

R. B. Shirke Jr. College, Ratnagiri Website

A Project Report

Submitted in partial fulfilment of the
Requirements for the award of the Degree of

BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY)

By

Mr. Sahil Shailesh Amberkar
Seat Number – TT240002

Under the esteemed guidance of
Mr. S. D. Joshi

Assistant Professor at Information Technology Department of
Gogate Joglekar College (AUTONOMOUS), Ratnagiri



DEPARTMENT OF INFORMATION TECHNOLOGY
GOGATE JOGALEKAR COLLEGE (AUTONOMOUS), RATNAGIRI
RATNAGIRI, 415612
MAHARASHTRA
2023-24

PROJECT PROPOSAL

PRN No. : 2021016400646304

Roll No. : TTA11

1. Name of the Student : Sahil Shailesh Amberkar
2. Title of the Project : R.B. Shirke Jr. College, Ratnagiri Website
3. Name of the Guide : Mr. S. D. Joshi
4. Teaching experience of : 02 years
5. Is this your first submission? : Yes / No

Signature of the Student

Date :

Signature of the Guide

Date :

Signature of the Coordinator /HOD

Date :

GOGATE JOGALEKAR COLLEGE (AUTONOMOUS), RATNAGIRI

RATNAGIRI-MAHARASHTRA-415612

DEPARTMENT OF INFORMATION TECHNOLOGY



CERTIFICATE

This is to certify that the project entitled, "**R. B. Shirke Jr. College, Ratnagiri Website**", is bona fide work of **Mr. Sahil Shailesh Amberkar** bearing Seat. No: (TT240002) submitted in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE in INFORMATION TECHNOLOGY from University of Mumbai.

Internal Guide

Coordinator / HOD

External Examiner

Date:

College Seal

ABSTRACT

The “**R.B. Shirke Jr. College, Ratnagiri Website**” project aims to develop a comprehensive online platform for R.B. Shirke College, providing students, faculty, and stakeholders with easy access to information, resources, and services. The R.B. Shirke College Website offers a user-friendly interface with intuitive navigation, enabling visitors to explore various sections and access relevant information effortlessly. The website provides detailed insights into the college's history, vision, and mission, highlighting its commitment to academic excellence and holistic development of students.

The website incorporates essential features and functionalities, including:

1. **Academic Programs:** The website showcases a wide range of undergraduate and postgraduate programs offered by R.B. Shirke College.
2. **Admissions:** The admissions section provides comprehensive details about the admission process, application requirements, and important dates.
3. **Faculty and Staff:** This section features profiles of the college's esteemed faculty and staff members.
4. **Facilities and Infrastructure:** The website highlights the state-of-the-art facilities and infrastructure available at R.B. Shirke College.
5. **Events and Activities:** Students and faculty can stay updated on upcoming events and actively participate in the vibrant college community.
6. **Student Resources:** The website provides a wealth of resources to support students' academic journey, including course materials, study guides, examination schedules, and online learning platforms.
7. **Contact and Feedback:** The website offers multiple channels for communication, allowing visitors to get in touch with the college administration, faculty, and staff. Feedback forms and contact information facilitate seamless communication, ensuring prompt resolution of queries and concerns.

Overall, the R.B. Shirke College Website project aims to enhance communication, collaboration, and accessibility within the college community.

ACKNOWLEDGEMENT

I would like to express my sincere gratitude to several individuals for supporting me throughout the project.

I am grateful to **Dr. P. P. Kulkarni**, Principal and **Dr. A. M. Kulkarni** Vice Principal (Science Faculty) Coordinator **Dr. V. V. Bhide** of Gogate Jogalekar College (AUTONOMOUS), Ratnagiri for providing all the necessary facilities of laboratory and library at Gogate Jogalekar College (AUTONOMOUS), Ratnagiri.

I wish to express my sincere thanks to **Mrs. M. A. Sahasrabuddhe**, Head of the Department of Information Technology for giving me the opportunity to complete the project work by providing valuable guidance to complete the task.

I would also like to express my sincere thanks to our **Respected Teachers** for helping and guiding me throughout the finalization of project.

I would like to thanks my guide **Mr. S. D. Joshi**, for his guidance, enthusiasm, patience, helpful information and practical advice that has helped me a lot in completion of my project.

Last but not the least my special thanks to my parents, my friends and all those people who have encouraged me, helped me to complete this project successfully in time.

Name of the Student

Mr. Sahil Shailesh Amberkar

DECLARATION

I hereby declare that the project entitled, “**R.B. Shirke Jr. College, Ratnagiri Website**” done at **Gogate Jogalekar College (AUTONOMOUS), Ratnagiri** has not been in any case duplicated to submit to any other university for the award of any degree. To the best of my knowledge other than me, no one has submitted to any other university.

The project is done in partial fulfilment of the requirements for the award of degree of BACHELOR OF SCIENCE (INFORMATION TECHNOLOGY) to be submitted as final semester project as part of our curriculum.

Mr. Sahil Shailesh Amberkar

TABLE OF CONTENTS

Sr. No.	Content	Page No.
1	Introduction	9
	1.1 Background	9
	1.2 Objectives	9
	1.3 Scope, Purpose, Applicability	10
	1.3.1 Scope	10
	1.3.2 Purpose	10
	1.3.3 Applicability	11
2	Survey Of Technologies	12
	2.1 Existing System	12
	2.2 Proposed System	12
	2.2.1 Advantages	12
3	Requirement Analysis	13
	3.1 Problem Definition	13
	3.2 Requirement Specification	13
	3.3 Planning and Scheduling - Gantt Chart	14
	3.4 Hardware and Software Requirements	14
	3.5 UML Diagrams	15
4	Event Table	21
5	System Design	22
	5.1 Module Division	22
	5.2 Data Design	23
	5.2.1 Data Dictionary	23
	5.2.2 Schema Design	24
	5.3 User Interface Design	25
6	References	27

LIST OF DIAGRAMS

Sr. No.	Diagram Name	Page No.
1	Use case Diagram	15
2	Entity Relationship Diagram	18
3	Class Diagram	18
4	Sequence Diagram	19
5	Deployment Diagram	20

1. Introduction

1.1 Background

The R.B. Shirke College Website project was created to make things easier for the college and the people who study and work there. It's like a new and improved website for the college. The goal is to give students, teachers, and others a website that's easy to use and has lots of helpful information. You can find out about the different classes you can take, how to apply to the college, learn about the teachers, see the college's cool buildings, find out about events, get study materials, and talk to the college if you have questions or suggestions. The website is all about making things better and keeping everyone connected at the college.

1.2 Objectives

The R.B. Shirke College Website has several key objectives to benefit students, faculty, and stakeholders. First and foremost, it aims to simplify the process of finding important information. This includes details about the college's academic programs and how to apply for them. Additionally, the website seeks to showcase the college's strengths by highlighting its faculty members and state-of-the-art facilities. Keeping everyone in the loop is another priority, with the website providing updates on upcoming events and activities to foster a sense of community and engagement. Furthermore, it aims to support students in their academic journey by offering study materials and resources. Lastly, the website aims to promote open communication by providing channels for questions, feedback, and suggestions, ensuring that the college community stays connected and can easily reach out for assistance. In summary, the R.B. Shirke College Website project is all about making college life more accessible, engaging, and informative for everyone involved.

1.3 Scope, Purpose, Applicability

1.3.1 Scope

The scope of the R.B. Shirke College Website encompasses a wide range of features and functionalities tailored to meet the needs of its diverse user base:

1. Academic Programs: The website will provide detailed information about undergraduate and postgraduate programs offered by the college, ensuring prospective students can make informed decisions about their education.
2. Admissions: It will cover admission processes, requirements, and important dates, simplifying the application process for prospective students.
3. Faculty and Staff: Faculty and staff profiles will be featured to promote transparency and trust within the college community.
4. Facilities and Infrastructure: The website will showcase the college's state-of-the-art facilities and infrastructure, highlighting its commitment to providing a conducive learning environment.
5. Events and Activities: Upcoming events and activities will be regularly updated to encourage active participation and a vibrant college community.
6. Student Resources: A wealth of resources, including study materials and online learning platforms, will be made available to support students in their academic endeavours.
7. Contact and Feedback: Multiple communication channels and feedback forms will ensure easy access to college administration, faculty, and staff for queries and concerns, promoting open communication.

1.3.2 Purpose

The primary purpose of the R.B. Shirke College Website is to serve as a comprehensive and user-friendly online platform for the college community, including students, faculty, and stakeholders. It aims to fulfill several key objectives:

1. Information Dissemination: To provide easy access to essential information about academic programs, admission processes, faculty profiles, facilities, events, and resources.

2. Enhanced Communication: To facilitate seamless communication and collaboration among students, faculty, staff, and administration through multiple channels, including contact forms and feedback mechanisms.
3. Engagement and Community Building: To promote a sense of belonging and active participation within the college community by keeping everyone informed about upcoming events and activities.
4. Academic Support: To support students' academic journeys by offering valuable resources such as course materials, study guides, and examination schedules.
5. Showcasing Excellence: To showcase the college's commitment to academic excellence and holistic development by highlighting its achievements, vision, and mission.

1.3.3 Applicability :

The R.B. Shirke College Website is applicable to a wide range of individuals and groups. Prospective students can use it to explore academic programs and admission details, while current students benefit from resources and event updates. Faculty and staff can showcase profiles and engage with colleagues, and parents can stay informed about their children's education. The college administration can efficiently communicate and gather feedback, while alumni can stay connected and access specific resources. External stakeholders and the general public can learn about the college's mission and achievements. In summary, the website serves as a vital information and communication hub for the entire college community, including students, faculty, staff, parents, alumni, and external stakeholders.

2. Survey of Technologies

2.1 Existing System

Early days **R. B. Shirke Jr. Collage** perform student admission process manually. It required lot of time to record or to retrieve the details. The employees who have to record the details must perform their job very carefully. Even a small mistake would create a lot of problems. Security of information is very less. Report generations of all the information is very tough task.

Maintenance of student's information is a very complex task. In addition to its maintenance of student's document's manually is a complex task.

All the operations must be performed in perfect manner for the maintenance of the library without any degradation which may finally result in the failure of the entire system.

Limitations:

- Data getting mixed.
- Difficult to manage details of the student.
- More manual work required.

2.2 Proposed System:-

The current system will be user-friendly i.e. easy to use. It will reduce the inconveniences that is found in the existing system.

2.2.1 Advantages:-

- Saves time and efforts.
- Accessible from anywhere and anytime.
- Easy order management with detailed information.
- No risk of data getting mixed

3. Requirement Analysis

3.1 Problem Definition:-

The problem definition for the R.B. Shirke College Website project revolves around the need to enhance communication, accessibility, and engagement within the college community. The existing system may lack a centralized and user-friendly platform for students, faculty, and stakeholders to access crucial information, academic resources, and services. Additionally, the admissions process might not be as transparent as desired, hindering prospective students' ability to navigate the application process effectively. Insufficient online resources and limited opportunities for interaction could also be limiting the overall educational experience. Therefore, the project aims to address these issues by creating a comprehensive online platform that fosters transparent admissions, facilitates seamless communication, and enriches the academic journey of students and the collaborative experience of faculty and staff.

3.2 Requirement Specification:-

The website is expected to be:-

- User friendly
- Admission data management.
- Faster, flexible and convenient.

3.3 Planning and Scheduling – Gantt chart •

Planning:

Task Name	June				July				August				September			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
General meeting																
Project Discussion																
Requirement gathering																
Making SiteMap																
Event Table																
Drawing UML Diagrams																
Generating Database																
User Interface																
Documentation																

• Scheduling:

Task Name	June				July				August				September			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
General meeting																
Project Discussion																
Requirement gathering																
Making SiteMap																
Event Table																
Drawing UML Diagrams																
Generating Database																
User Interface																
Documentation																

3.4 Software and Hardware Requirements:

✚ Hardware Requirements:-

- Processor:- minimum Intel(R) Core(TM) i3-6100U
- Speed:-2.30 GHZ
- Hard Disk capacity:-1TB
- Memory capacity:-minimum 2 GB and above

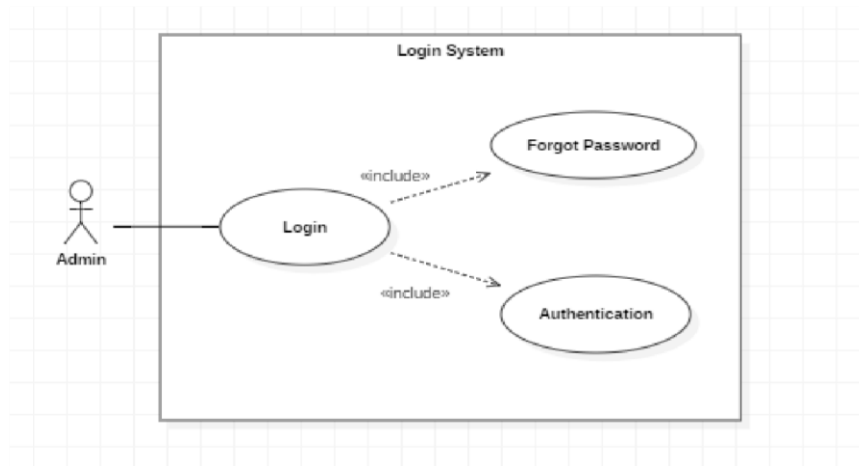
✚ Software Requirements:-

- Browser: Google Chrome, Firefox, etc.
- Server : Xampp
- Operating System : Windows 7/8/10
- Back end : MySQL, Apache, PHP script.
- Front end : HTML, CSS , JavaScript.

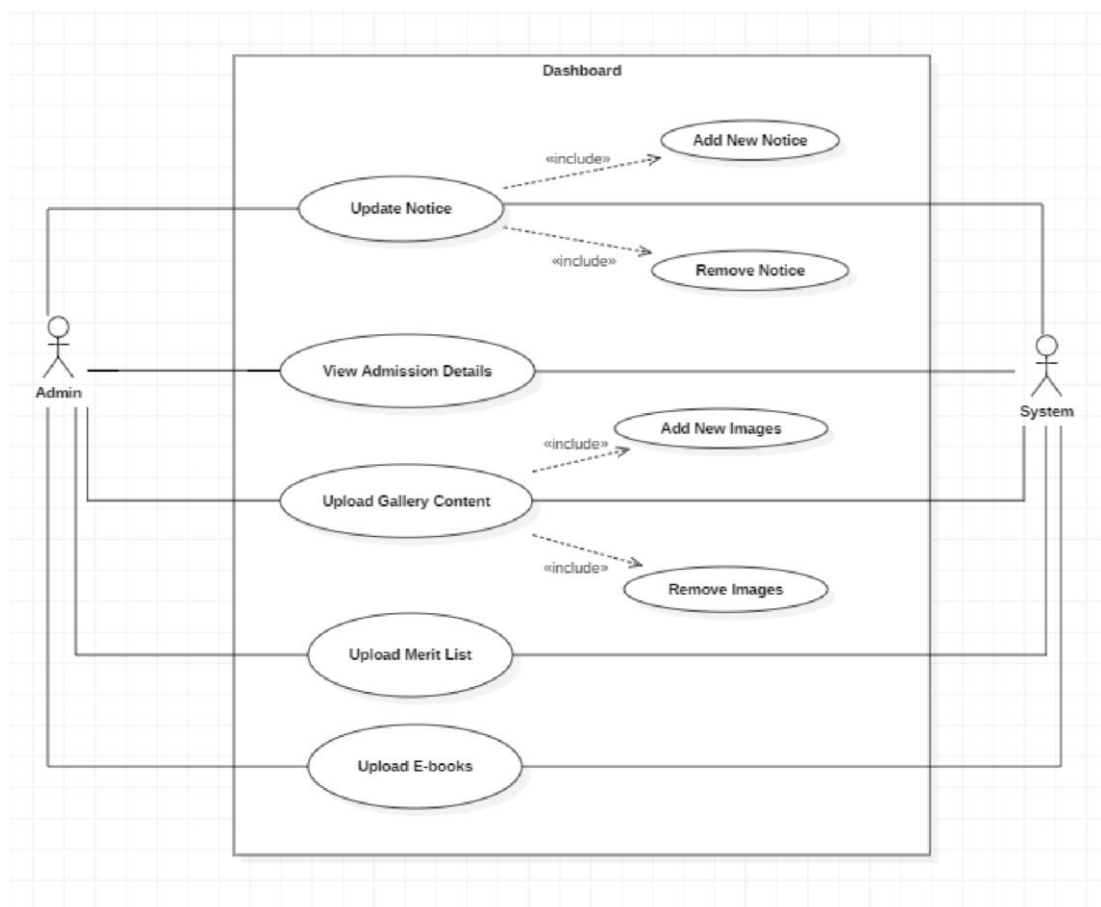
3.5 UML Diagrams:

1. Use-Case Diagram:

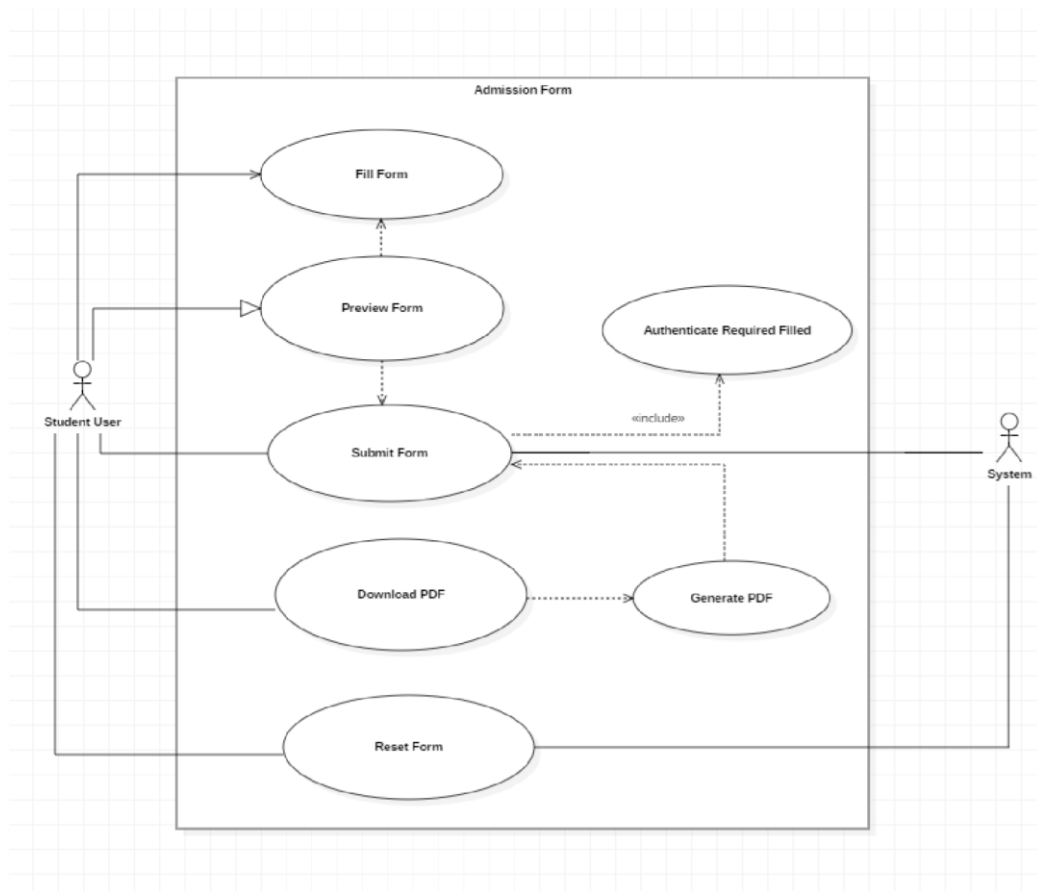
- Login System:



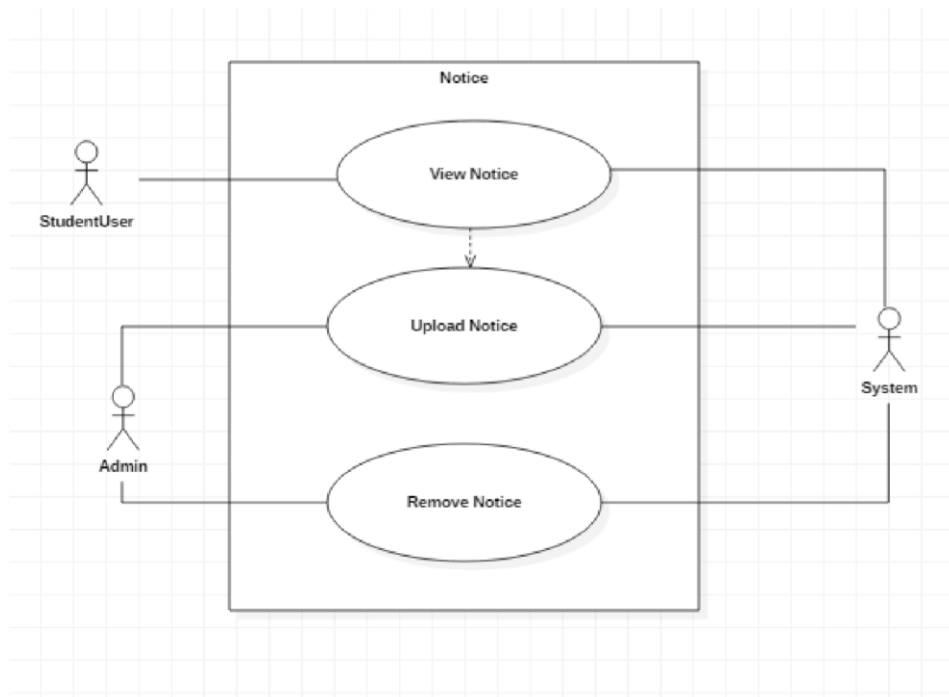
- Dashboard:



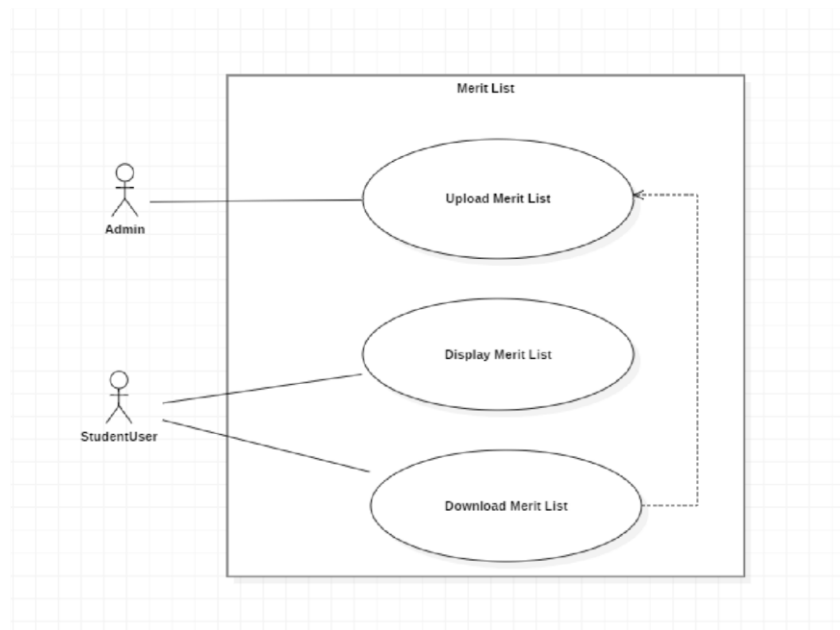
- Admission Form:



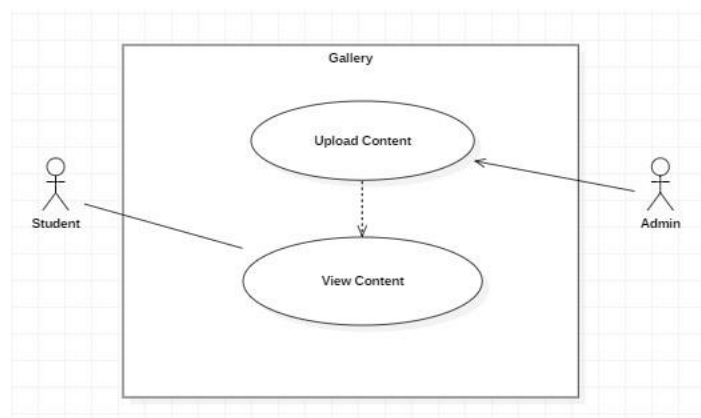
- Notice:



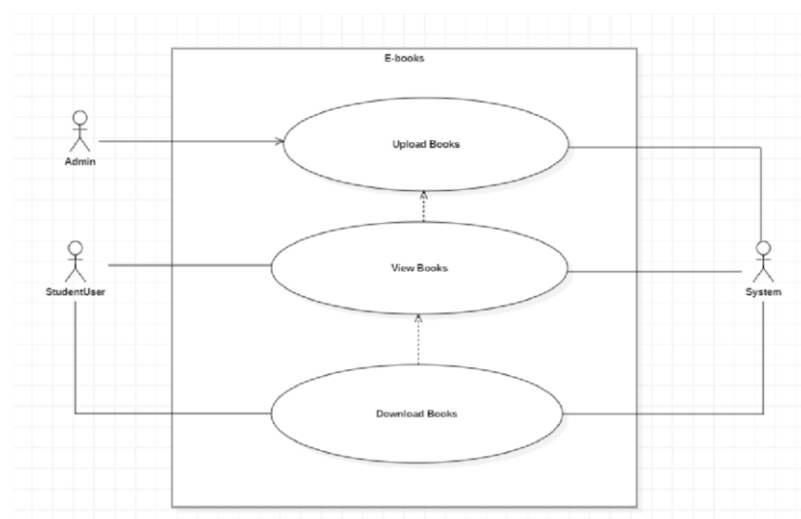
- Merit List:



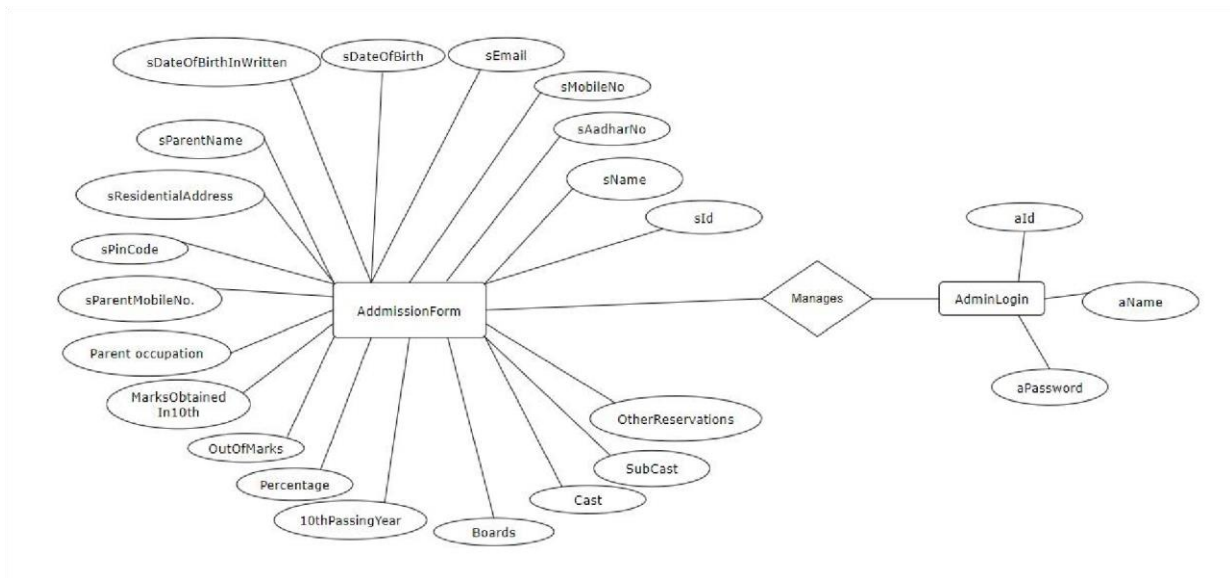
- Gallery:



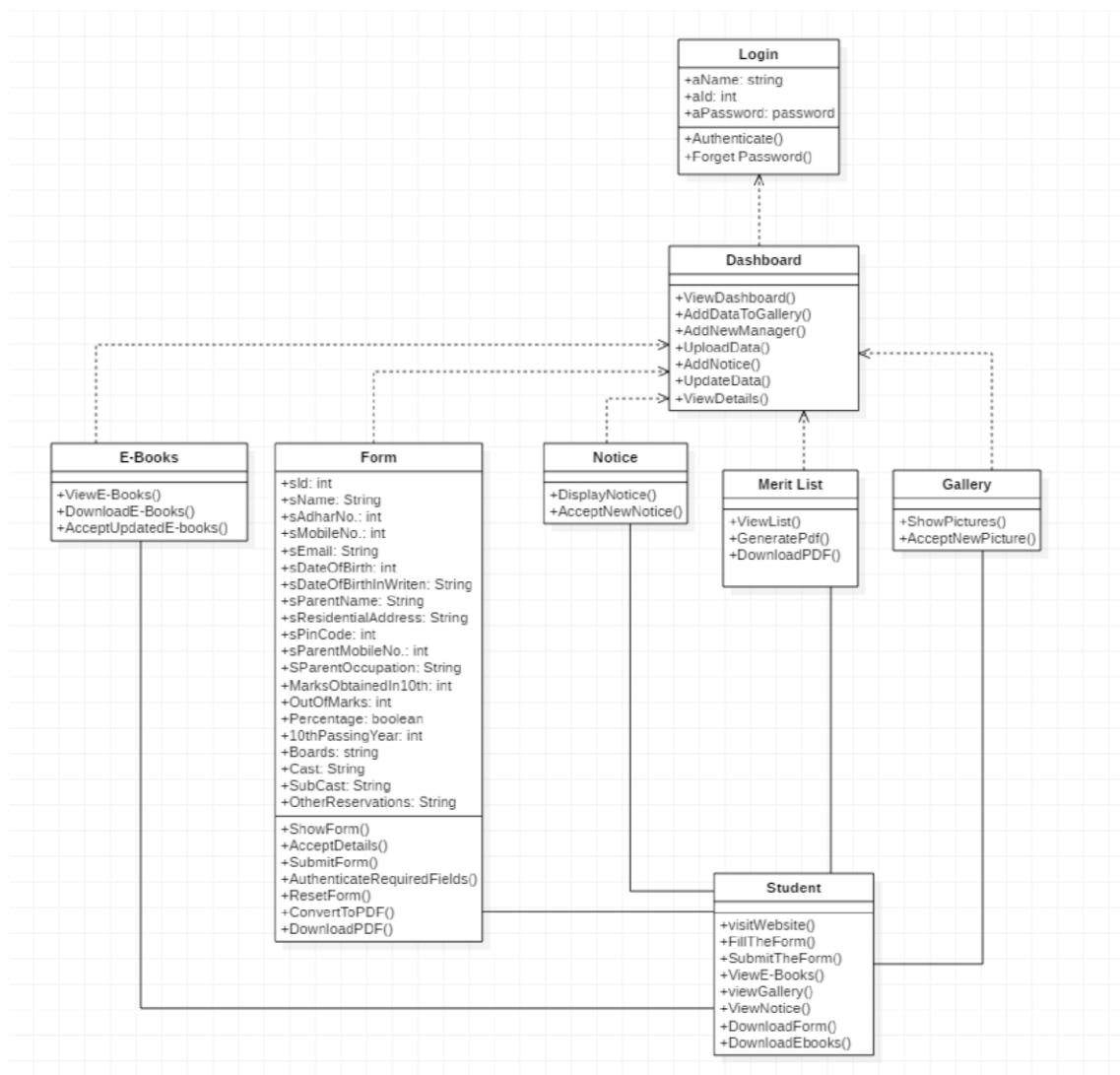
- E-Books:



2. ER Diagram:

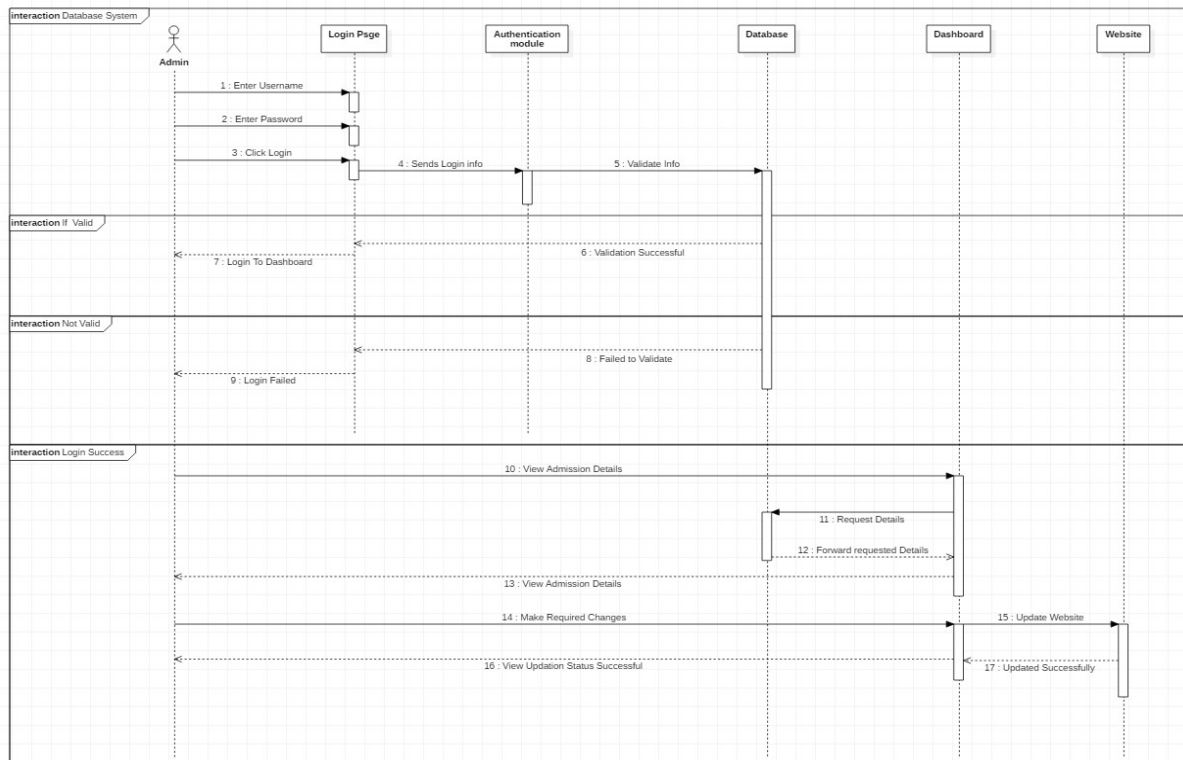


3. Class Diagram:

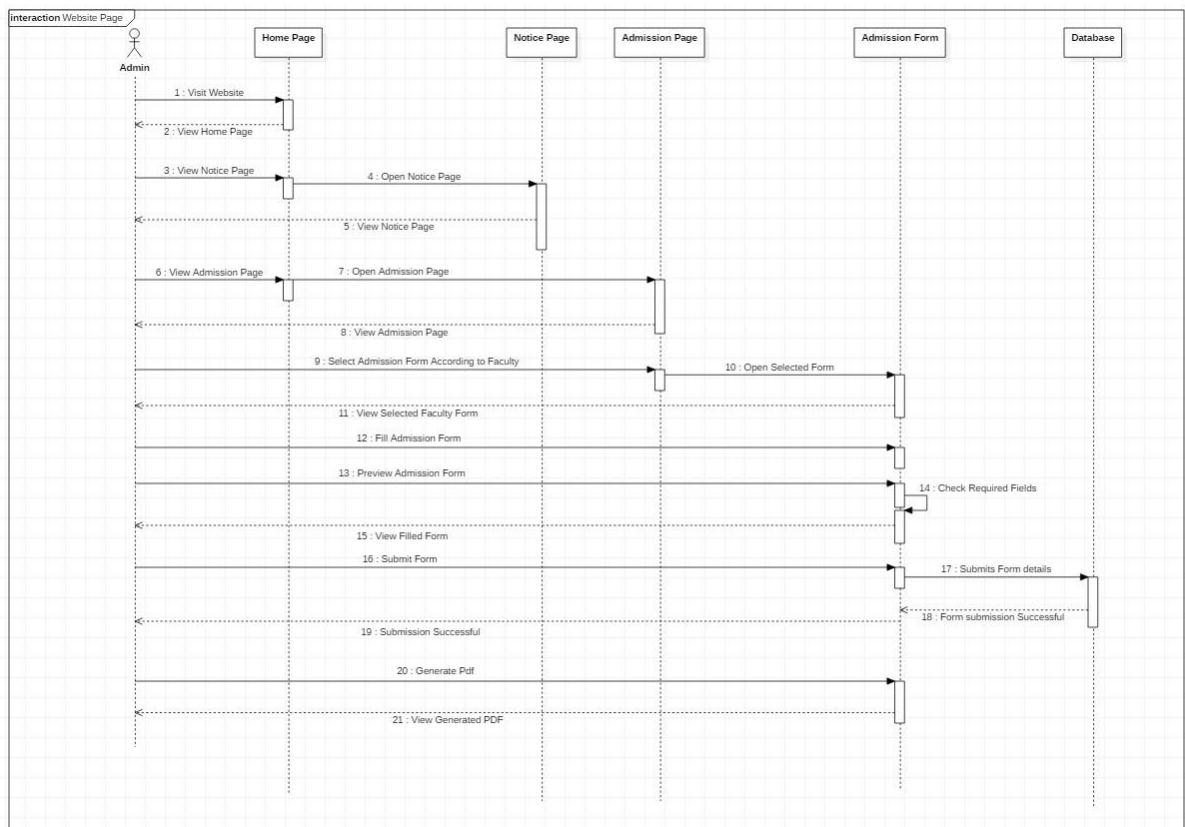


4. Sequence Diagram:

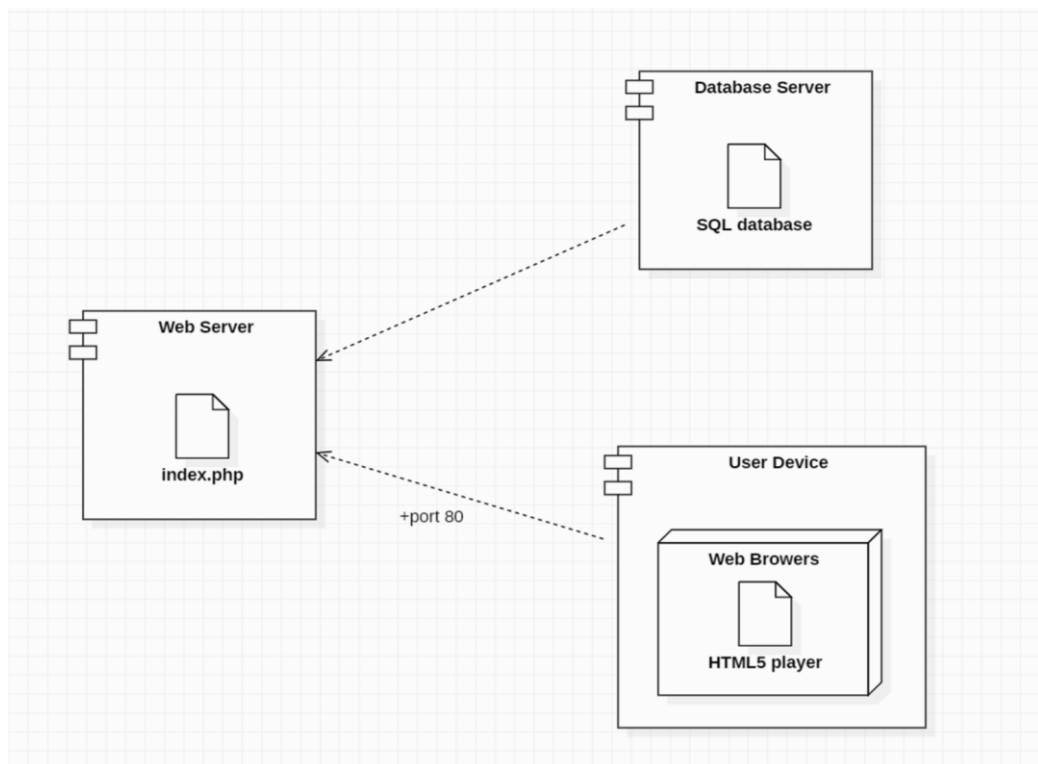
- Database:



- Website Page:



5. Deployment Diagram:



4. Event Table

Event	Trigger	Source	Activity	Output	Destination
Login	Admin wants to Make Changes in Notice and Merit list	System	Add new Photos / Videos / Notices	Changes Made	Admin
Notice Page	Wants to know latest Notice and alerts	System	Latest Notice viewed	Views Notice	Admin and Student User
View Admission Form	Apply a Admission	System	Admission Process Details	View Admission Form	Student User
Fill Admission Form	Confirm Admission	System	Form Filling	Form Filled Successfully and Generate Roll No.	System and Student User
Generate Merit List	See the eligibility	System	Download Pdf / File	Pdf download or Merit List shown	Student User
View EBooks	Reading textbooks online	System	View or download EBooks	E-books Shown or Download	Student User
Gallery	Insert newly activities	System	Photos and videos Uploaded by admin	College Function / Program Photos Displayed	Admin and Student User

5. SYSTEM DESIGN

5.1 Module Division

The system module is basically divided into five modules as per the functionality. They are as follows:

Module 1: Admin Login

This module will consist login screen for the Admin. Admin has to go through this window for further steps.

Module 2: Admission Form

This module will show the Admission Form. Student can download the form in the PDF format after they are finished form filling and submission.

Module 3: Notice

This page will show all the notices and latest news about any upcoming event.

Admin can upload notice on this page time to time.

Module 4: Merit List

Student can see the merit list with the help of this module.

Module 5: Gallery

This module helps student to get the overview of college campus and events by checking out the photos and videos.

Module 6: E-Books

This module provides all the required learning material in digital format.

5.2 Data Design

5.2.1 Data Dictionary

This contains all data definitions for cross-referencing and for managing and controlling access to the information repository / database. It provides a very thorough interface description (comparable to Interface Control Documents) that is independent of the model itself. Changes made to a model may be applied to the data dictionary to determine if the changes have affected the model's interface to other systems. Data dictionaries do not contain any actual data from the database, only book keeping information for managing it. Without a data dictionary, however, a database management system cannot access data from the database.

5.2.2 Schema Design

- **Table Name: Admission form**

Column Name	Description	Type	Constraint
Id	Id is generated automatically when a student submit the admission form.	int(10)	Primary Key
Student Name	Full name of the student.	varchar(50)	Not Null
Student Aadhar Number	Aadhar care no. of the student.	int(10)	Not Null
Student Mobile Number	Mobile no. of the student.	int(10)	Not Null
Student Email	Email of the student	varchar(50)	Not Null
Student Date Of Birth	Date of birth of the student.	int(10)	Not Null
Student Date Of Birth In Written	Date of birth of student in written format.	varchar(50)	Not Null

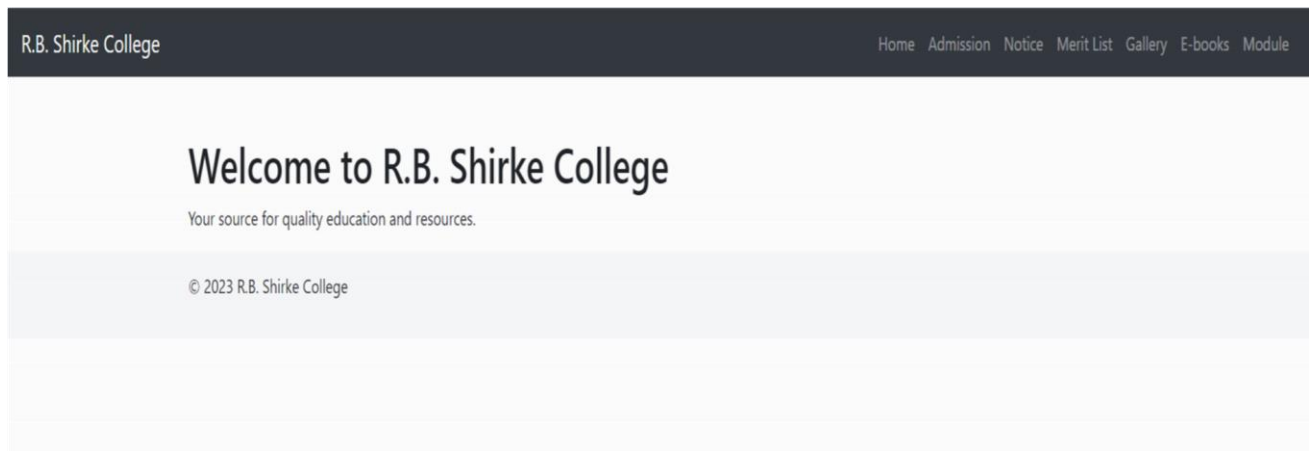
Parent Name	Full name of student's parent.	varchar(50)	Not Null
Student Residential Address	Full residential address of student.	varchar(100)	Not Null
Pin Code	Area's pin code.	int(10)	Not Null
Parent Mobile Number	Student's parent mobile number.	int(10)	Not Null
Parents Occupation	Occupation of student parent.	varchar(50)	Not Null
10 th Passing Year	Student's 10 th passing year.	int(10)	Not Null
Boards	SSC board's.	varchar(50)	Not Null
Cast	Student's cast.	varchar(50)	Not Null
Sub-Cast	Sub-Cast if any.	varchar(50)	Not Null
Other Reservations	Other reservations for student.	varchar(50)	Not Null

• **2. Table Name : Admin Panel**

Column Name	Description	Type	Constraint
Admin ID	ID number of the admin	int(10)	Primary Key
Admin Name	Name of the admin who is going to login into login panel.	varchar(50)	Not Null
Admin Password	Correct Password for Login.	varchar(20)	Not Null

5.2.3 User Interface Design

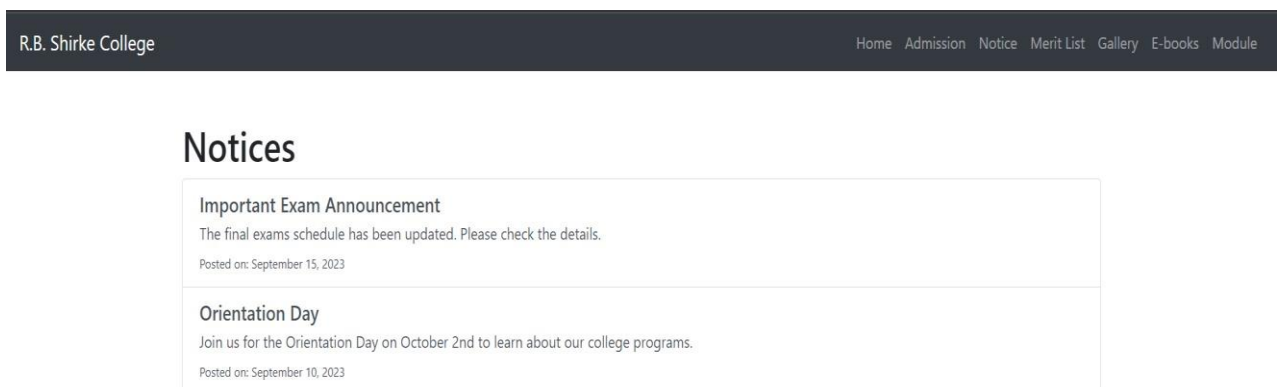
- **Home Page:**



- **Admission Page:**

The screenshot displays the admission page. It features a dark navigation bar at the top with the college name and links. The main heading is "Admission", followed by the sub-heading "Program of Interest:". Below this are three input fields: "Name:" with a placeholder "Enter your name", "Email:" with a placeholder "Enter your email", and "Program of Interest:" with a dropdown menu showing "Select a program". A blue "Submit" button is positioned below the dropdown.



- **Notice Page:**



- **Merit List Page:**

R.B. Shirke College			Home	Admission	Notice	Merit List	Gallery	E-books	Module
Merit List									
Rank	Name					Score			
1	Student1					95%			
2	Student2					93%			

- **Gallery page:**

R.B. Shirke College			Home	Admission	Notice	Merit List	Gallery	E-books	Module
Gallery									
									
Description of Image 1.		Description of Image 2.							

- **E-Books Page:**

R.B. Shirke College			Home	Admission	Notice	Merit List	Gallery	E-books	Module
E-Books									
Introduction to Physics									
A comprehensive guide to fundamental principles of physics.									
Author: John Doe									
Programming Basics									
Learn the basics of programming with this e-book.									
Author: Jane Smith									

6. References :

- <https://www.rbshirkehighschool.com/>
- <https://staruml.io/>
- <https://gjcrtn.ac.in/>
- <https://getbootstrap.com/>