT SYSTEM**

A Project Submitted In Partial Fulfillment of the ✓

Requirements for The Degree Of

## **BACHELOR OF COMPUTER SCIENCE**

By

**BIKKAVILLI C.S.S.LAXMI PRANITHA**

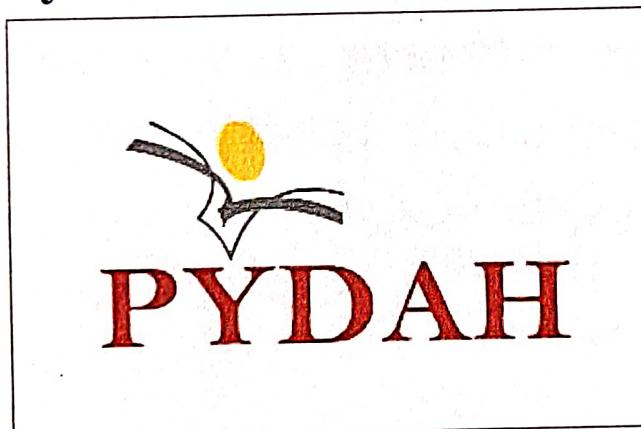
Regd.No.720131905057

Under the esteemed guidance of

**Y.KRISHNA**

**Lecturer in Computer Science**

**Pydah College for Women**



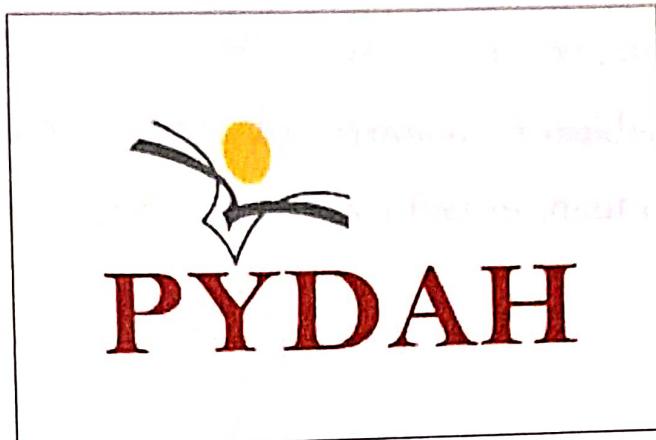
**PYDAH COLLEGE FOR WOMEN  
AFFILIATED TO ANDHRA UNIVERSITY  
VISAKHAPATNAM**

**2022-2023**

# PYDAH DEGREE COLLEGE FOR WOMEN

(Affiliated by Andhra University)

Visakhapatnam



## CERTIFICATE

This is to certify that this is a bonafide project work entitled  
“SCHOOL MANAGEMENT SYSTEM” by **BIKKAVILLI**  
**C.S.S.LAXMI PRANITHA** bearing regd.no.720131905057 student  
of bachelor of computer science in Pydah College for women, Andhra  
university during period 2022-2023

External:

  
**Y.KRISHNA**

  
**(Project Guide)**

  
**HOD**

## **DECLARATION**

I hereby declare that this project entitled “SCHOOL MANAGEMENT SYSTEM” has been prepared by me and submitted to pydah college for women, Visakhapatnam and this project has not been submitted to any other in institute previously.

Visakhapatnam

Date: 02 - 08 - 2023

Name: Bikkavilli C.S.S. Janani  
Pranitha

[Type text]

## CONTENTS

# School Management System

- 1. Introduction
- 2. System Overview
- 3. Features and Benefits
- 4. System Architecture
- 5. Data Flow Diagram
- 6. User Authentication
- 7. Student Management
- 8. Staff Management
- 9. Academic Record Management
- 10. Financial Management
- 11. Reports and Analytics
- 12. Integration with External Systems
- 13. Security and Compliance
- 14. Future Enhancements
- 15. Conclusion

[Type text]

[Type text]

## CONTEXT

### 1.Objectives

### 2.Input and Output

### 3.Details of Modules

### 4.Usecase Diagrams

### 5.Tools/Platforms/Languages

### 6.Coding(PHP and My Sql)

### 7.Database Tables

### 8.Output Screens

### 9.Test Cases

### 10.Limitations of the Project

### 11.Scope of Future Reference

### Bibliography

[Type text]

[Type text]

## 1.OBJECTIVES

Online School management system is a web application, verymuch used for all schools, colleges. Now a days in schools and colleges it is difficult to maintain faculties, their hours, and student details.. Using our application, we can easily maintain entire school data, and we can easily search for each faculty periods.

Admin can add, delete, update, display existing students and faculty details. Each and every faculties periods are added to our database. students can register by his own. After that the student can search for his class subjects and their faculty names.

[Type text]

[Type text]

## 2.INPUT AND OUTPUT

Input Forms in our project:

- 1) Student registration form
- 2) Faculties registration form

Output Pages in our project:

- 1) Display all faculties and their periods
- 2) Display all student details
- 3) Students can search faculty details.

[Type text]

[Type text]

### 3.DETAILS OF MODULES

Our Project having Three Modules:

- 1) Admin Module
- 2) faculty Module
- 3) uses Module

In Admin Module, admin login form having admin username and password. If these values are matched with backend database values, then only admin gets authentication to the server. After authentication, admin control panel will be displayed. Admin can add new agencies.

In user Module, user can register and login to his account. If these values are matched with backend database values, then only user gets authentication to the server. After authentication, user control panel will be displayed.

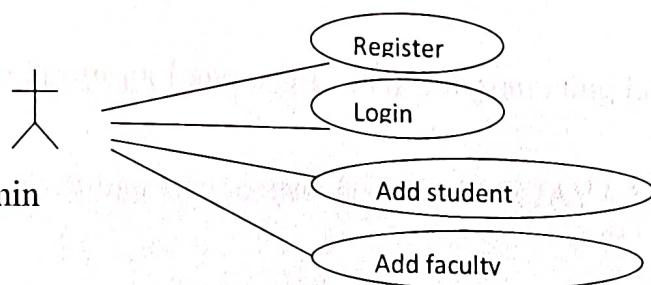
In faculty module, faculty will be login to his account and search for his periods. Students also can search for periods.

[Type text]

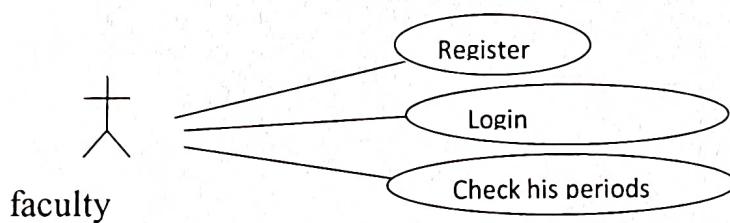
[Type text]

## 4. USECASE DIAGRAMS

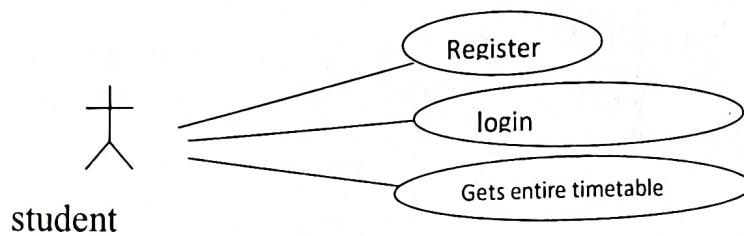
1) Usecase diagram for Admin:



2) Usecase diagram for faculty:



3) Usecase diagram for student:



[Type text]

[Type text]

## 5.TOOLS/PLATFORMS, LANGUAGES

Operating System: Windows 7

Server: Apache

Server Side Scripting Languages: PHP Programming Language

Client Side Scripting Languages: HTML, CSS, JAVA SCRIPT

[Type text]

[Type text]

## About PHP and MySql

### 6.CODING

#### 1) Index.php

```
<html>
<frameset rows="20%, 80%">
<frame name="f1" src="menu.php">
<frame name=f2>
</frameset>
</html>
```

#### 2) Menu.php:

```
<html>
<body bgcolor="yellow">
<a href="home.php" target="f2">Home</a>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; | &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="userlogin.php" target="f2">Student Page</a>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; | &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="agentlogin.php" target="f2"> Faculty Page</a>
&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; | &nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
<a href="adminlogin.php" target="f2">Admin Login</a>

</body>
</html>
```

[Type text]

[Type text]

### 3) Display all students:

```
<html>
<body bgcolor=lightgreen>
<br><br>
<?php
$c=mysql_connect("localhost", "root", ""); //server connection
if(! $c)
{
echo "server not connected";
}
else
{
echo "server connection succesful";
}

$d=mysql_select_db("project13"); //database connection
if(! $d)
{
echo "<br>database not connected";
}
else
{
echo "<br>database connection succesful";
}

$s="select * from students";
```

[Type text]

[Type text]

```
$k=mysql_query($s, $c);  
  
if(! $k)  
{  
    echo "<br>error in retrieving data";  
}  
else  
{  
    echo "<br>select command success";  
}  
  
echo "<center><table border=1 bgcolor=lightyellow height=30% width=60%><tr>  
<th>Student ID  
<th>Student Name  
<th>Class  
<th>Mobile  
";  
while($r=mysql_fetch_array($k))  
{  
    echo "<tr><td>$r[0]" . "<td>" . "$r[1]" . "<td>" . "$r[2]" . "<td>" . "$r[3]" ;  
}  
echo "</table></center>"  
?>  
  
</body>  
</html>
```

[Type text]

[Type text]

## 7.DATABASE TABLES

1) Faculties Table:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	facid	bigint(8)			No	None		AUTO_INCREMENT
2	facname	varchar(30)	latin1_swedish_ci		No	None		
3	sub	varchar(30)	latin1_swedish_ci		No	None		
4	mobile	bigint(10)			No	None		

2) Hours Table:

hour_id	class	subject	weekday
1	class1	maths	monday
2	class1	computers	monday
1	class2	english	monday
2	class2	telugu	monday
1	class1	computers	tuesday
2	class1	maths	tuesday
1	class2	telugu	tuesday
2	class2	english	tuesday

[Type text]

[Type text]

3) students Table:

stuid	stuname	class	mobile
1	manasa	class1	8767876787
2	ramya	class1	9878987898
3	kiran	class2	9876567656
4	sandhya	class2	6567678787

[Type text]

[Type text]

## 8.OUTPUT SCREENS

### 1) Home.php:

The screenshot shows a web browser window with the URL `localhost/project13/`. The page title is "Welcome to Student Management System". Below the title, there is a message: "Using this portal, student can get enrolled, admin can add students and faculties details. Students can search for their faculties." A success message is displayed: "server connection sucessful  
database connection sucessful  
select command success". To the right, there is a table titled "Student Management System" showing faculty details:

Faculty ID	Faculty Name	Subject	Mobile
100	ravindra	computers	9898989898
102	mounika	maths	6567676765
103	sindhu	english	5585558555
104	srinivasarao	telugu	7878787585

Below the faculty table, another success message is shown: "server connection sucessful  
database connection sucessful  
select command success". To the right, there is a table titled "Student Management System" showing student details:

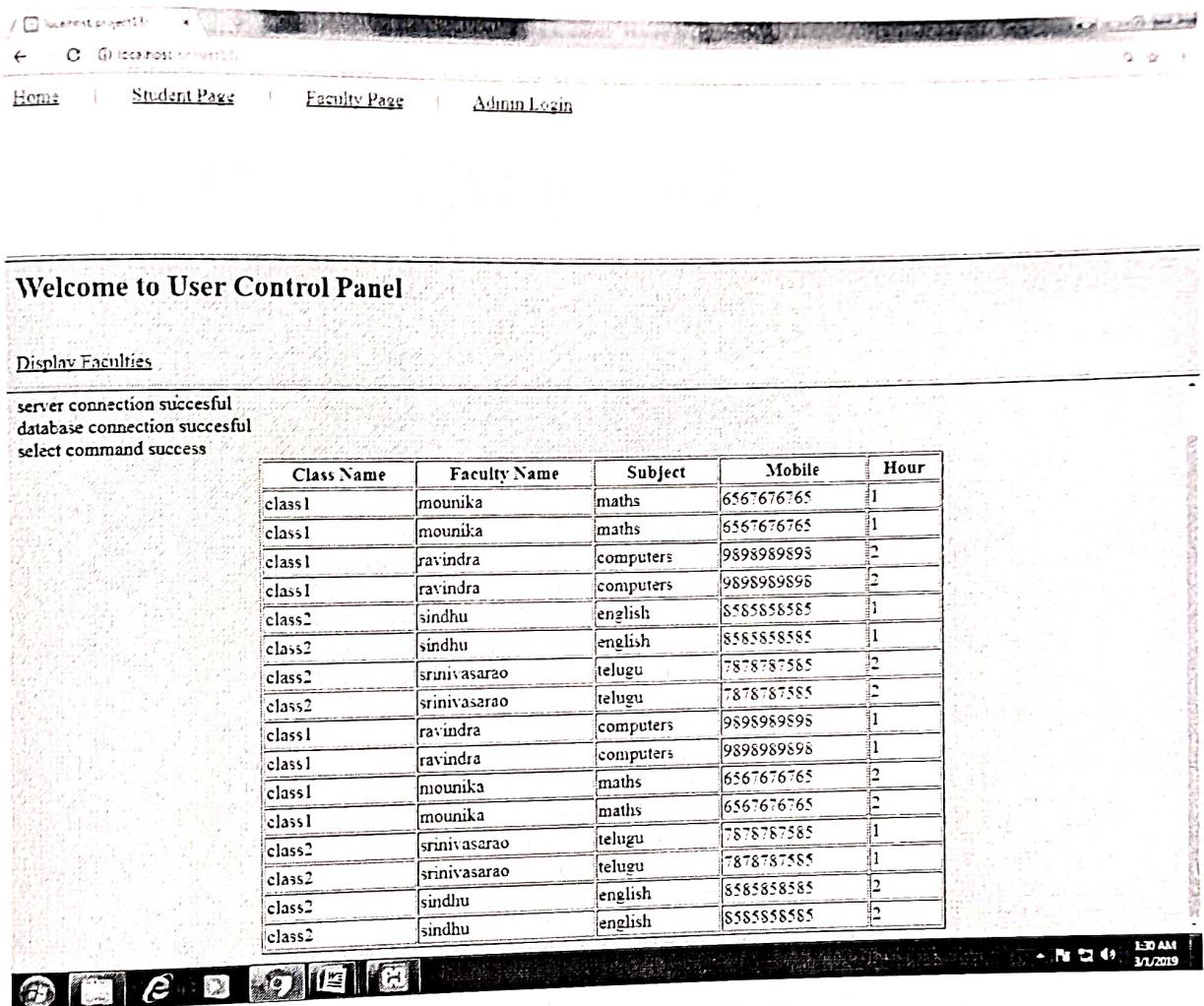
Student Id	Student Name	Class Name	Mobile Number
1	manasa	class1	8767876787
2	ramya	class1	9878987898
3	kiran	class2	9876567656

The browser status bar at the bottom shows icons for file operations and a timestamp: "10 AM 31/12/2019".

[Type text]

[Type text]

### 2) Students page:



[Type text]

[Type text]

### 3) Searching faculty details:

The screenshot shows a web browser window with the URL `localhost/project13`. The page title is "Welcome to Faculties Control Panel". At the top, there are navigation links: "Home", "Student Page", "Faculty Page", and "Admin Login". Below the title, there is a search bar labeled "Search for periods". A table titled "Search for Hours For Faculties" is displayed, showing the following data:

Faculty Name	Subject Name	Hour	Week Day
ravindra	computers	2	monday
ravindra	computers	2	monday
ravindra	computers	2	monday
ravindra	computers	2	monday
ravindra	computers	1	tuesday
ravindra	computers	1	tuesday
ravindra	computers	1	tuesday
ravindra	computers	1	tuesday

At the bottom of the browser window, there is a toolbar with various icons and a status bar showing the date and time.

[Type text]

[Type text]

#### 4)Display all students:

The screenshot shows a web application titled "Welcome to Admin Panel". On the left sidebar, there are links for managing students and faculties. The main content area displays a success message and a table of student data.

**Welcome to Admin Panel**

[Display All Students](#)  
[Add New Student](#)  
[Update Existing Student](#)  
[Delete Existing Student](#)

[Display All Faculties](#)  
[Add New Faculty](#)  
[Update Existing Faculty](#)  
[Delete Existing Faculty](#)

server connection successful  
database connection successful  
select command success

Student ID	Student Name	Class	Mobile
1	manasa	class1	8767876787
2	ramya	class1	9878987898
3	kiran	class2	9876567656
4	sandhya	class2	6567678787

[Type text]

[Type text]

5) Add new student:

The screenshot shows a web application interface. At the top, there is a navigation bar with links for 'Home', 'Student Page', 'Faculty Page', and 'Admin Login'. The main content area is divided into two sections: 'Welcome to Admin Panel' on the left and 'Add New Student' on the right.

**Welcome to Admin Panel**

- [Display All Students](#)
- [Add New Student](#)
- [Update Existing Student](#)
- [Delete Existing Student](#)

- [Display All Faculties](#)
- [Add New Faculties](#)
- [Update Existing Faculty](#)
- [Delete Existing Faculty](#)

**Add New Student**

**Add New Student Details**

Fill the following details.

Student Name	<input type="text"/>
Class	<input type="text"/>
Mobile	<input type="text"/>
<input type="button" value="Add Student"/> <input type="button" value="Reset"/>	

Give Classname as small letters(Ex: class1, class2, etc)

[Type text]

[Type text]

## 6)Update existing student:

The screenshot shows a web application interface. At the top, there is a header bar with a logo, a search bar, and navigation links: Home, Student Page, Faculty Page, and Admin Login. Below the header, on the left, is a sidebar titled "Welcome to Admin Panel" containing links for managing students and faculties. The main content area is titled "Update Existing Student Page". It displays a message about successful database connections and command execution. A table titled "Existing Students" lists four entries with columns for Student ID, Student Name, Class, and Mobile. Below the table, a form is provided for updating student details, with fields for Student ID, Student Name, Class, and Mobile, along with "Update Student" and "Reset" buttons. The bottom of the screen shows a standard Windows taskbar with various icons.

Welcome to Admin Panel

[Display All Students](#)  
[Add New Student](#)  
[Update Existing Student](#)  
[Delete Existing Student](#)

[Display All Faculties](#)  
[Add New Faculties](#)  
[Update Existing Faculty](#)  
[Delete Existing Faculty](#)

Update Existing Student Page

server connection sucessful  
database connection sucessful  
select command success

Student ID	Student Name	Class	Mobile
1	manasa	class1	876-876787
2	ramya	class1	9878987898
3	kiran	class2	9876567656
4	sandhya	class2	656-678787

Fill the following details.

Student Id	
Student Name	
Class	
Mobile	

[Type text]

[Type text]

7) Delete existing student:

The screenshot shows a web application interface. At the top, there is a header bar with links for 'Home', 'Student Page', 'Faculty Page', and 'Admin Login'. Below this is a section titled 'Welcome to Admin Panel' containing links for 'Display All Students', 'Add New Student', 'Update Existing Student', and 'Delete Existing Student'. Another section contains links for 'Display All Faculties', 'Add New Faculty', 'Update Existing Faculty', and 'Delete Existing Faculty'. The main content area is titled 'Delete Existing Student Page' and contains the following text:  
server connection successful  
database connection successful  
select command success

Student ID	Student Name	Class	Mobible
1	manasa	class1	8767876787
2	ramya	class1	9878987898
3	kiran	class2	9876567656
4	sandhya	class2	6567678787

Below the table, a form is displayed with fields for 'Student Id' and 'Student Name', and buttons for 'Delete Student' and 'Reset'. The bottom of the screen shows a toolbar with various icons and a status bar indicating the time as 1:32 AM and the date as 3/2/2019.

3) Display all faculty details:

[Type text]

[Type text]

The screenshot shows a web application titled "Welcome to Admin Panel". On the left sidebar, there are links for managing students and faculties. The main content area displays a success message and a table of faculty information.

server connection successful  
database connection successful  
select command success

faculty ID	faculty Name	subject	Mobile
100	ravindra	computers	9898989898
102	mounika	maths	6567676765
103	sindhu	english	8585858585
104	srinivasarao	telugu	7878787878



[Type text]

[Type text]

8) Add new faculty:

The screenshot shows a web application interface. At the top, there is a header bar with links for 'Home', 'Student Page', 'Faculty Page', and 'Admin Login'. Below this, on the left, is a sidebar titled 'Welcome to Admin Panel' containing links for managing students and faculty. The main content area is titled 'Add New faculty' and contains a form for entering faculty details. The form is labeled 'Add New faculty Details' and includes fields for 'Faculty Name', 'Subject', 'Mobile', and buttons for 'Add faculty' and 'Reset'. A note below the form says 'Give subjectname as small letters(Ex: subject1, subject2, etc)'. The bottom of the screen shows a taskbar with various icons and the system date/time.

Welcome to Admin Panel

[Display All Students](#)  
[Add New Student](#)  
[Update Existing Student](#)  
[Delete Existing Student](#)

[Display All Faculties](#)  
[Add New Faculties](#)  
[Update Existing Faculty](#)  
[Delete Existing Faculty](#)

Add New faculty

Add New faculty Details

Fill the following details.

Faculty Name	
subject	
Mobile	
	<input type="button" value="Add faculty"/> <input type="button" value="Reset"/>

Give subjectname as small letters(Ex: subject1, subject2, etc)

[Type text]

[Type text]

### 9)Update existing faculty:

The screenshot shows a web application interface. At the top, there is a navigation bar with links for Home, Student Page, Faculty Page, and Admin Login. The main content area is divided into two sections: 'Welcome to Admin Panel' on the left and 'Update Existing faculty Page' on the right.

**Welcome to Admin Panel**

- [Display All Students](#)
- [Add New Student](#)
- [Update Existing Student](#)
- [Delete Existing Student](#)
- [Display All Faculties](#)
- [Add New Faculties](#)
- [Update Existing Faculty](#)
- [Delete Existing Faculty](#)

**Update Existing faculty Page**

server connection successful  
database connection successful  
select command success

**Existing facultys**

faculty ID	faculty Name	subject	Mobile
100	ravindra	computers	9898989898
102	mounika	maths	6567676765
103	sindhu	english	8585858585
104	srinivasarao	telugu	7878787585

Fill the following details.

faculty Id	
faculty Name	
subject	
Mobile	

1:13 AM 3/1/2019

[Type text]

[Type text]

10)Delete existing faculty:

Welcome to Admin Panel

[Display All Students](#)  
[Add New Student](#)  
[Update Existing Student](#)  
[Delete Existing Student](#)

[Display All Faculties](#)  
[Add New Faculties](#)  
[Update Existing Faculty](#)  
[Delete Existing Faculty](#)

Delete Existing faculty Page

server connection successful  
database connection successful  
select command success

faculty ID	faculty Name	subject	Mobile
100	ravindra	computers	9898989898
102	mounika	maths	6367676765
103	sindhu	english	8585858585
104	srinivasarao	telugu	7878787585

Fill the following details.

faculty Id	
faculty Name	
<input type="button" value="Delete faculty"/> <input type="button" value="Reset"/>	

[Type text]

[Type text]

## 9.TEST CASES

- 1) Test Case 1: Admin Login- check username and password values with the values that are already stored in the server. If these values are matched with the values stored in the server, then only the admin gets authentication.- It is success.
- 2) Test Case 2: faculty Login: check username and password values with the values that are already stored in the server. If these values are matched with the values stored in the server, then only the customer gets authentication.- It is success.
- 3) Test Case 3: search for periods: To search for periods. The students must be registered student in our school. Students can search for periods. It is success.

[Type text]

[Type text]

## 10.LIMITATIONS OF PROJECT

In this project we developed all the functionalities of school management applications. Here limitations are, this project not contains all the roles of faculty and students. Here we used only admin to manage and maintain applications. In real world applications, multiple branches of schools exists. Here in this project we used only one branch of students.

[Type text]

[Type text]

## 11. SCOPE OF FUTURE REFERENCE

This project is very much used in future for school related applications. Here, we developed this application with fully secured server side scripting language PHP. All the functionalities of banking application are included in this project.

Some of the features which can be added in this project are:

• Online Transfer of Money between different accounts.

• Online Payment of Bills like Electricity Bill, Water Bill, etc.

• Online Transfer of Money between different accounts.

• Online Payment of Bills like Electricity Bill, Water Bill, etc.

• Online Transfer of Money between different accounts.

• Online Payment of Bills like Electricity Bill, Water Bill, etc.

• Online Transfer of Money between different accounts.

• Online Payment of Bills like Electricity Bill, Water Bill, etc.

• Online Transfer of Money between different accounts.

• Online Payment of Bills like Electricity Bill, Water Bill, etc.

[Type text]

[Type text]

## BIBILOGRAPHY

### BOOK REFERENCES

1. C. J. Date, A. Kannan and S. Swamynathan, *An Introduction to Database Systems*, Pearson Education, Eighth Edition, 2009.
2. Abraham Silberschatz, Henry F. Korth and S. Sudarshan, *Database System Concepts*, McGraw-Hill Education (Asia), Fifth Edition, 2006.
3. Shio Kumar Singh, *Database Systems Concepts, Designs and Application*, Pearson Education, Second Edition, 2011.
4. Peter Rob and Carlos Coronel, *Database Systems Design, Implementation and Management*, Thomson Learning-Course Technology, Seventh Edition, 2007.
5. Patrick O'Neil and Elizabeth O'Neil, *Database Principles, Programming and Performance*, Harcourt Asia Pte. Ltd., First Edition, 2001.
6. Atul Kahate, *Introduction to Database Management Systems*, Pearson ...

[Type text]