

1. Introduction

1.1 Project description

The main objective of the Student Management System is to manage the details of Profiles, Logins. It manages all the information about Profiles, Student, password. The project is totally built at administrative end and thus only the administrator is guaranteed the access.

Now a Days everyone required a software to manage student details. In this you can see all the information of the students and the student can also login their profile.

Student management system using PHP and MySQL is a web-based application. Student Management Project is software that 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. Our online Student Management System in PHP deals with the various activities related to the students.

1.2 Project Profile

Project Title:	Student Management System
Defination:	Student Management System is the system where all the aspects related to the proper management of student information is these aspects involve managing information about the student details.
Developed For:	SDJ International College, Vesu, Surat
Project Guide(s):	
Front End:	Visual studio Code, HTML
Scripting language :	PHP, JavaScript
Back End :	Xampp Server
Operating System:	Microsoft Windows 10
Tools used for ERD & DFD :	Microsoft Word
Submitted By:	Ashish Sarvaiya

2. Environment Description

2.1 Hardware and Software Requirements

A. Hardware Requirements :

- System : **Intel core i5 Processor**
- Hard Disk : **520GB**
- Ram : **4GB**

B. Software Requirements :

- Operating system : **Microsoft Windows 10**
- Coding Language : **PHP**
- Data Base: **MySQL**

2.2 Technologies Used

- Front End : **HTML**
- Designing : **CSS , Bootstrap , jQuery**
- Scripting Language : **JavaScript**
- Back-End : **Xampp Server**

3. System Analysis and Planning

3.1 Existing System and its Drawbacks

- The student result management system is prone to hacks.
- Administration can edit or modify scores after the deadline.
- Extensive modules and features make it difficult for a user to utilize the application.
- Minor technical glitches and issues.

3.2 Feasibility Study

The purpose of the feasibility study is to determine whether the problem can be solved with minimum cost as soon as possible. Nowadays, the price of the computer has been very low, while the performance has made considerable progress.

3.3 Requirement Gathering and Analysis

❖ Functional Requirement :

- Creation of the new record for the new student.
- Deletion of the record which already exists in the system based on the requirement of the institute.
- Update in the record which is present in the system as per the need.
- Generate the report on the attendance of the student as per his/her record.
- Admin's handle of the department, this function eases the process of management.

❖ Non-Functional Requirement :

- The security of the system is maintained by providing a login interface to the user. Only those who have the login id and password can enter the system.
- User-Friendly as the system is very interactive and can be easily operated.
- Maintainability and reliability if the system is kept very thoroughly as all the records kept in the database have the backups and system can restore if there is power loss.

4. Proposed System

4.1 Scope

The proposed system will affect or interface with the user and admin.

The system works and fulfills all the functionalities as per the proposed system. It will provide reduced response time against the queries made by different users. This project is based on PHP language with MySQL database which manage the details of the students because it is a tedious job for any organization. Student information system will store all the details of the students including their background information.

All possible features such as verification, validation, security, user friendliness etc. have been considered.

4.2 Project modules

- The two types of modules present in this project are
 1. Admin
 2. User

4.3 Module wise objectives/functionalities Constraints

1. Admin :

- Dashboard: In this section, admin can see all detail in brief like Total Classes, Total Students, Total Class Notices and Total Public Notices.
- Class: In this section, admin can manage class (Add/Update/Delete).
- Students: In this section, admin can manage the students (Add/Update/Delete).
- Notices: In this section, the admin can manage notices (Add/Update/Delete).
- Public Notices: In this section, the admin can manage public notices.
- Pages: In this section admin, can manage about us and contact us page of administration.
- Search: In this section admin, can search students by their student id.
- Reports: In this section admin, can view how much students has been register in particular period.
- Admin can also update his profile, change the password and recover the password.

2. User (Students) :

- Dashboard: It is welcome page for students.
- View Notices: In this section, user can view notices which are announced by administrator.
- Student can also view his profile, change the password and recover the password.

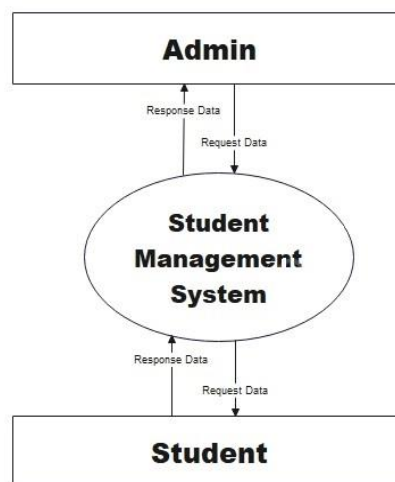
User (Non-Register):

- Home: It is welcome page for user.
- About: User can view about us page.
- Contact: User can view contact us page.

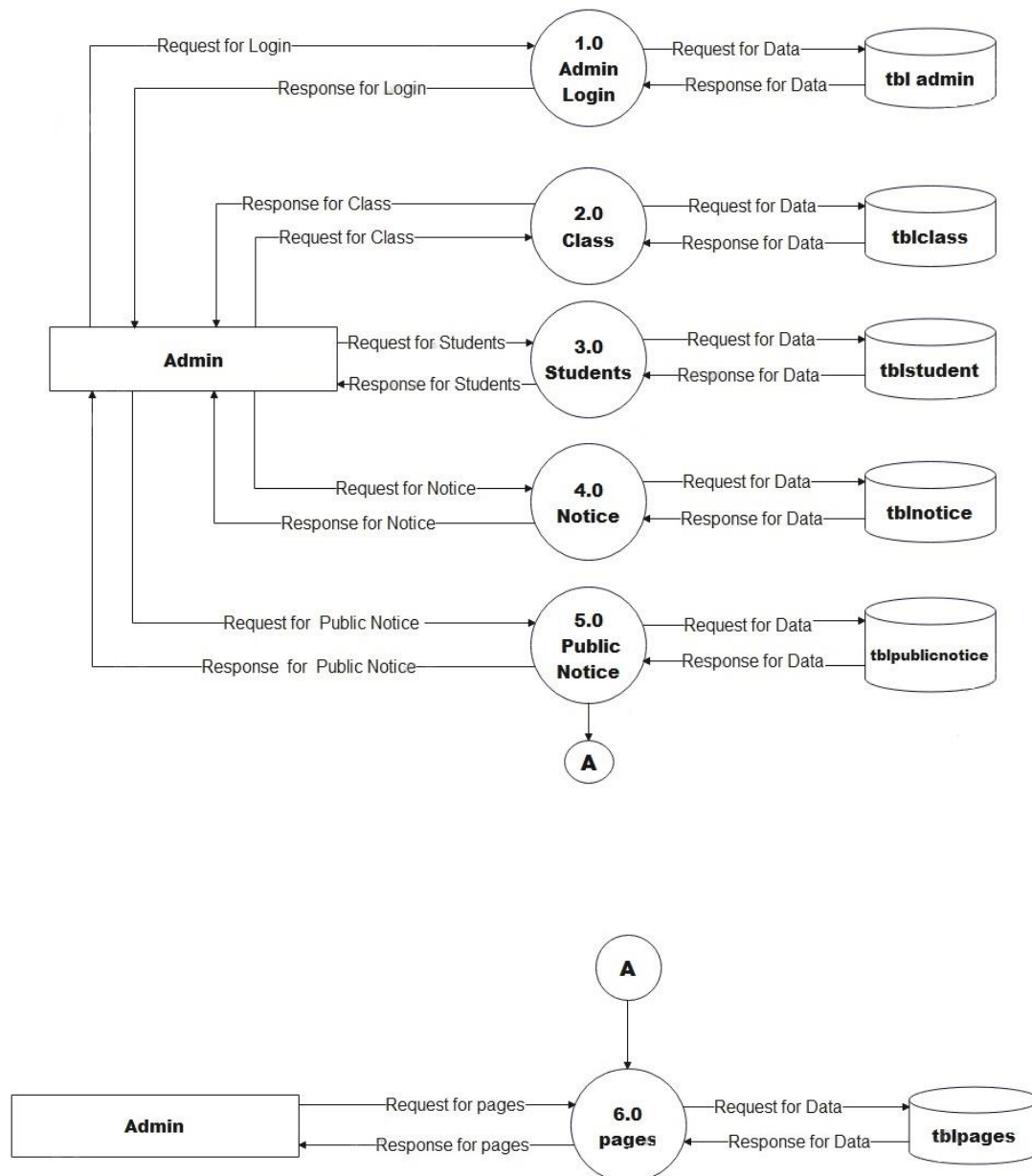
5. Detail Planning

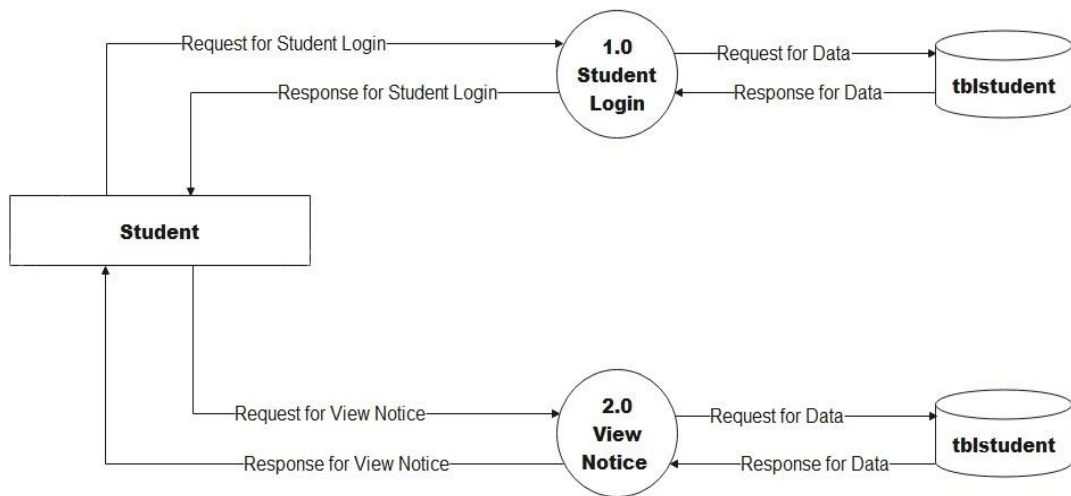
5.1 Data Flow Diagram / UML

1) Context Level :

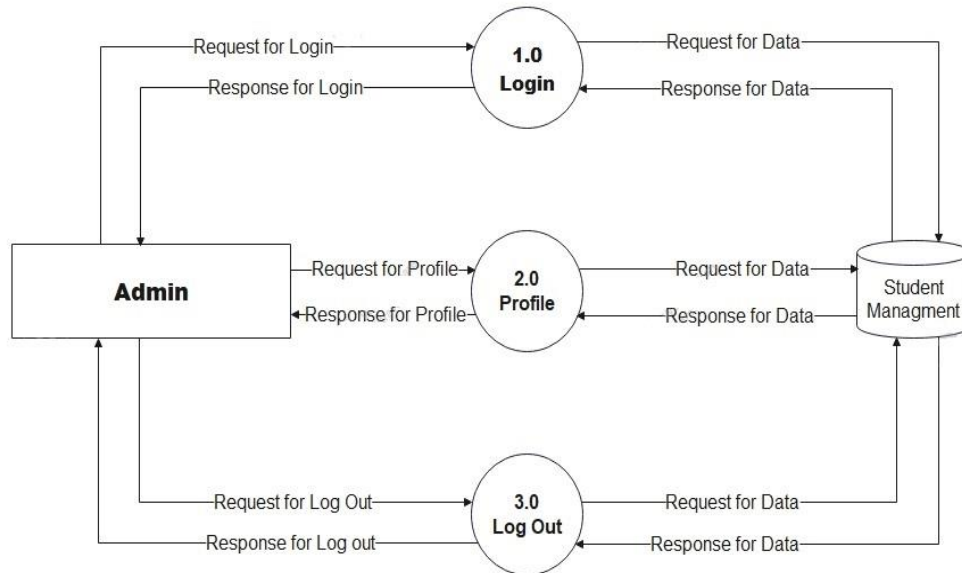


2) First Level DFD of Admin Side :



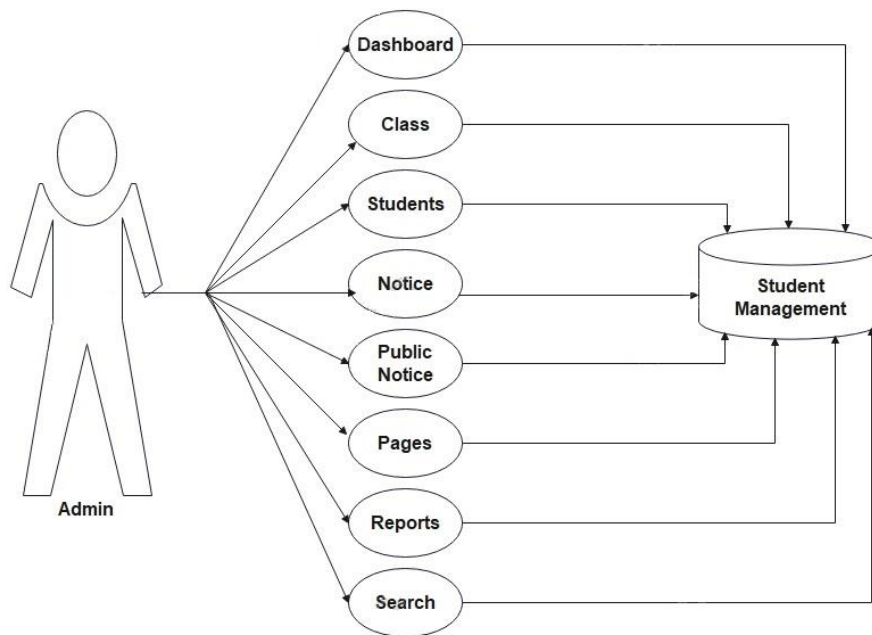
3) First Level DFD of Student Side :

4) Second Level DFD of Admin Side :

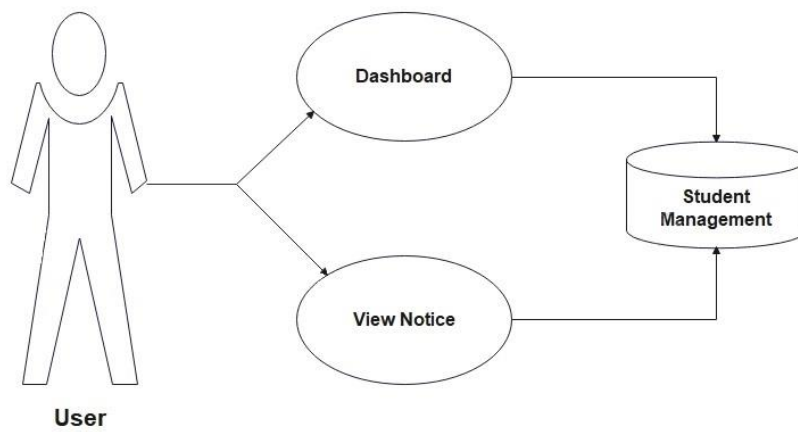


5.2 Process Specification / Activity Flow Diagram

1) Use Case Diagram :

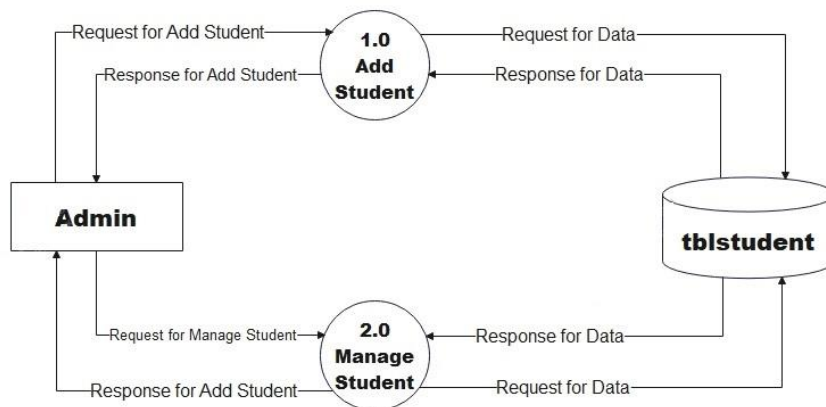


2) Student :

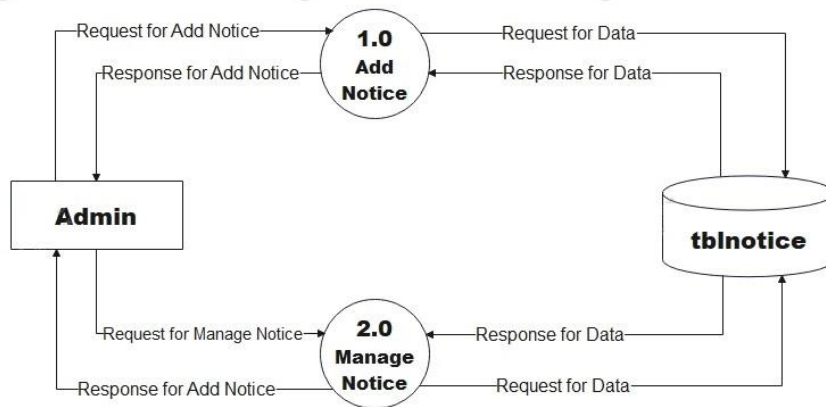


5.3 Data Dictionary

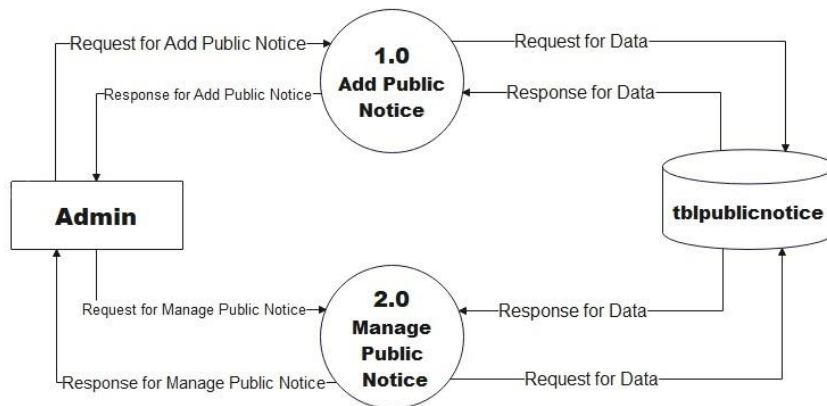
1) Student Management :



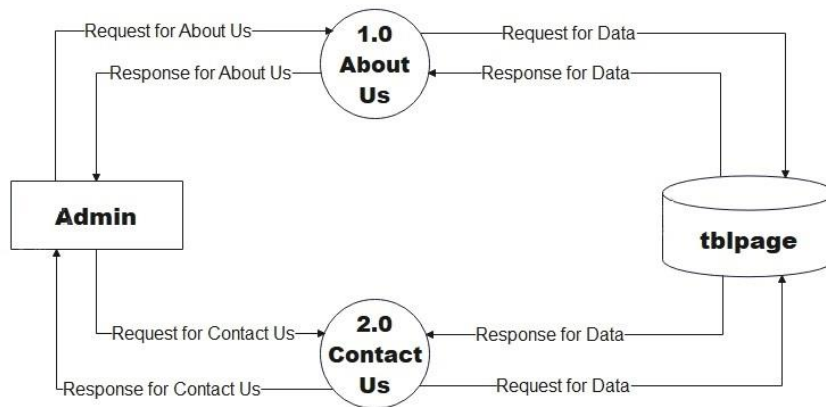
2) Notice Management :



3) Public Notice Management :

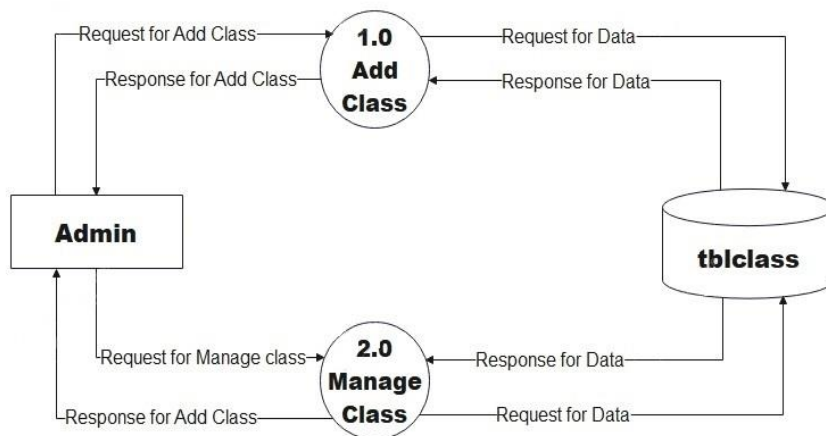


4) Pages Management :



5.4 Entity-Relationship Diagram / Class Diagram

1) Class Management :



6. System Design

6.1 Database Design

Database Handling Table	
No.	Table_Name
1.	tbladmin
2.	tblclass
3.	tblnotice
4.	tblpage
5.	tblpublicnotice
6.	tblstudent

1. tbladmin		
Column	Datatype	Constraint
Id	int(10)	AUTO_INCREMENT PRIMARY_KEY
AdminName	varchar(120)	Admin name required
UserName	varchar(120)	Username required
MobileNumber	bigint(10)	Phone no. required
Email	varchar(200)	Email required
Password	varchar(200)	Password required
AdminRegdate	timestamp	

2. tblclass		
Column	Datatype	Constraint
Id	int(5)	AUTO_INCREMENT PRIMARY_KEY
ClassName	varchar(50)	class name required
Section	varchar(20)	Section required
CreationDate	timestamp	

3. tblnotice

Column	Datatype	Constraint
Id	int(5)	AUTO_INCREMENT PRIMARY_KEY
NoticeTitle	mediumtext	Notice title required
ClassId	int(10)	required
NoticeMsg	mediumtext	required
CreationDate	timestemp	

4. tblpage

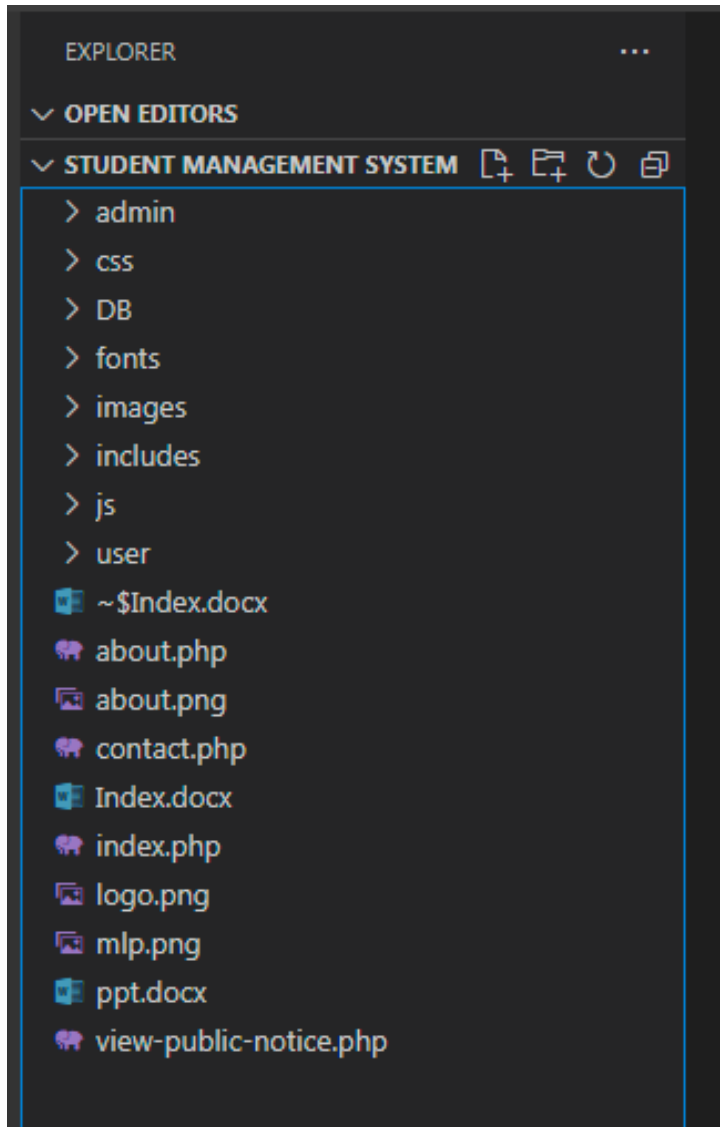
Column	Datatype	Constraint
Id	int(10)	AUTO_INCREMENT PRIMARY_KEY
PageType	varchar(200)	
PageTitle	mediumtext	required
PageDescription	mediumtext	required
Email	varchar(200)	Email required
MobileNumber	Bigint(10)	required
UpdationDate	date	

5. tblpublicnotice

Column	Datatype	Constraint
Id	int(10)	AUTO_INCREMENT PRIMARY_KEY
NoticeTitle	varchar(200)	required
NoticeMessage	mediumtext	required
CreationDate	timestamp	

6. tbladmin		
Column	Datatype	Constraint
Id	int(10)	AUTO_INCREMENT PRIMARY_KEY
StudentName	varchar(200)	required
StudentEmail	varchar(200)	required
StudentClass	varchar(100)	required
Gender	varchar(50)	required
DOB	Date	required
StuID	Varchar(200)	required
FatherName	mediumtext	required
MotherName	mediumtext	optinal
ContactNumber	bigint(10)	required
AltenateNumber	bigint(10)	required
Address	mediumtext	required
UserName	Varchar(200)	required
Password	Varchar(200)	Required
Image	Varchar(200)	Null
DateofAdmission	timestamp	

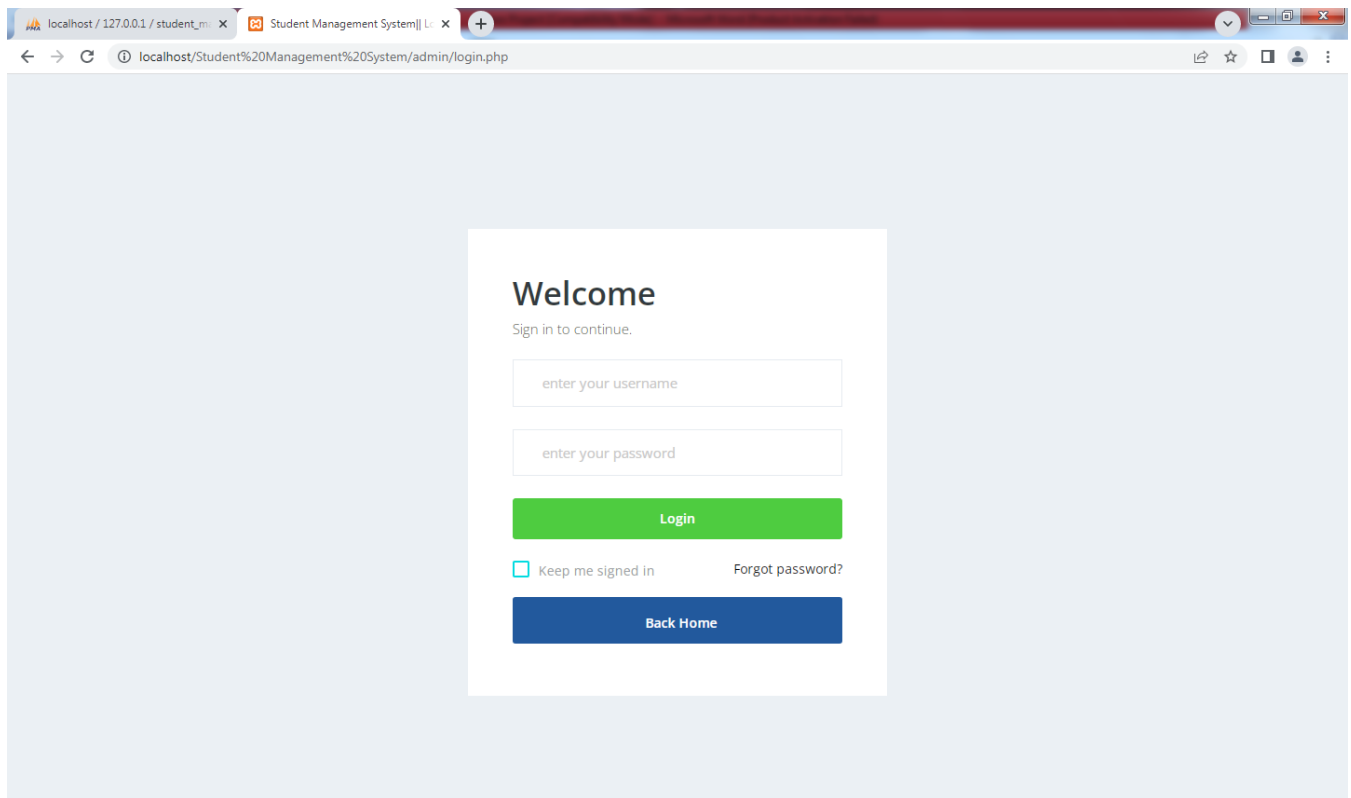
6.2 Directory Structure



6.3 Input Design

A. Admin Side :

1. Admin Login :



localhost / 127.0.0.1 / student_m... x Student Management System|| L... x

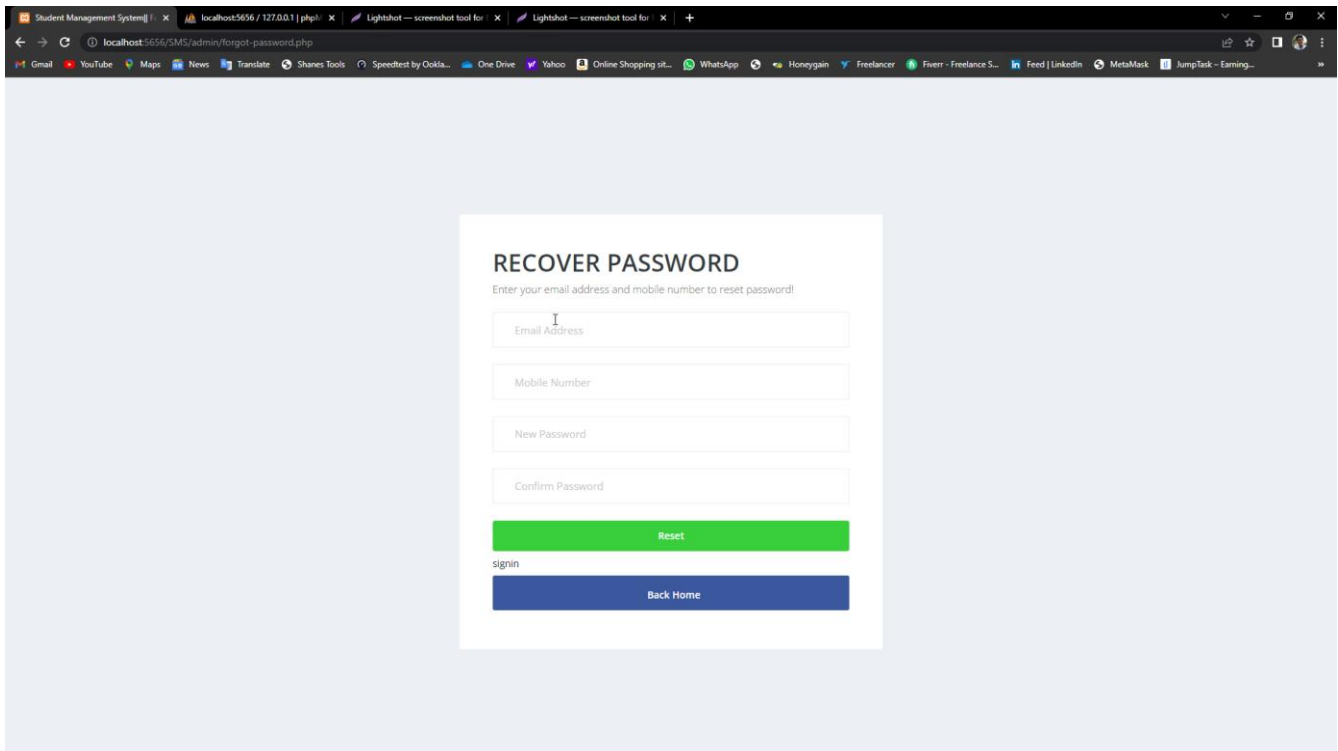
localhost/Student%20Management%20System/admin/login.php

Welcome

Sign in to continue.

☐ Keep me signed in [Forgot password?](#)

2. Admin Recover Password :



The screenshot shows a web browser window with the address bar displaying 'localhost:5656/SMS/admin/forgot-password.php'. The page title is 'Student Management System'. The main content area features a 'RECOVER PASSWORD' form. The form includes a sub-header 'Enter your email address and mobile number to reset password!!' and four input fields: 'Email Address', 'Mobile Number', 'New Password', and 'Confirm Password'. Below the input fields is a green 'Reset' button. At the bottom of the form, there is a 'signin' label and a blue 'Back Home' button.

RECOVER PASSWORD
Enter your email address and mobile number to reset password!!

Email Address

Mobile Number

New Password

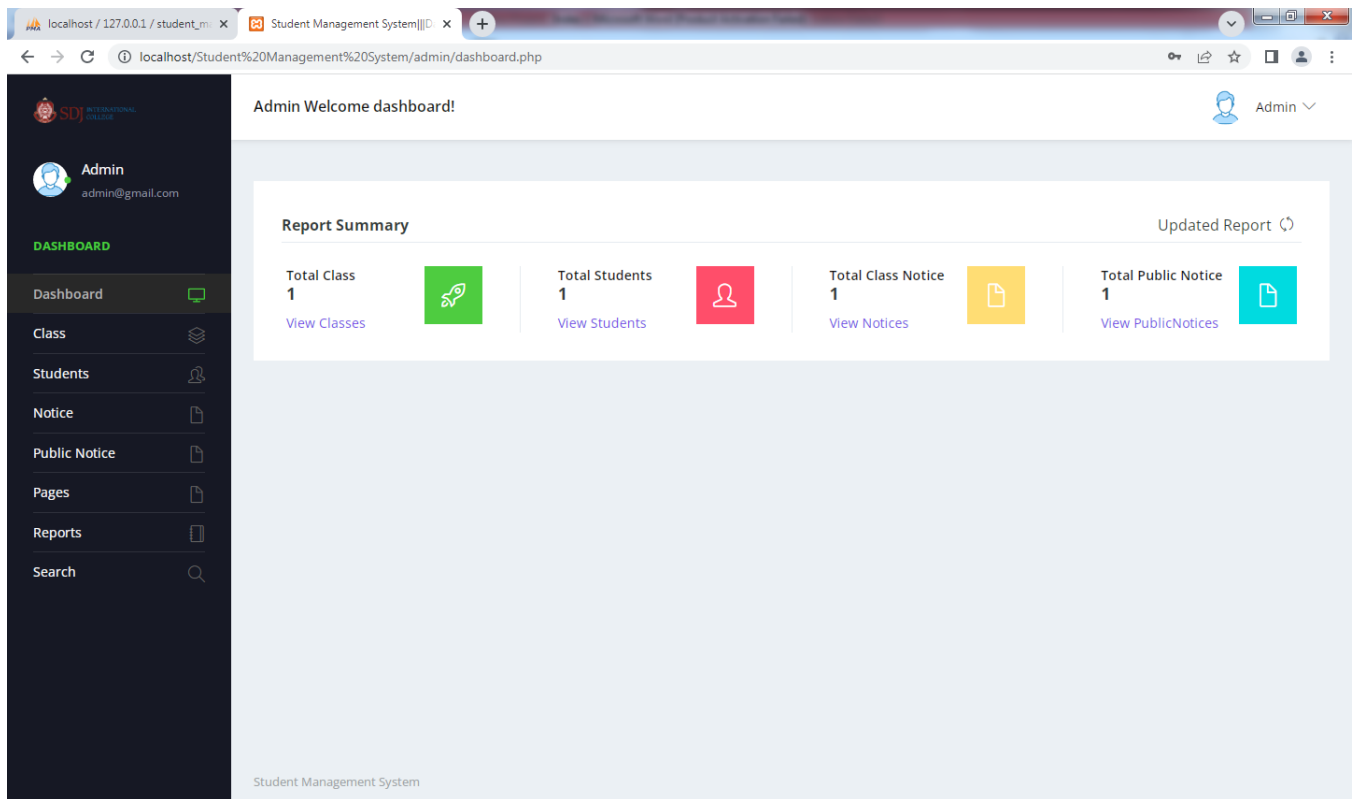
Confirm Password

Reset

signin

Back Home

3. Admin Dashboard :



Admin Welcome dashboard!

Admin
admin@gmail.com

DASHBOARD

- Dashboard
- Class
- Students
- Notice
- Public Notice
- Pages
- Reports
- Search

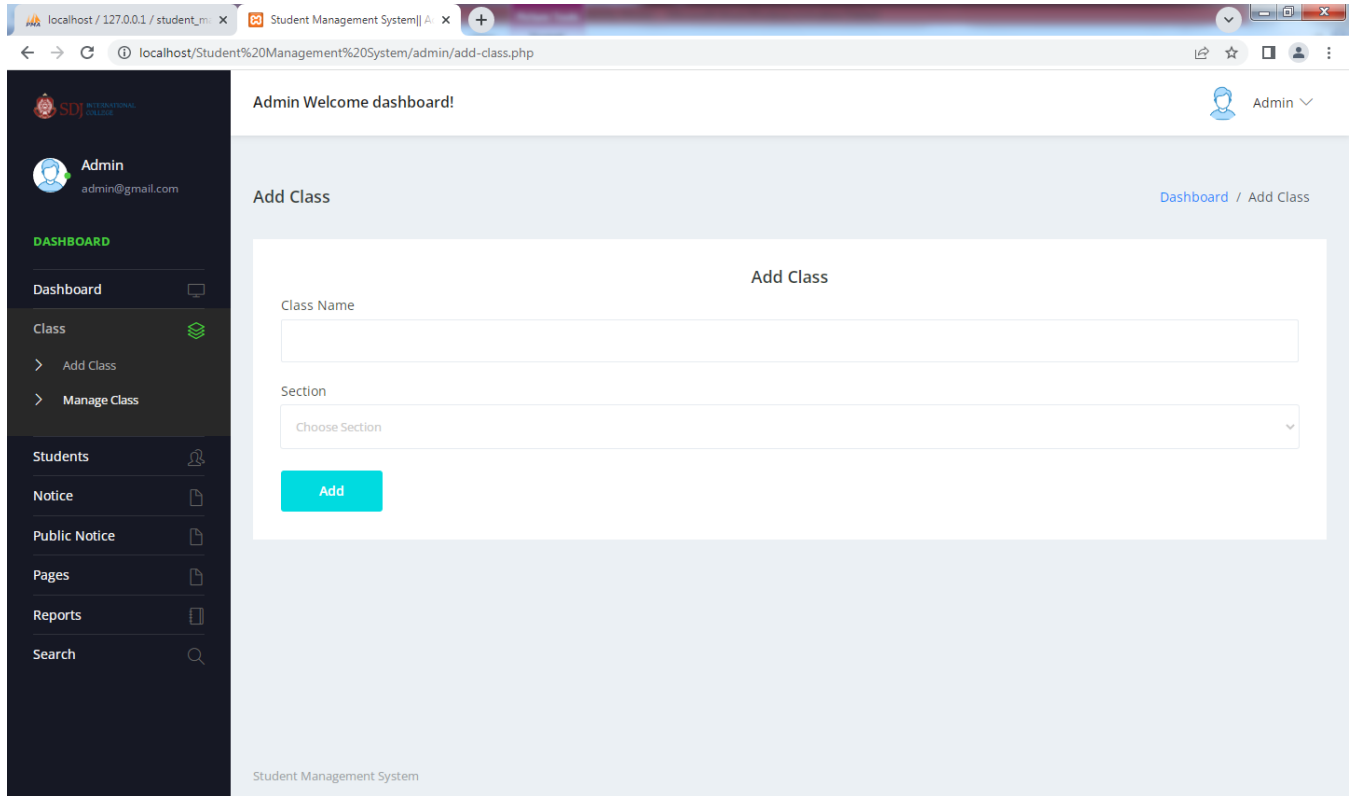
Report Summary Updated Report ↻

Total Class 1 View Classes	Total Students 1 View Students	Total Class Notice 1 View Notices	Total Public Notice 1 View Public Notices
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Student Management System

4. Class Management :

- Add Class :

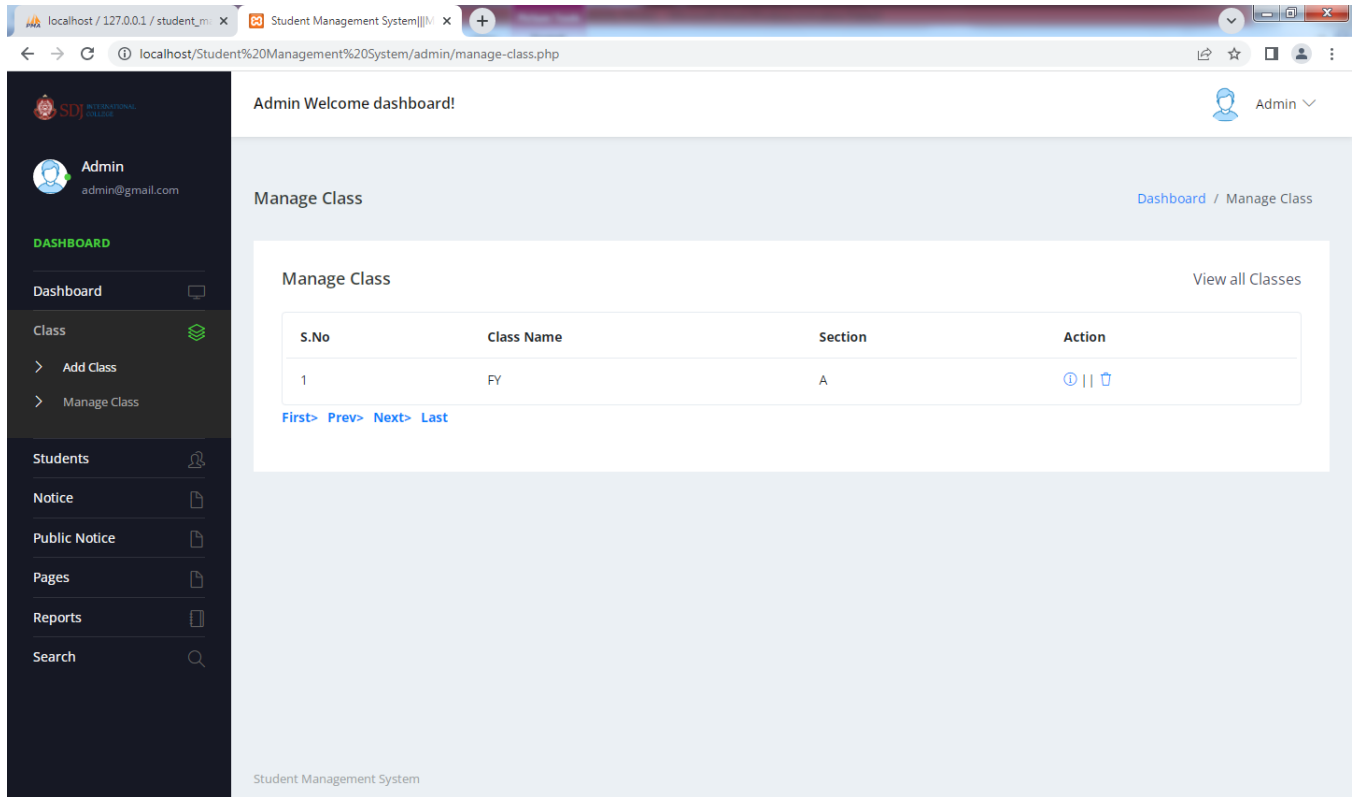


The screenshot displays the 'Add Class' page within the Student Management System's admin dashboard. The browser address bar shows the URL: `localhost/Student%20Management%20System/admin/add-class.php`. The dashboard header includes 'Admin Welcome dashboard!' and a user profile for 'Admin'. The left sidebar contains a navigation menu with options: Dashboard, Class (selected), Add Class, Manage Class, Students, Notice, Public Notice, Pages, Reports, and Search. The main content area is titled 'Add Class' and features a form with the following fields:

- Class Name**: A text input field.
- Section**: A dropdown menu with the placeholder text 'Choose Section'.
- Add**: A blue button to submit the form.

The footer of the page reads 'Student Management System'.

Manage Class :



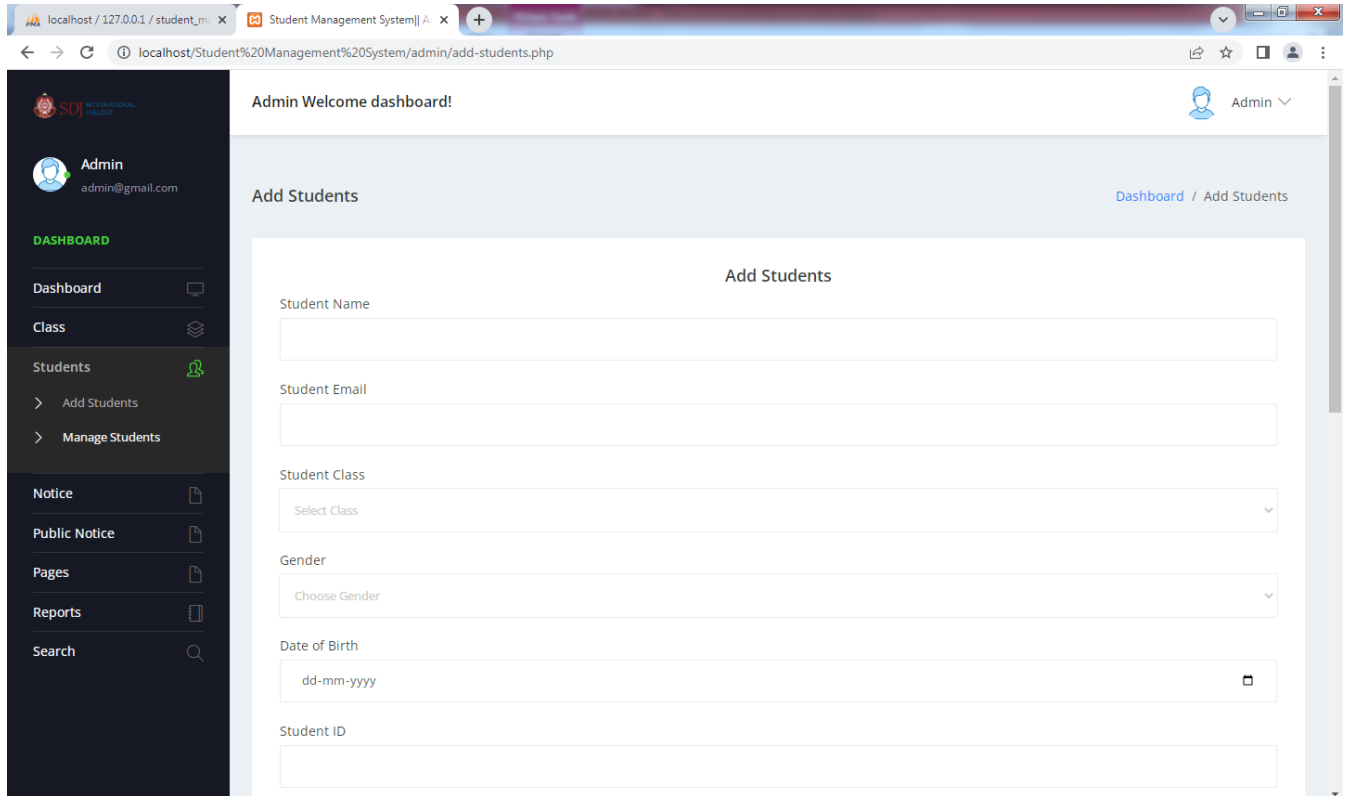
The screenshot shows a web browser window displaying the 'Student Management System' admin dashboard. The page title is 'Admin Welcome dashboard!'. The user is logged in as 'Admin' (admin@gmail.com). The left sidebar contains a menu with options: Dashboard, Class (with sub-options 'Add Class' and 'Manage Class'), Students, Notice, Public Notice, Pages, Reports, and Search. The main content area is titled 'Manage Class' and includes a 'View all Classes' link. A table displays the following data:

S.No	Class Name	Section	Action
1	FY	A	🔍 🗑️

Below the table are pagination links: [First>](#) [Prev>](#) [Next>](#) [Last](#). The footer of the page reads 'Student Management System'.

5. Student Management :

▪ Add Student :



Admin Welcome dashboard! Admin

Add Students Dashboard / Add Students

Add Students

Student Name

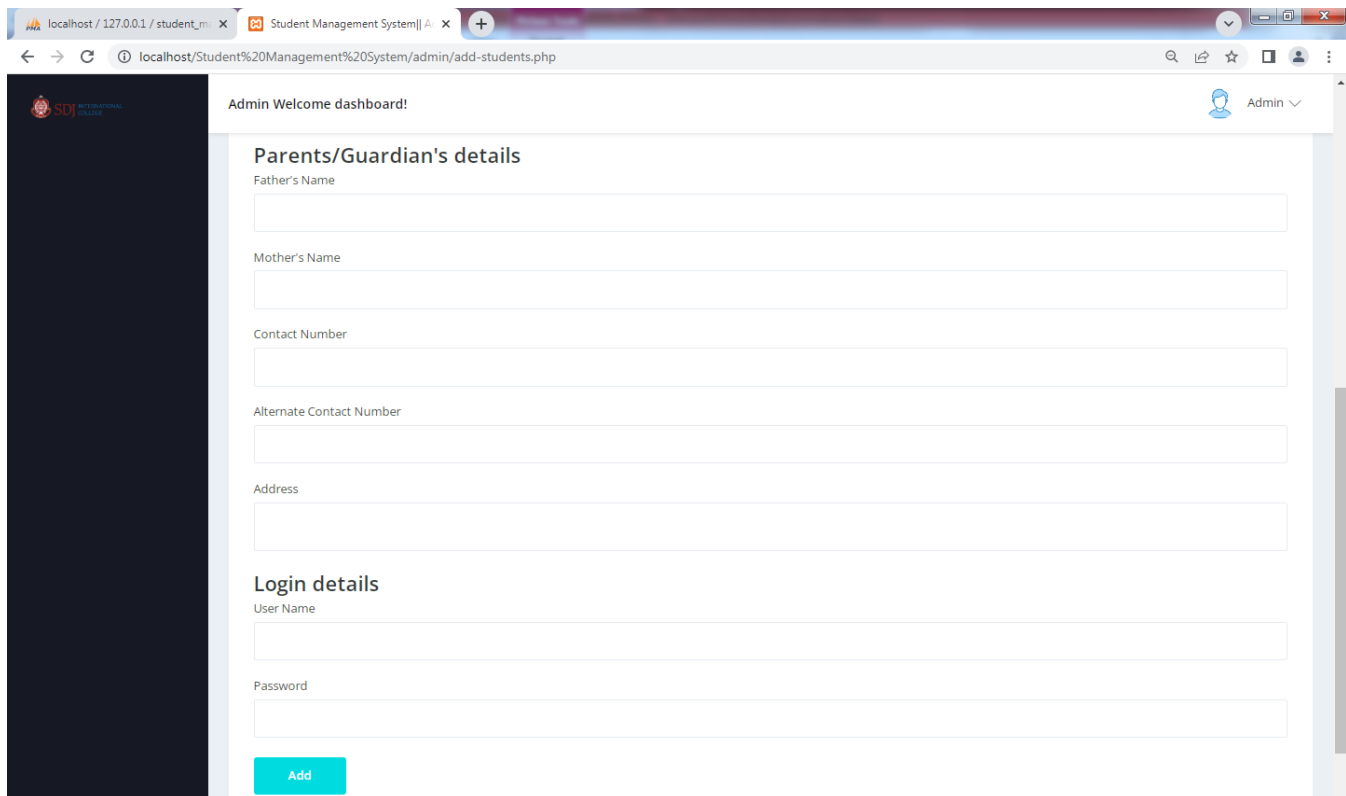
Student Email

Student Class

Gender

Date of Birth

Student ID



Admin Welcome dashboard! Admin

Parents/Guardian's details

Father's Name

Mother's Name

Contact Number

Alternate Contact Number

Address

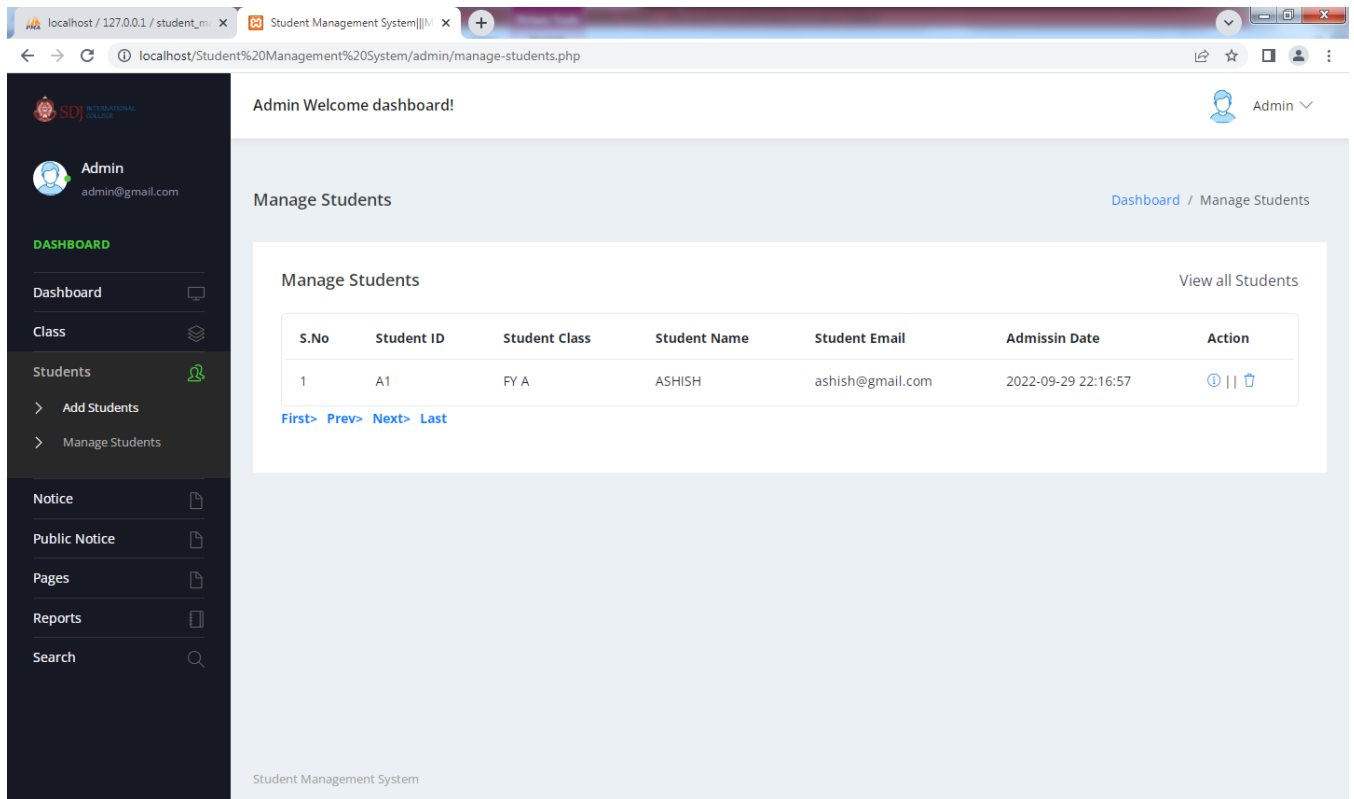
Login details

User Name

Password

Add

Manage Student :



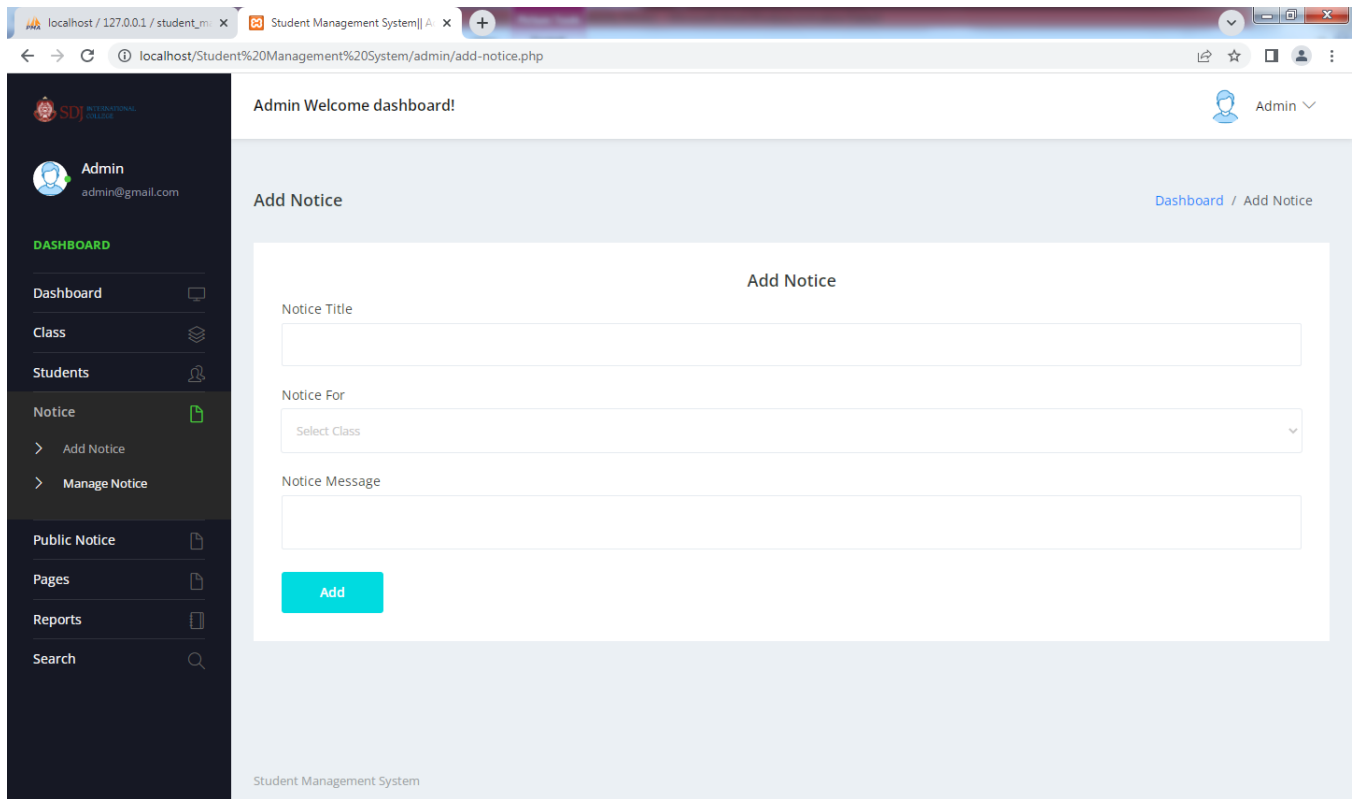
The screenshot shows the 'Manage Students' page in the Student Management System. The browser address bar indicates the URL is localhost/Student%20Management%20System/admin/manage-students.php. The dashboard header includes 'Admin Welcome dashboard!' and a user profile for 'Admin'. The left sidebar contains navigation links for Dashboard, Class, Students (with sub-links for Add Students and Manage Students), Notice, Public Notice, Pages, Reports, and Search. The main content area is titled 'Manage Students' and includes a 'View all Students' link. A table displays student information with columns: S.No, Student ID, Student Class, Student Name, Student Email, Admissin Date, and Action. The table contains one row for student 'ASHISH' with ID 'A1' and email 'ashish@gmail.com'. Below the table are pagination links: First>, Prev>, Next>, Last.

S.No	Student ID	Student Class	Student Name	Student Email	Admissin Date	Action
1	A1	FY A	ASHISH	ashish@gmail.com	2022-09-29 22:16:57	🔔 🗑️

First> Prev> Next> Last

6. Notice Management :

- Add Notice :

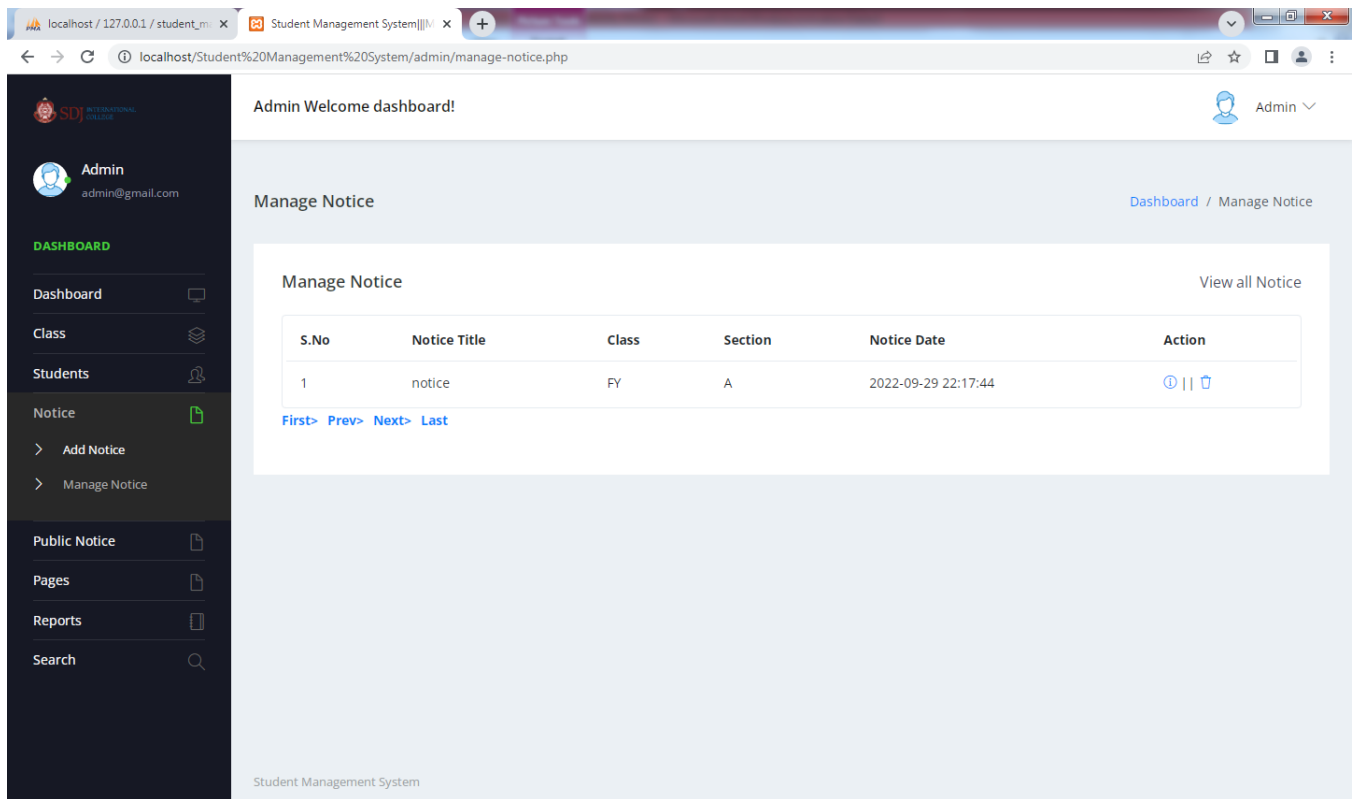


The screenshot displays the 'Add Notice' page within the Student Management System's admin dashboard. The browser address bar shows the URL: `localhost/Student%20Management%20System/admin/add-notice.php`. The dashboard header includes 'Admin Welcome dashboard!' and a user profile for 'Admin'. The left sidebar menu lists various options: Dashboard, Class, Students, Notice (with sub-items 'Add Notice' and 'Manage Notice'), Public Notice, Pages, Reports, and Search. The main content area is titled 'Add Notice' and contains the following form fields:

- Notice Title**: A text input field.
- Notice For**: A dropdown menu with the option 'Select Class'.
- Notice Message**: A large text area for the message content.
- Add**: A blue button to submit the form.

The footer of the page reads 'Student Management System'.

Manage Notice :



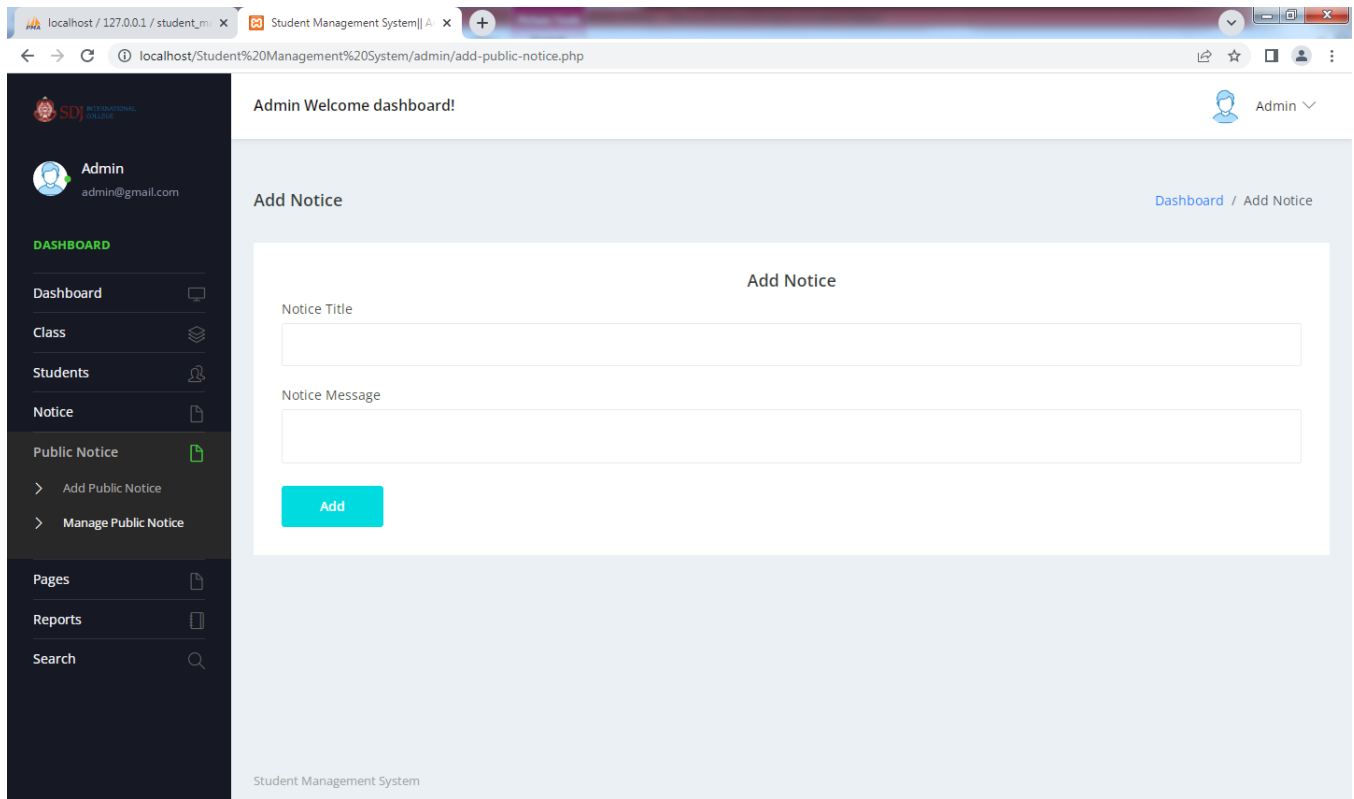
The screenshot shows the 'Manage Notice' page in the Student Management System. The browser address bar indicates the URL is `localhost/Student%20Management%20System/admin/manage-notice.php`. The dashboard header includes a welcome message 'Admin Welcome dashboard!' and a user profile for 'Admin' with email 'admin@gmail.com'. The left sidebar contains a navigation menu with options: Dashboard, Class, Students, Notice (selected), Public Notice, Pages, Reports, and Search. The 'Notice' section is expanded, showing 'Add Notice' and 'Manage Notice' (selected). The main content area is titled 'Manage Notice' and includes a 'View all Notice' link. A table displays the following data:

S.No	Notice Title	Class	Section	Notice Date	Action
1	notice	FY	A	2022-09-29 22:17:44	Info Edit Delete

Below the table, there are pagination links: [First](#) [Prev](#) [Next](#) [Last](#). The footer of the page reads 'Student Management System'.

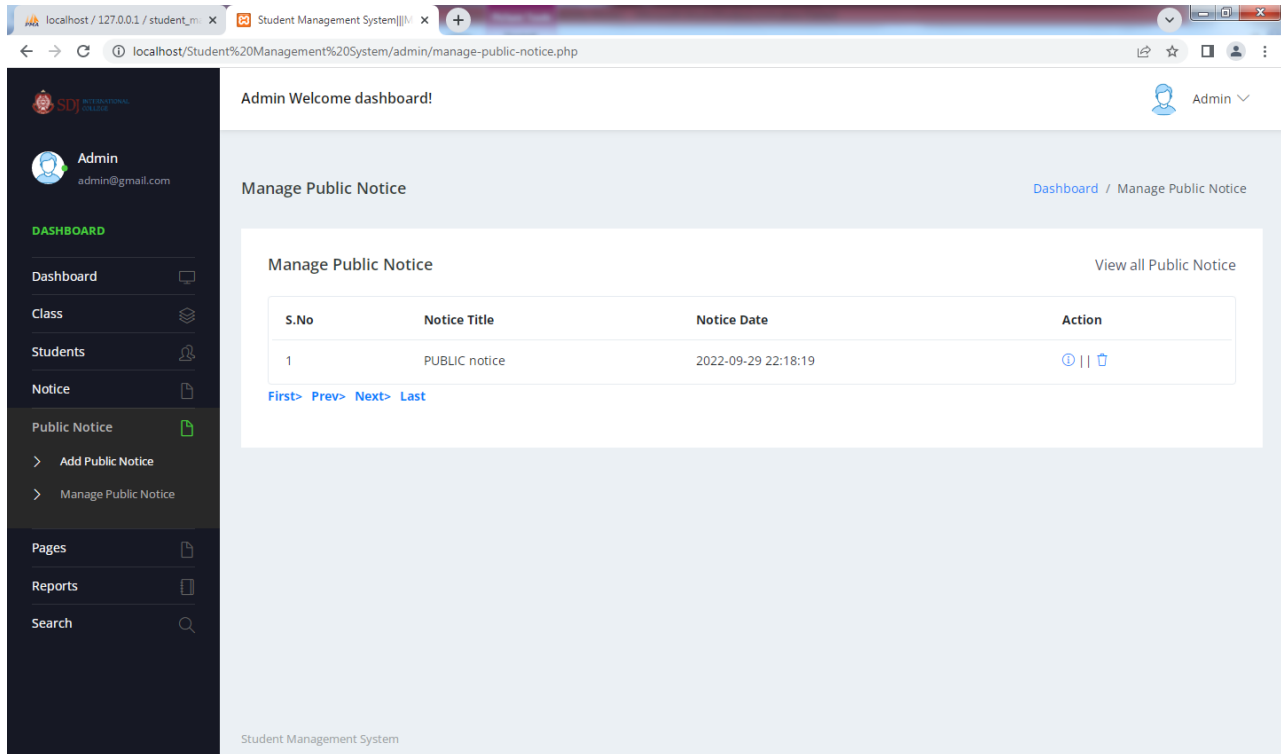
7. Public Notice Management :

- Add Public Notice :



The screenshot displays the 'Add Notice' page within the Student Management System's admin dashboard. The browser address bar shows the URL: `localhost/Student%20Management%20System/admin/add-public-notice.php`. The dashboard header includes a welcome message 'Admin Welcome dashboard!' and a user profile 'Admin' with a dropdown arrow. The left sidebar menu is dark-themed and lists various system components: Dashboard, Class, Students, Notice, Public Notice (highlighted with a green icon), Pages, Reports, and Search. Under 'Public Notice', there are sub-links for 'Add Public Notice' and 'Manage Public Notice'. The main content area is titled 'Add Notice' and contains two text input fields: 'Notice Title' and 'Notice Message'. Below these fields is a blue 'Add' button. A breadcrumb trail at the top right of the content area reads 'Dashboard / Add Notice'. The footer of the page indicates 'Student Management System'.

▪ **Manage Public Notice :**



The screenshot shows a web browser window with the URL `localhost/Student%20Management%20System/admin/manage-public-notice.php`. The page displays the Admin dashboard with a sidebar menu on the left. The main content area is titled "Manage Public Notice" and includes a table with one row of data. The table has columns for S.No, Notice Title, Notice Date, and Action. The data row shows S.No 1, Notice Title "PUBLIC notice", Notice Date "2022-09-29 22:18:19", and Action links for info, edit, and delete. The sidebar menu includes options for Dashboard, Class, Students, Notice, Public Notice (with sub-options Add Public Notice and Manage Public Notice), Pages, Reports, and Search. The footer of the page reads "Student Management System".

Admin Welcome dashboard! Admin

Manage Public Notice Dashboard / Manage Public Notice

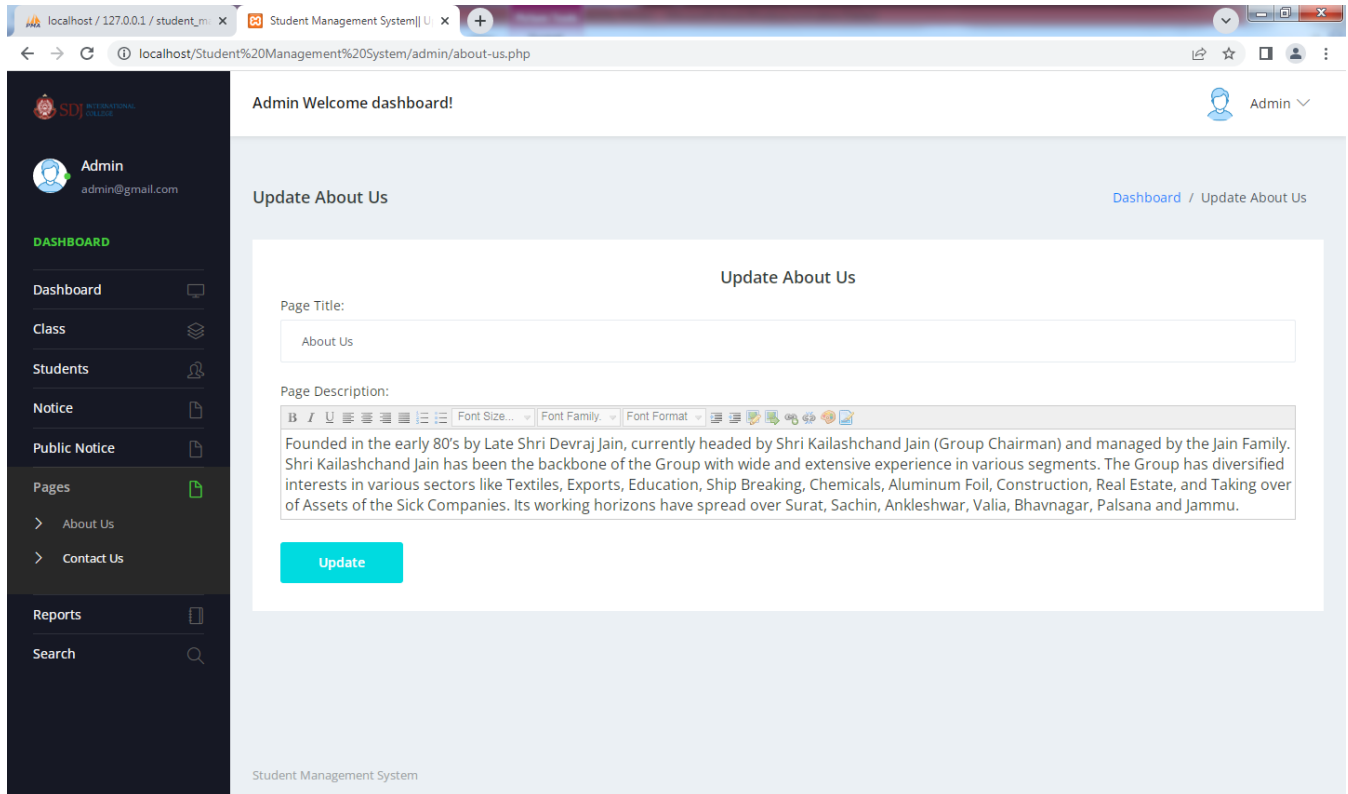
Manage Public Notice View all Public Notice

S.No	Notice Title	Notice Date	Action
1	PUBLIC notice	2022-09-29 22:18:19	i

[First>](#) [Prev>](#) [Next>](#) [Last](#)

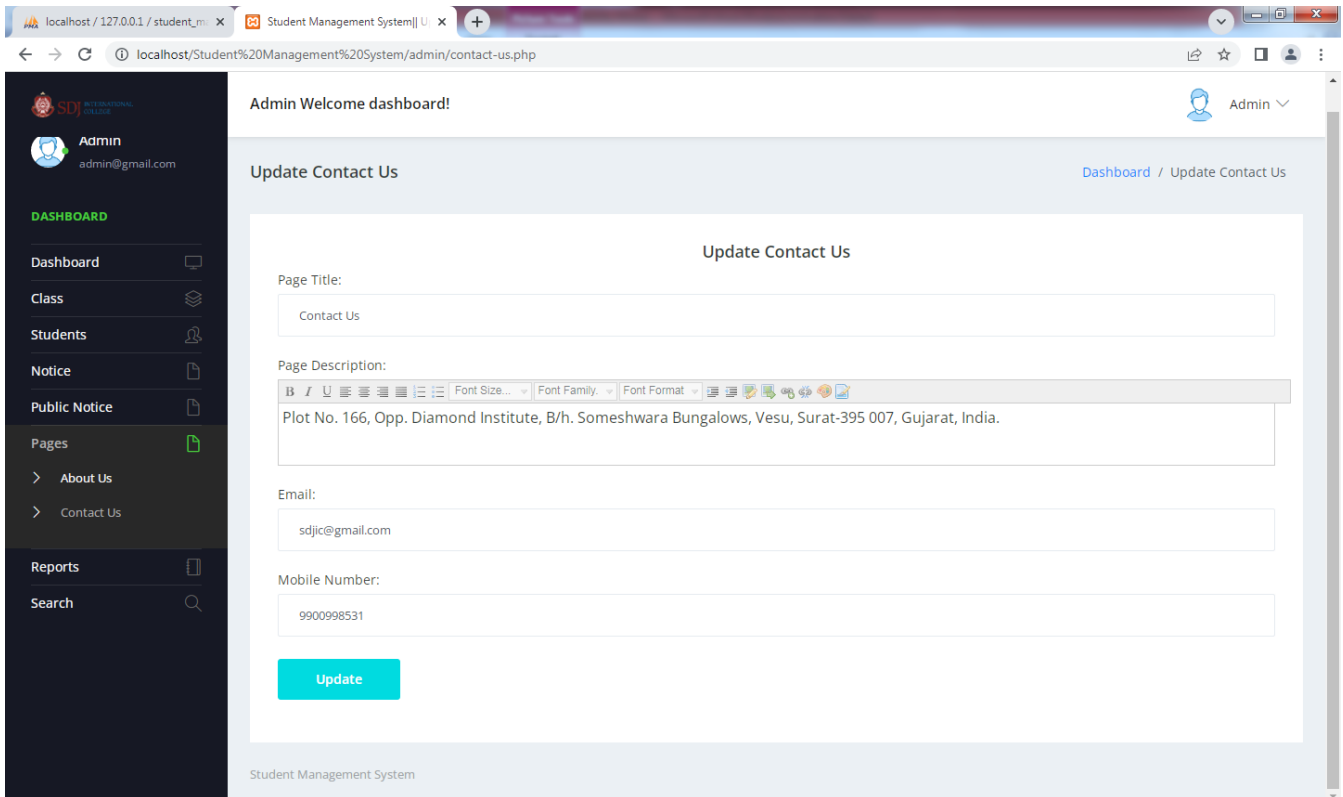
Student Management System

8. About Us page :



The screenshot displays the 'Update About Us' page within the Student Management System's admin interface. The browser address bar shows the URL: `localhost/Student%20Management%20System/admin/about-us.php`. The left sidebar contains a navigation menu with the following items: **DASHBOARD**, **Dashboard**, **Class**, **Students**, **Notice**, **Public Notice**, **Pages** (with sub-items **About Us** and **Contact Us**), **Reports**, and **Search**. The main content area is titled 'Update About Us' and includes a 'Page Title' field with the value 'About Us'. Below this is a 'Page Description' field with a rich text editor containing the following text: 'Founded in the early 80's by Late Shri Devraj Jain, currently headed by Shri Kailashchand Jain (Group Chairman) and managed by the Jain Family. Shri Kailashchand Jain has been the backbone of the Group with wide and extensive experience in various segments. The Group has diversified interests in various sectors like Textiles, Exports, Education, Ship Breaking, Chemicals, Aluminum Foil, Construction, Real Estate, and Taking over of Assets of the Sick Companies. Its working horizons have spread over Surat, Sachin, Ankleshwar, Valia, Bhavnagar, Palsana and Jammu.' A blue 'Update' button is positioned at the bottom of the form. The top right of the dashboard shows the user 'Admin' and a 'Dashboard / Update About Us' breadcrumb.

9. Contact Us page :

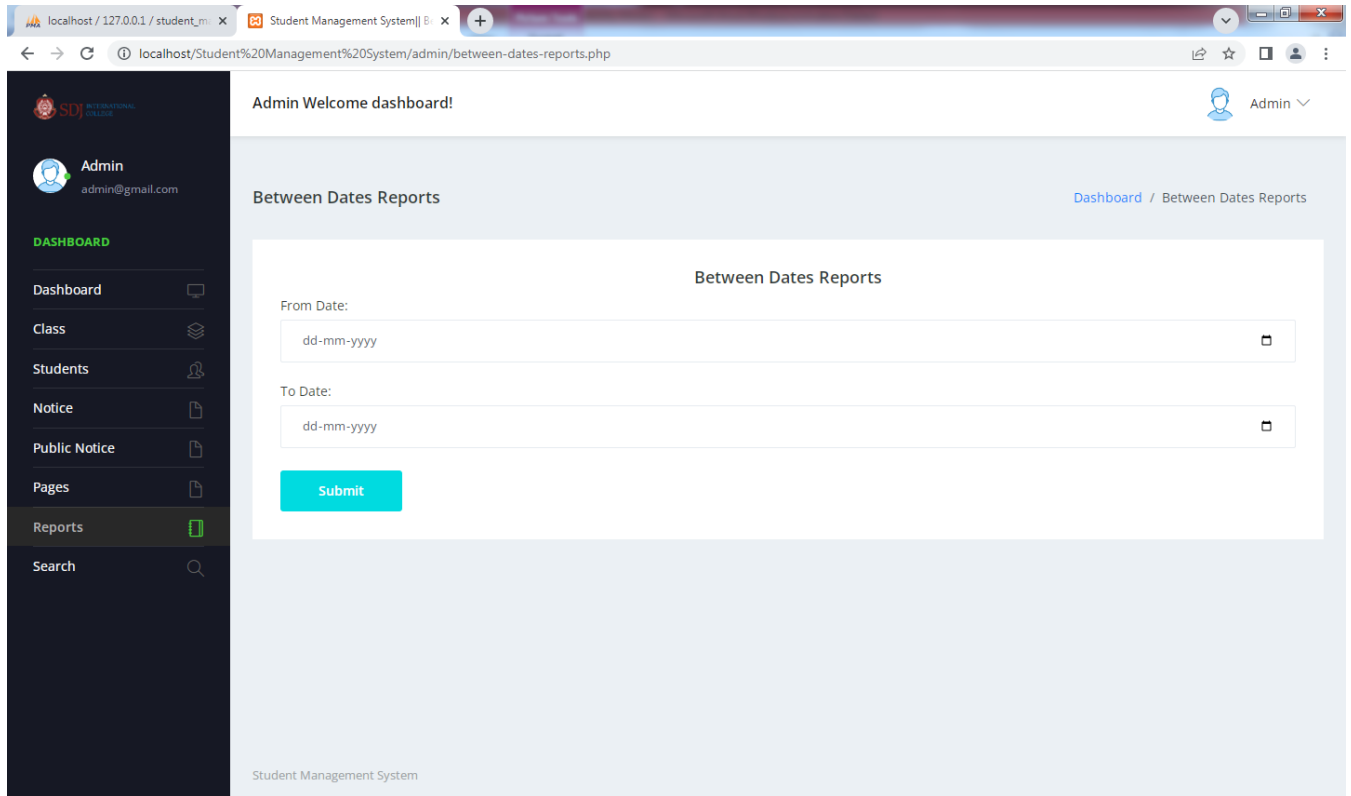


The screenshot displays the 'Update Contact Us' page within the Student Management System's admin dashboard. The browser address bar shows the URL: `localhost/Student%20Management%20System/admin/contact-us.php`. The dashboard header includes 'Admin Welcome dashboard!' and a user profile for 'Admin'. The left sidebar lists navigation options: Dashboard, Class, Students, Notice, Public Notice, Pages (with sub-items 'About Us' and 'Contact Us'), Reports, and Search. The main content area is titled 'Update Contact Us' and contains the following form fields:

- Page Title:** A text input field containing 'Contact Us'.
- Page Description:** A rich text editor area containing the text: 'Plot No. 166, Opp. Diamond Institute, B/h. Someshwara Bungalows, Vesu, Surat-395 007, Gujarat, India.'
- Email:** A text input field containing 'sdjic@gmail.com'.
- Mobile Number:** A text input field containing '9900998531'.

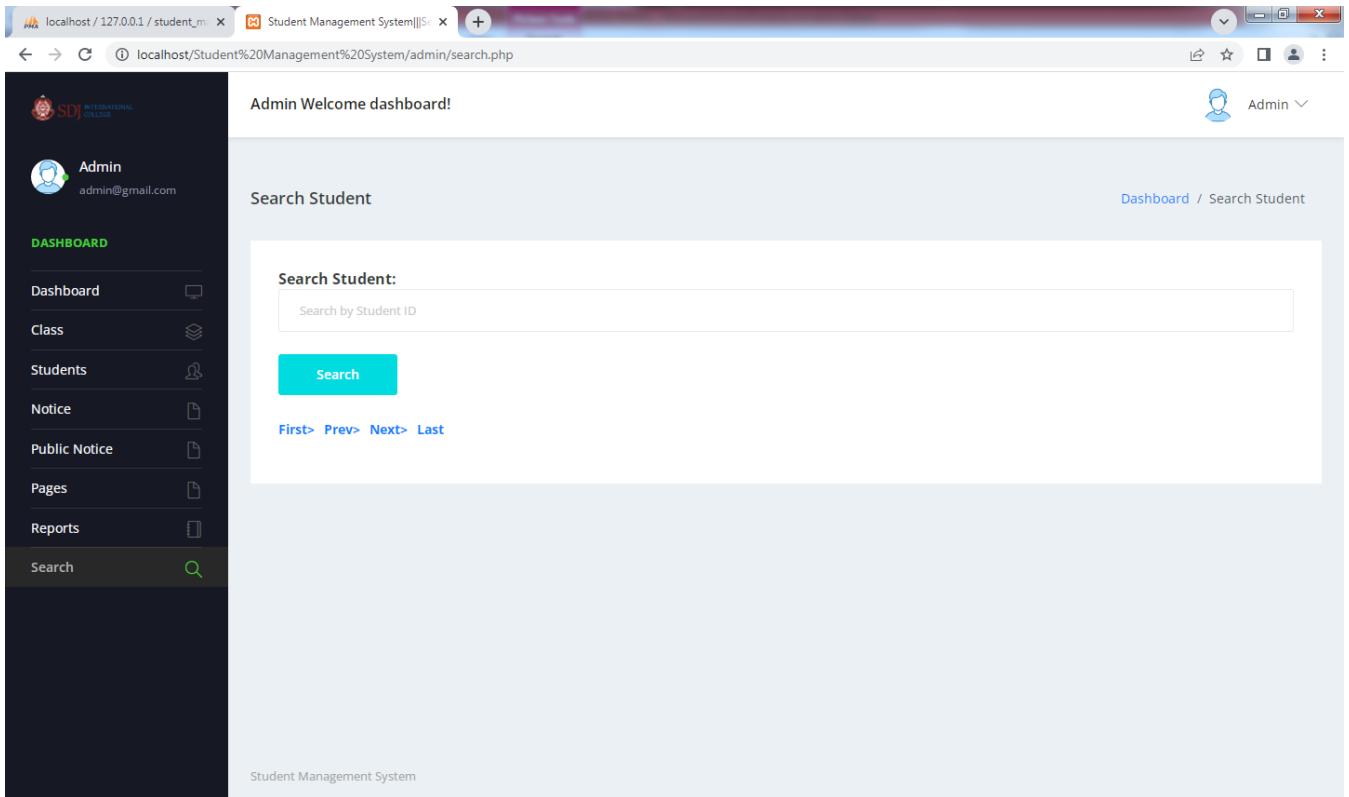
An 'Update' button is located at the bottom of the form. The footer of the page reads 'Student Management System'.

10. Reports Page :

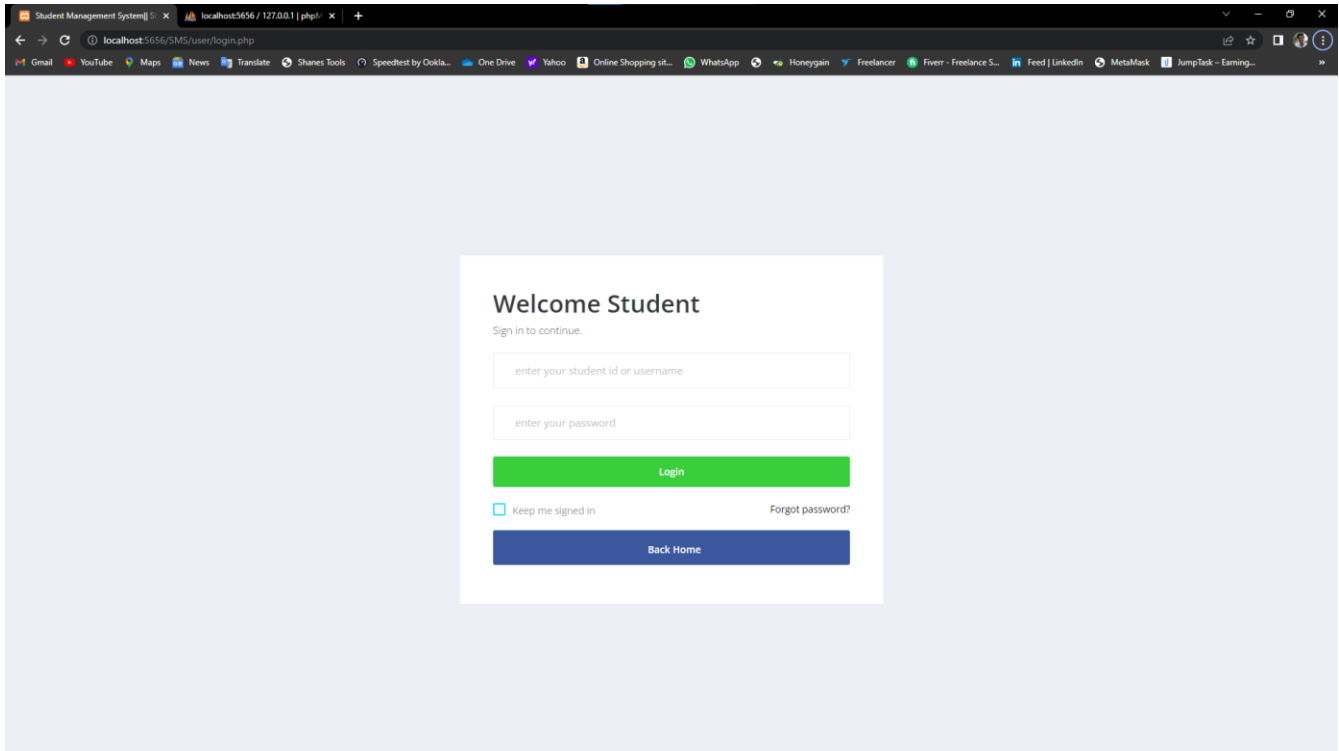


The screenshot shows a web browser window displaying the 'Between Dates Reports' page of the Student Management System. The browser's address bar shows the URL: `localhost/Student%20Management%20System/admin/between-dates-reports.php`. The page features a dark sidebar on the left with a menu including 'Dashboard', 'Class', 'Students', 'Notice', 'Public Notice', 'Pages', 'Reports' (highlighted), and 'Search'. The main content area has a header 'Admin Welcome dashboard!' and a user profile 'Admin' with a dropdown arrow. Below this, the page title 'Between Dates Reports' is displayed, followed by a breadcrumb 'Dashboard / Between Dates Reports'. The central form, titled 'Between Dates Reports', contains two date input fields: 'From Date:' and 'To Date:', both with placeholder text 'dd-mm-yyyy'. A blue 'Submit' button is positioned below these fields. The footer of the page reads 'Student Management System'.

11. Search Student Details Page :



The screenshot displays the 'Search Student' page within the Student Management System. The browser address bar shows the URL: `localhost/Student%20Management%20System/admin/search.php`. The page features a dark sidebar on the left with a navigation menu including Dashboard, Class, Students, Notice, Public Notice, Pages, Reports, and Search (highlighted with a magnifying glass icon). The main content area has a header 'Admin Welcome dashboard!' and a user profile 'Admin' with a dropdown arrow. Below this, the page title 'Search Student' is followed by a breadcrumb 'Dashboard / Search Student'. The search section contains a text input field labeled 'Search Student:' with a placeholder 'Search by Student ID', a blue 'Search' button, and pagination links: 'First> Prev> Next> Last'. The footer of the page reads 'Student Management System'.

B. Student Side :**1. Student Login :**

Student Management System | localhost:5656 / 127.0.0.1 | php

localhost:5656/SMS/user/login.php

Welcome Student

Sign in to continue.

enter your student id or username

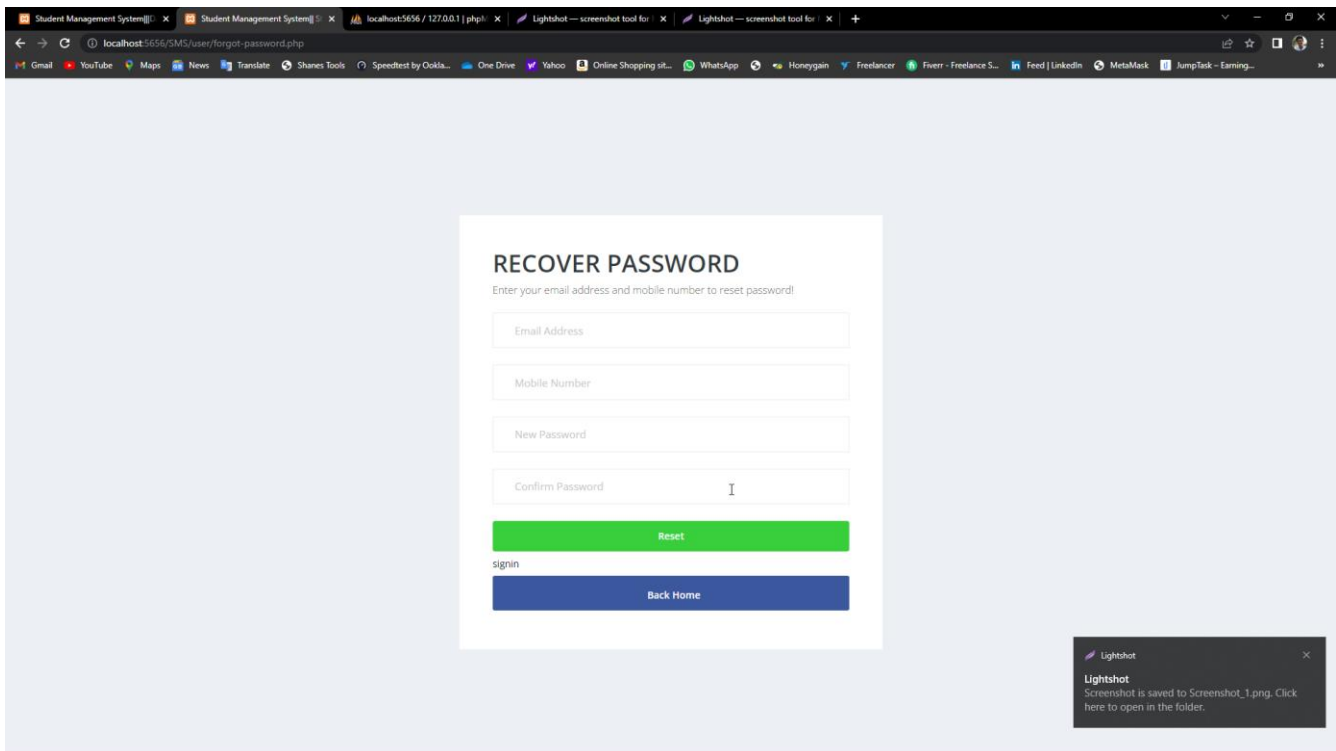
enter your password

Login

☐ Keep me signed in [Forgot password?](#)

Back Home

2. Student Recover Password :



The screenshot shows a web browser window with the URL `localhost:5656/SMS/user/forget-password.php`. The page has a light blue background and a central white box containing the "RECOVER PASSWORD" form. The form includes four input fields: "Email Address", "Mobile Number", "New Password", and "Confirm Password". Below these fields are two buttons: a green "Reset" button and a blue "Back Home" button. A "signin" link is located to the left of the "Back Home" button. A Lightshot notification box in the bottom right corner states: "Lightshot Screenshot is saved to Screenshot_1.png. Click here to open in the folder."

RECOVER PASSWORD
Enter your email address and mobile number to reset password!

Email Address

Mobile Number

New Password

Confirm Password

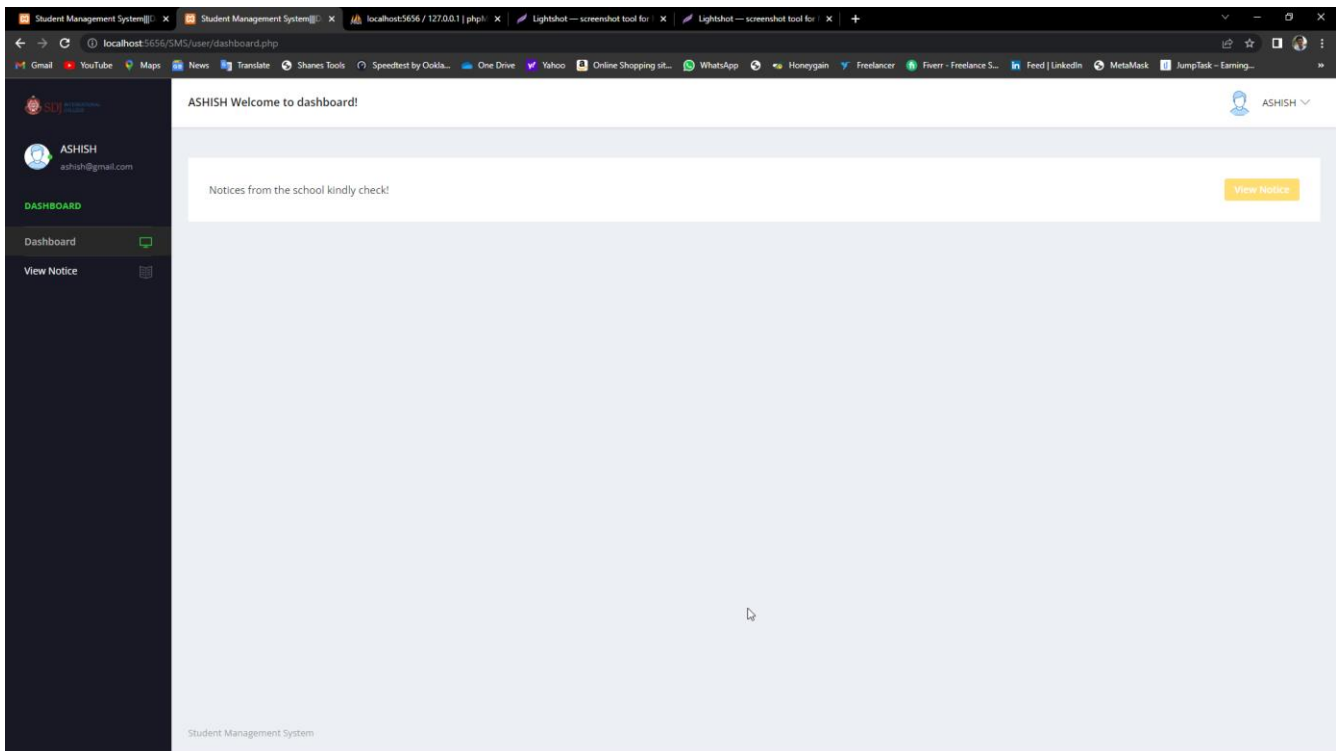
[Reset](#)

[signin](#)

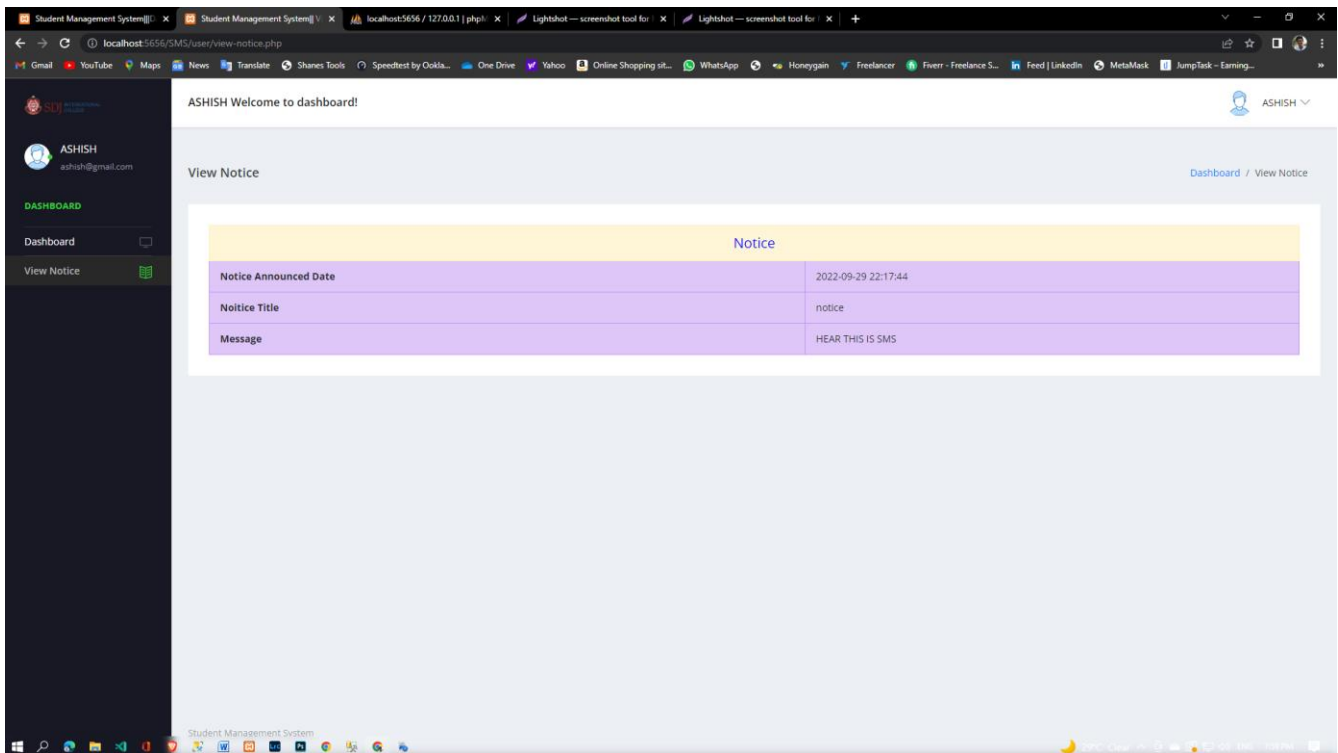
[Back Home](#)

Lightshot
Screenshot is saved to Screenshot_1.png. Click here to open in the folder.

3. Student Dashboard :



4. Student View Notice :



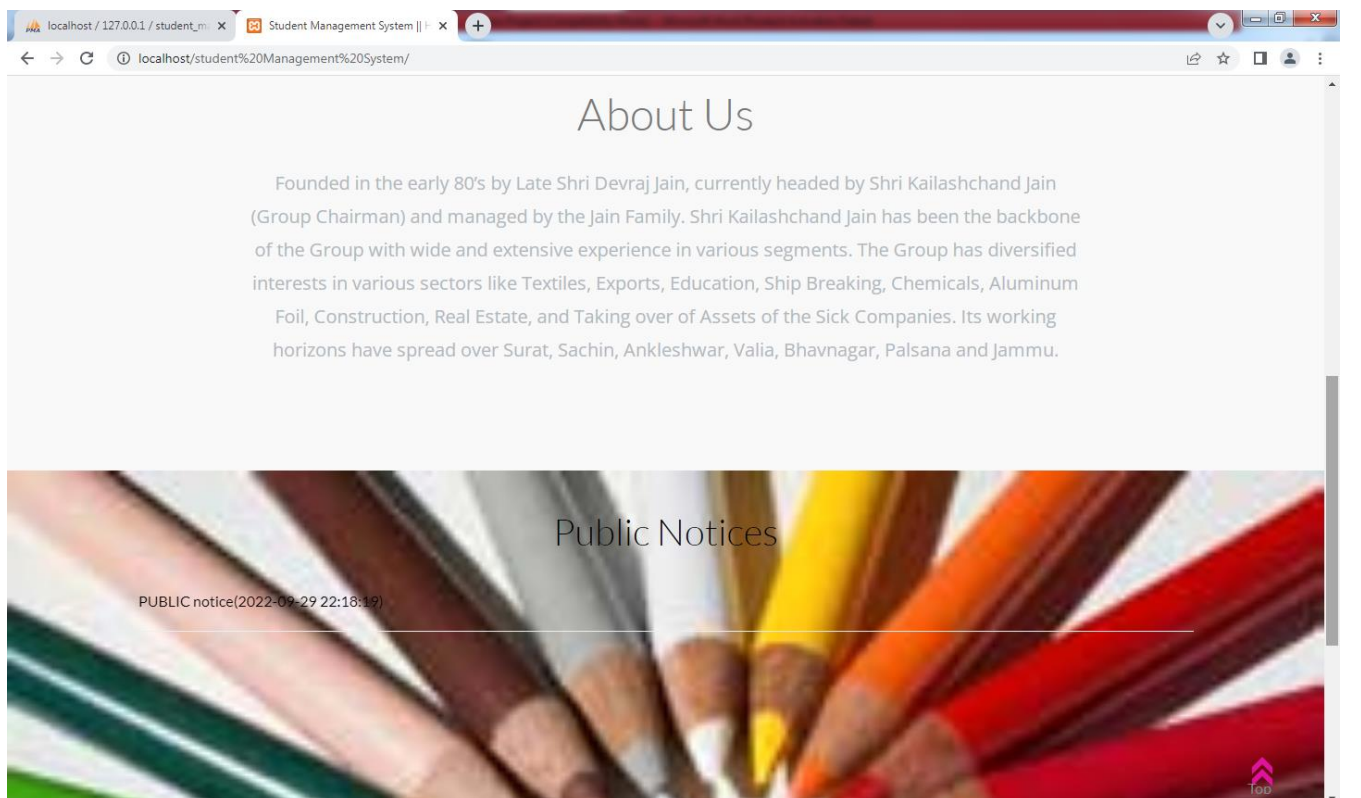
ASHISH Welcome to dashboard!

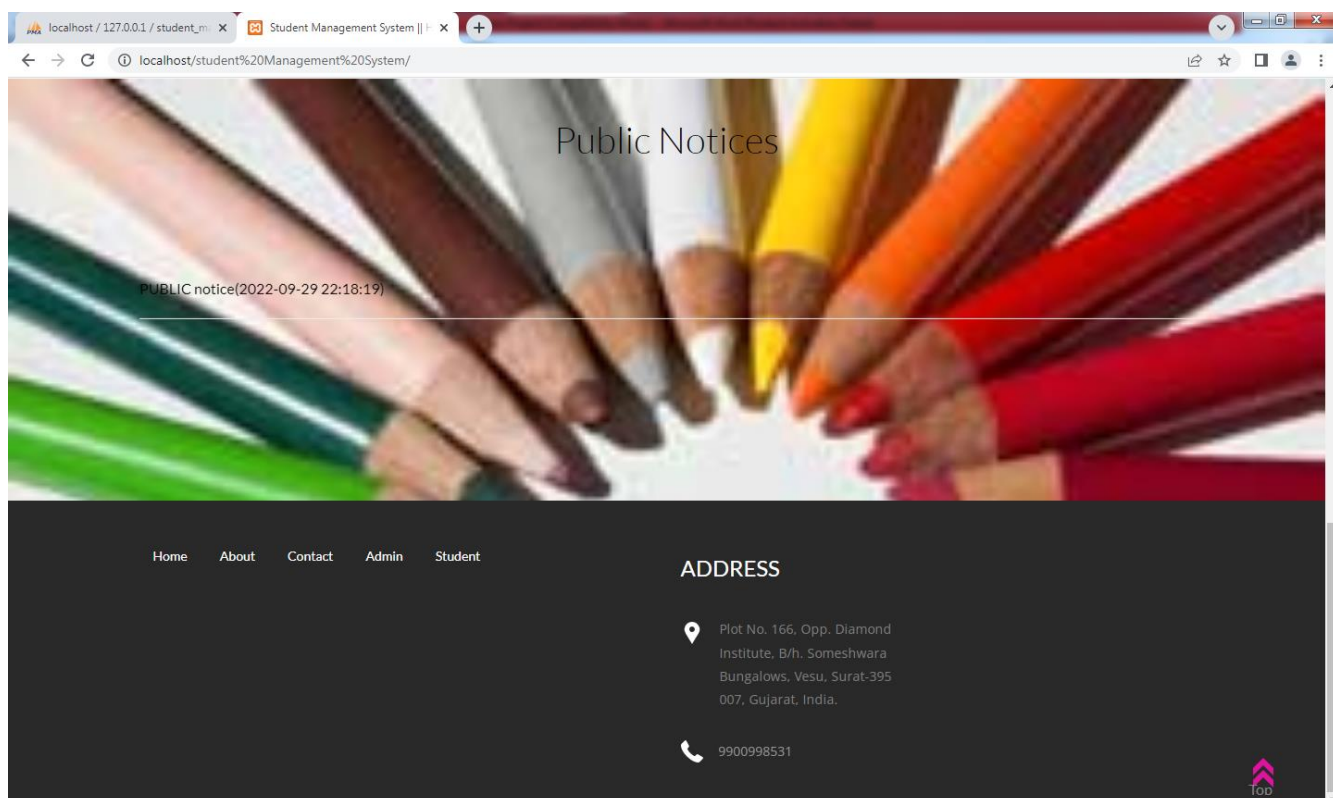
View Notice

Notice	
Notice Announced Date	2022-09-29 22:17:44
Notice Title	notice
Message	HEAR THIS IS SMS

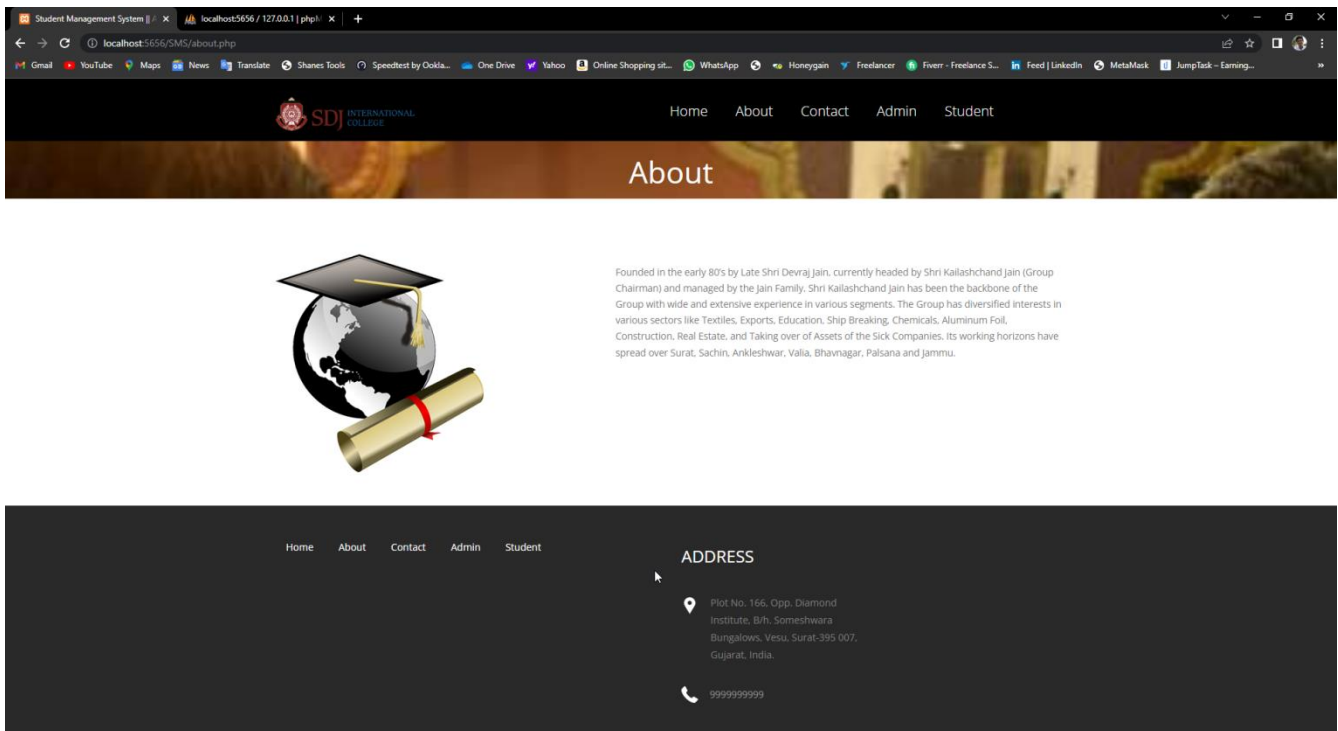
6.4 Output Design

1. Home Page :

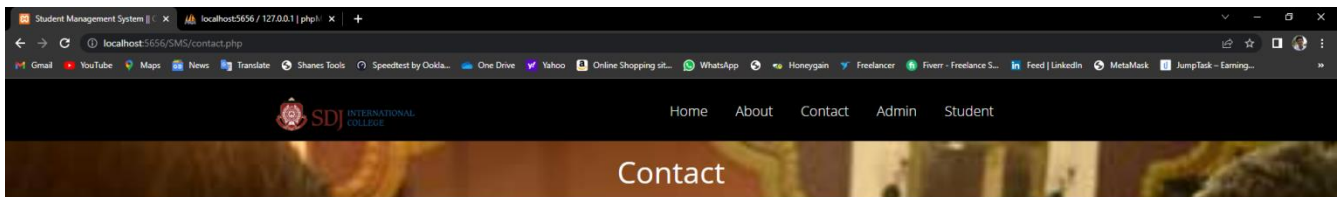




2. About Us Page :



3. Contact Page :



Feel Free to contact with us!!!

Address :

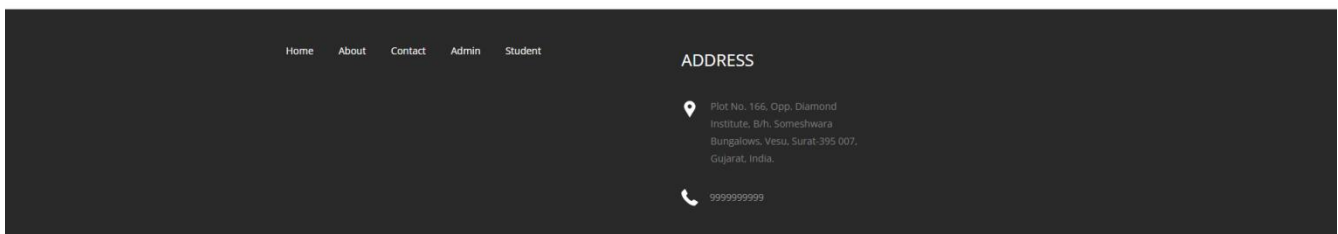
Phones :

E-mail :

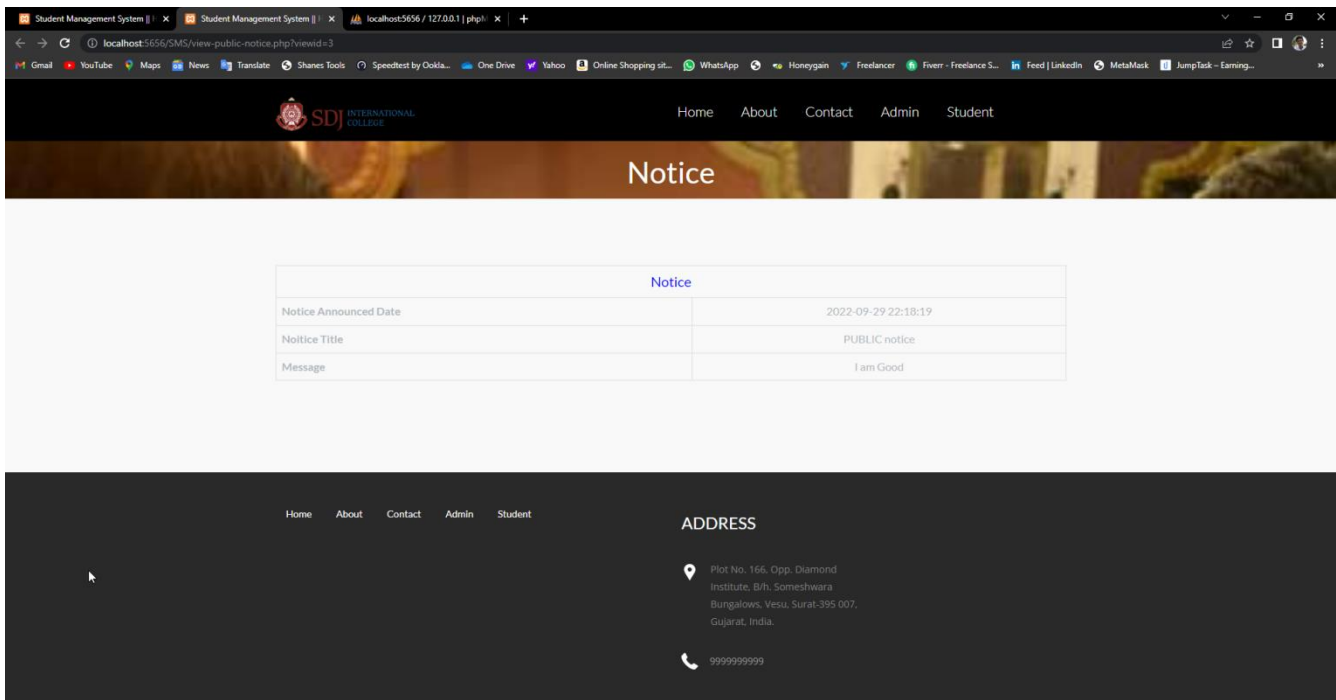
Plot No. 166, Opp. Diamond Institute, B/h. Someshwara
Bungalows, Vesu, Surat-395 007, Gujarat, India.

9999999999

sdjic@gmail.com



4. Notice View Page :



The screenshot displays the 'Notice View Page' of the Student Management System. The page features a header with the SDJ International College logo and navigation links (Home, About, Contact, Admin, Student). Below the header is a banner with the word 'Notice'. The main content area contains a table with the following data:

Notice	
Notice Announced Date	2022-09-29 22:18:19
Notice Title	PUBLIC notice
Message	I am Good

The footer section includes navigation links (Home, About, Contact, Admin, Student) and contact information under the heading 'ADDRESS':

ADDRESS

Plot No. 166, Opp. Diamond Institute, B/H. Someshwara Bungalows, Vesu, Surat-395 007, Gujarat, India.

9999999999

7. Software Testing

1. Unit Testing

➤ Test Case For Admin

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Username	Empty	"Please fill out this field"	As Expected
2	Username	Wrong	Invalid Details	As Expected
3	Password	Empty	"Please fill out this field"	As Expected
4	Password	Wrong	Invalid Details	As Expected

➤ Test Case For Admin Recover Password

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Email	Empty	"Please fill out this field"	As Expected
2	Email	Wrong	"Please enter a part followed by @"	As Expected
3	Mobile Number	Empty	"Please fill out this field"	As Expected
4	Mobile Number	Wrong	Invalid Details	As Expected
5	New Password	Empty	"Please fill out this field"	As Expected
6	New Password	Wrong	Invalid Details	As Expected
7	Confirm Password	Empty	"Please fill out this field"	As Expected
8	Confirm Password	Wrong	Invalid Details	As Expected

➤ Test Case For Admin Add Class

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Class Name	Empty	"Please fill in this field"	As Expected
2	Section	Empty	"Please select an item in the list"	As Expected

➤ Test Case for Admin Add Students

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Student Name	Empty	"Please fill in this field"	As Expected
2	Student Email	Empty	"Please enter a part followed by @"	As Expected
3	Student Class	Empty	"Please fill in this field"	As Expected
4	Gender	Empty	"Please select an item in the list"	As Expected
5	Date of Birth	Empty	"Please select an item in the list"	As Expected
6	Student ID	Empty	"Please fill in this field"	As Expected
7	Father's Name	Empty	"Please fill in this field"	As Expected
8	Mother's Name	Empty	"Please fill in this field"	As Expected
9	Contact Number	Empty	"Please fill in this field"	As Expected
10	Alternate Contact Number	Empty	"Please fill in this field"	As Expected
11	Address	Empty	"Please fill in this field"	As Expected
12	User Name	Empty	"Please fill in this field"	As Expected
13	Password	Empty	"Please fill in this field"	As Expected

➤ Test Case for Admin Add Notice

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Notice Title	Empty	"Please fill in this field"	As Expected
2	Notice For	Empty	"Please select an item in the list"	As Expected
3	Notice Message	Empty	"Please fill in this field"	As Expected

➤ Test Case for Admin Add Public Notice

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Notice Title	Empty	"Please fill in this field"	As Expected
2	Notice Message	Empty	"Please fill in this field"	As Expected

➤ Test Case for Admin Between Dates Reports

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	From Date:	Empty	"Please fill in this field"	As Expected
2	To Date:	Empty	"Please fill in this field"	As Expected

➤ Test Case For Student

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Username	Empty	"Please fill out this field"	As Expected
2	Username	Wrong	Invalid Details	As Expected
3	Password	Empty	"Please fill out this field"	As Expected
4	Password	Wrong	Invalid Details	As Expected

➤ Test Case For Student Recover Password

Test Id	Test field	Step Execute	Executed Result	Actual Result
1	Email	Empty	"Please fill out this field"	As Expected
2	Email	Wrong	"Please enter a part followed by @"	As Expected
3	Mobile Number	Empty	"Please fill out this field"	As Expected
4	Mobile Number	Wrong	Invalid Details	As Expected
5	New Password	Empty	"Please fill out this field"	As Expected
6	New Password	Wrong	Invalid Details	As Expected
7	Confirm Password	Empty	"Please fill out this field"	As Expected
8	Confirm Password	Wrong	Invalid Details	As Expected

2. Navigational Testing

➤ Admin

Link	Expected Page	Result Page
admin_login	Admin Login	Admin Login
dashboard	Dashboard Page	Dashboard Page
admin_manage_class	Manage Class Page	Manage Class Page
admin_manage_student	Manage Student Page	Manage Student Page
admin_manage_notice	Manage Notice Page	Manage Notice Page
admin_manage_public_notice	Manage Public Notice Page	Manage Public Notice Page
admin_password_reset	Reset Password Page	Reset Password Page

➤ Student

Link	Expected Page	Result Page
student_login	Student Login	Student Login
dashboard	Dashboard Page	Dashboard Page
student_password_reset	Reset Password Page	Reset Password Page

3. Environment Testing

- System Testing is a level of software testing where complete & integrated software is tested.
- The purpose of this test is to evaluate the systems compliance with the specified requirements.
- Google Chrome & Firefox browser were considered as testing environment for operability of Software.
 - a. Web Server : XAMPP Server.
 - b. Database : MySQL
 - c. OS : Windows 10.
 - d. Browser : Google Chrome/Firefox.

8. Limitations and Future Scope of Enhancements

- Student Management System can be used by educational institutions to maintain their student records easily.
- Achieving this objective is difficult using the manual system as the information is scattered, can be redundant, and collecting relevant information may be very time-consuming.
- All these problems are solved by this project.
- This system helps in maintaining the information of pupils of the organization.
- It can be easily accessed by the manager and kept safe for a long period of time without any changes.
- The project titled "Student Management System" is developed using Python Tkinter as front end and MYSQL database in back end to computerize the process of management of student records.
- This project covers only the basic features required.

9. References

- <https://www.codewithharry.com/>
- <https://www.w3schools.com/>
- <https://phpgurukul.com/>
- <https://getbootstrap.com/>
- <https://www.codewithc.com/>