

REQUIREMENT SPECIFICATION DOCUMENT

Pawan Prakriti School's Website

Version 1.0

Deadline:

Table of Contents

1.	Introduction	4
	Purpose of the Document	4
	Document Audience	4
	Document Audience	4
2.	Website Overview	4
	2.1. Overall Description	4
	2.2. Product Function	4
	2.3. User Classes and Characteristics	5
	2.4. Operating Environment	5
	2.5. Design and Implementation Constraints	5
	2.6. User Documentation	5
	2.7. Assumptions and Dependencies	5
3.	Functional Requirements	5
	3.1. Website Features	5
	3.1.1. Home Page	5
	3.1.2. Navbar	7
	3.1.3. Footer	9
	3.1.4. About Us	10
	3.1.5. Academics	12
	3.1.6. Our Facilities	13
	3.1.7. Gallery	15
	3.1.8. News & Events	16
	3.1.9. Contact	17
	3.1.10. Apply Now	18
	3.1.11. Brochure	23
	3.1.12. Result	23
	3.1.13. Events (Calendar)	24
	3.2. Admin Panel	25
	3.2.1. User Management	25
	3.2.2. About Us	27
	3.2.3. Academics Management	28
	3.2.4. Facilities Management	28

3.2.5. Gallery Management	29
3.2.6. News & Events Management	30
3.2.7. Application Management	32
3.2.8. Result	37
3.2.9. Contact	38
3.2.10. Event (Calendar) Management	39
3.3. Design Guidelines	40
3.3.1. Visual Style and Branding	40
3.3.2. Layout and Composition	41
3.3.3. User Interface Elements	41
3.3.4. Content Strategy	41
3.3.5. Performance and Optimization	41
3.3.6. Accessibility	42
3.4. Technological Requirements	42
3.4.1. Technology Stack	42
3.4.2. Integration with APIs	42
3.4.3. SEO Optimization	42
4. Non-Functional Requirements	42
4.1. Usability	42
4.2. Reliability	42
4.3. Performance	43
4.4. Compatibility	43
4.5. Security	43
4.6. Scalability	43
5. Assumptions and Constraints	43
5.1 Assumptions	43
5.2 Constraints	43
6. System Constraints	44
6.1 Hardware and Software Requirements	44
6.2 Development and Deployment Constraints	44
7. Risks and Dependencies	44
7.1 Risks and Mitigation Strategies	44
7.2 Dependencies	44

1. Introduction

Purpose of the Document

This document provides a detailed description of the Pawan Prakriti School's website and its requirements and serves as a foundation for the design, development, testing, and implementation of the website. This document outlines the functional and non-functional requirements for developing and implementing the Pawan Prakriti school's website. This document also specifies the developed website's acceptance criteria at the time of project sign-off.

Document Audience

This document's primary audience includes stakeholders involved in the application's development, including the project manager, testers, and other relevant team members.

Document Audience

API	Application Programming Interface
SRS	Software Requirements Specification
UI	User Interface
UX	User Experience

2. Website Overview

2.1. Overall Description

The project aims to redesign and develop a comprehensive new website for the promotion and marketing purposes of the Pawan Prakriti School. This document outlines the requirements for the website development of the Pawan Prakriti school's website along with its content management system. The revamp will focus on UI/UX redesign and content restructuring to provide an intuitive, informative, and visually appealing platform for students, parents, teachers, and other stakeholders.

2.2. Product Function

- Display information about the school's academic programs, achievements, and extracurricular activities.
- Provide communication and engagement with parents, students, and the community.
- Enhance user engagement and optimize the website to reflect the brand identity of Pawan Prakriti School.
- Present up-to-date information about the school to the stakeholders through the modern, and intuitive website.

2.3. User Classes and Characteristics

- Potential Users: Parents and students (current and potential) wanting to gain further information about the school.
- Registered Users: Registered students and their parents.
- General Visitors: Anyone exploring the website out of curiosity.

2.4. Operating Environment

- The website should be accessible on all major web browsers (Chrome, Firefox, Edge, Safari) on various desktop and mobile operating systems.
- It should support a variety of screen resolutions to ensure optimal viewing experience across devices.

2.5. Design and Implementation Constraints

- The website must adhere to branding guidelines for consistency with the Pawan Prakriti school's logo and colors.
- The design must be responsive to adapting the website layout for mobile, laptop, tablet, and desktop devices.

2.6. User Documentation

- No user manual will be provided, as the website is intended for intuitive navigation and exploration.
- FAQs and Help Center Section
- Documentation for maintenance and future updates including style guides, design principles, and technical specifications.

2.7. Assumptions and Dependencies

- Availability of reliable internet connectivity for website access.
- Integration with backend systems for user registration and authentication.

3. Functional Requirements

3.1. Website Features

3.1.1. Home Page

Feature Description	The entry point of the website provides an overview of Pawan Prakriti
	School and its value proposition.

Functionality

Hero Section

- a. Welcome message, captivating slogan, and a very short description of the school.
- b. Three images depict either the school or the students.

- c. The Apply Now button redirects users to the "Application" page.
- d. The "Admission Open" button redirects users to the Apply page.
- e. The count of the honors and awards won by the school is also displayed.

Academic Programs

- a. Program list of the school according to the levels i.e. Plus Two and School.
- b. Plus Two shall have Management, Humanities, Education, and Law, which all when clicked shall redirect to their respective page.
- c. School shall have Pre-School (Kindergarten), Primary Level (One Five), Basic Level (Six Eight), and Senior Level (Nine Ten) which all when clicked shall redirect to their respective page.
- d. The count of the satisfied students at the school.
- e. The Contact Us button redirects users to the "Contact" page.

Organization Details

- a. Briefly about the organization.
- b. Count for the number of trending courses and qualified teachers.
- c. Mission, Vision, and Goal of the organization.
- d. A video that reflects the school.
- e. The featured video has a "Play" button, while clicked the video plays with the "Extend & Pause" button, and the video shall extend and pause respectively while clicking on the respective buttons.

Admission Process

- a. There should be 4 cards representing the 4 steps in the admission process.
- b. The steps are inquiry, application form, student assessment, and acceptance.
- c. The steps should be taken in an orderly manner, and each has a short description.

About Pawan Prakriti

- a. The title should say "Skilled Teachers and Support Staff" and have a short description of the school along with a list of important facilities.
- b. There shall be three photos on the sides to display the details about the school.
- c. The About Us button redirects users to the "About Us" page.

Testimonials

- a. The students' testimonials shall be displayed with short sayings from them, photo, name, and their current details.
- b. By dragging left and right all the listed testimonials shall be displayed.

Gallery

- a. Displaying photos and videos related to the school.
- b. In the scroller, 3 photos will be displayed at a time with the photo in the middle highlighted with the bigger size.
- c. Once the photo moves to the middle, the short title of the photo/video will also be displayed.
- d. The video will have a "Play" button, while clicked the video plays with the "Extend & Pause" button, and the video shall extend and pause respectively while clicking on the respective buttons.

News & Events

- a. The 10 most recent news will be displayed in the news and events sections, with 2 news displayed on each swipe
- b. The individual news will have the cover photo, published date, and title. There shall be a link to redirect the user to the news detail page.

Notices

- a. The 10 most recent notices shall also be displayed on the side.
- b. The individual notice will have a title and published date. There shall be an icon to redirect the user to the notices detail page when clicked.

Contact Form

- a. Google Maps of the school's location should be displayed which should be interactable, zoom in, zoom out and move features should work.
- b. The contact form shall be displayed. There should be an email address to contact the school.
- c. The form should have the following fields: Name, Email, Phone Number, Level, and Message.
- d. The form validation shall include the following:
 - The name field must have a minimum of 4 characters and a maximum of 50 characters.
 - The name field must contain valid characters (letters, spaces, and periods for initials).
 - The email address should have a minimum of 50 characters, excluding spaces, and must contain "@" and one "." after "@".
 - The phone number field must be in international format, starting with a plus sign
 (+) followed by the country code and the phone number digits.
 - The phone number field should accept the numeric value and special character '+' only.
 - The message field must have a maximum of 1000 characters.
 - The level field should have two options on the dropdown, that is Plus Two and School.
 - All the fields name, email address, phone number, level, and message, are mandatory fields.

Performance	The homepage should load quickly and smoothly across different
Requirements	devices and network connections.
	 The redirection links should function precisely and smoothly.
Security Requirements	Secure connections (HTTPS) are mandatory to protect user data.

3.1.2. Navbar

Feature Description	This is the uppermost header of all the pages of the website.
---------------------	---

Functionality

The section has been divided into the following parts and they are:

- 1. **Logo** There should be the school logo and whenever the user clicks on the logo they should be redirected to the homepage.
- 2. **Home-** The home page shall be opened by default, and when the user clicks on it, they should be redirected to it.
- 3. **About Us-** The About Us button should trigger the dropdown to open which has the following Introduction, Teams, and Our Success.
 - a. **Introduction:** Redirects to the Introduction page where the user can learn about the school in more detail.
 - b. **Teams:** Redirects to the Introduction page where the user can view the board members, instructors, and administrative members.
 - c. **Our Success:** Redirects to the Testimonials page where the user can view the testimonials made by the students.
- 4. **Academics:** The Academics button should trigger the dropdown to open which has the following Overview, Plus Two, and School Level.
 - a. Overview: Redirect to the Academics' Overview pages where the user can learn about the programs available in the school.
 - b. Plus Two: Redirect to the Plus Two pages where the user can learn about the Plus Two Level's programs in detail. The programs are:
 - i. Management
 - ii. Humanities
 - iii. Education
 - iv. Law
 - c. School Level: Redirect to the School Level pages where the user can learn about the School Level's programs in detail. The programs are:
 - i. Pre-School (Kindergarten)
 - ii. Primary Level (One Five)
 - iii. Basic Level (Six Eight)
 - iv. Senior Level (Nine Ten)
- 5. **Our Facilities:** The Our Facilities button should trigger the dropdown to open which has the following Science Lab, School Canteen, Library, Computer Lab, Transportation, School-Hostel, Sports.
 - a. **Science Lab:** Redirect to the Science Lab pages where the user can learn in detail about the science lab facility provided by the school.
 - b. **School Canteen:** Redirect to the School Canteen pages where the user can learn in detail about the school canteen facility provided by the school.
 - c. **Library:** Redirect to the Library pages where the user can learn in detail about the library facilities provided by the school.
 - d. **Computer Lab:** Redirect to the Computer Lab pages where the user can learn in detail about the computer lab facility provided by the school.
 - e. **Transportation:** Redirect to the Transportation pages where the user can learn in detail about the transportation facility provided by the school.
 - f. **School Hostel:** Redirect to the School Hostel pages where the user can learn in detail about the school hostel facility provided by the school.

- g. **Sports:** Redirect to the Sports pages where the user can learn in detail about the sports facilities provided by the school.
- 6. **Gallery:** Redirects to the Gallery page where the user can explore the photos and videos of the school.
- 7. **News & Events:** The News & Events button should trigger the dropdown to open which has the following News and Events, Notices, and Downloads.
 - a. **News and Events:** Redirect to the News and Events pages where the user can learn in detail about the news and events provided by the school.
 - b. **Notices:** Redirect to the Notices pages where the user can learn in detail about the notices provided by the school.
 - c. **Download:** Redirect to the Download pages where the user can learn in detail about the download materials provided by the school.
- 8. Contact Us- Redirects to the Contact page.

The upper section of the navbar should have the following components:

- **1. Email:** There should be the school's email address, when the user clicks on it should open the default email app of the system's new email page with the clicked email address pre-filled on it.
- 2. **Phone Number**: There should be the school's phone number.
- 3. **Brochure**: Redirect to the Download pages where the user can learn in detail about the download materials provided by the school.
- 4. **Apply Now**: Redirect to the Application pages where the user can apply directly for plus two or school.
- 5. **Results**: Redirect to the Results pages where the user can view the results published by the school for plus two or school level.
- 6. **Social Media Links**: When clicked, links to the school's social media platform should redirect the user to the school's profile.

Performance	 This should load as soon as the user moves to a new page.
Requirements	 The navbar should indicate which page the user is currently on.
	Social Media links, contact numbers, and email addresses should be
	shown at the top.

3.1.3. Footer

Feature Description	This is the lowest section of all the pages of the website.
---------------------	---

Functionality

- The school logo with the school's name and location shall be displayed.
- Available social media links (Facebook, Instagram, X, and YouTube) should be displayed as their logo and directed to the respective page when clicked.

- In the next section, the contact information should be displayed, including the mobile number, telephone number, email address, and time during which the school remains open and closed.
- The quick link section should have the following links with redirection:
 - Introduction: Redirects to the Introduction page.
 - Our Success: Redirects to the Our Success page.
 - Our Team: Redirects to the Our Team page.
 - Gallery: Redirects to the Gallery page.
 - Admission: Redirects to the Admission's Overview page.
 - Contact: Redirects to the Contact Us page.
- The Plus Two section should have the following links with redirection:
 - o Management: Redirects to the Management page.
 - Humanities: Redirects to the Our Success page.
 - o Education: Redirects to the Our Team page.
 - Law: Redirects to the Gallery page.
- The Important Link section should have the following links with redirection:
 - o Tribhuvan University: <u>Tribhuvan University</u> (tu.edu.np)
 - National Examinations Board: <u>Welcome | National Examinations Board (neb.gov.np)</u>
 - Ministry of Education: <u>Ministry of Education, Science and Technology, Singh durbar, Kathmandu, Nepal (moest.gov.np)</u>
 - Office of the Controller of Examinations: <u>Secondary Education Examination (SEE)</u>-<u>Office of the Controller of Examinations</u>
 - District Education Office, Lalitpur: <u>District Administration Office</u>, <u>Lalitpur</u> (moha.gov.np)
- Copyright: Display the copyright information.
- Terms & Conditions or Privacy Policy

Performance	 There should be a hover effect on the components of the footer
Requirements	which has re-direction links on them.
	 Social Media links, contact numbers, and the school's location
	should be shown at the top.

3.1.4. About Us

Feature Description	•	This page provides detailed information about the school environment, messages from the school representatives, teams,
		and success stories.
	•	This page also includes the admission link which redirects the user
		to the respective page.

Functionality

The About Us section has the following three sections that are Introduction, Teams, and Our Success. As the user is redirected to a page the page should be in this format:

• Introduction

 The Introduction page has the "About Us" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.

About Pawan Prakriti

- Then in the section below, there is the title should say "Skilled Teachers and Support Staff" and have a short description of the school along with a list of important facilities.
- There shall be three photos on the sides to display the details about the school.
- The Apply Admission button redirects users to the "Apply Now" page.

Voice of Representative Section

- In this section, the sayings from the management team of the school are displayed.
- The section has the management member's position, the sayings, his name, and position below. Then there is a photo section along with the member's social media links.
- Below there are cards that can be clicked to view the member's details.

Contact Form

- Google Maps of the school's location should be displayed which should be interactable, zoom in, zoom out and move features should work.
- The contact form shall be displayed. There should be an email address to contact the school.
- The form should have the following fields: Name, Email, Phone Number, Level, and Message.
- The form validation shall include the following:
 - The name field must have a minimum of 4 characters and a maximum of 50 characters.
 - The name field must contain valid characters (letters, spaces, and periods for initials).
 - The email address should have a minimum of 50 characters, excluding spaces, and must contain "@" and one "." after "@".
 - The phone number field must be in international format, starting with a plus sign (+) followed by the country code and the phone number digits.
 - The phone number field should accept the numeric value and special character '+' only.
 - The message field must have a maximum of 1000 characters.
 - The level field should have two options on the dropdown, that is Plus Two and School.
 - All the fields name, email address, phone number, level, and message, are mandatory fields.

Teams

- The Teams page has the "Our Team" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- There are three tabs on the page i.e., Our Board Members, Our Expert Instructor, and Administration Members.
- All three tabs are clickable. The "Our Board Members" tab is open by default.

- o Each tab has a list of the members of the school team.
- o Each item has the member's photo, full name, and position.

Our Success

- The Success page has the "Testimonials" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- On the page there are testimonials made by the past and current students.
- Each testimonial has the sayings by the students, their photo, full name, and current details.
- There should be a pagination below the testimonials, where users can click on the left and right arrows and navigate through previously published ones.

 The images should be loaded instantly and clearly.
--

3.1.5. Academics

Feature Description	This page provides detailed information about the academic
	services available at the school.
	 This page also includes the Overview, Plus Two, and School Level
	links which redirect users to the respective page.

Functionality

The academics section has the following three sections that are Overview, Plus Two, and School Level. As the user is redirected to a page the page should be in this format:

• The Overview page has the "Academics" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.

Plus Two

- The first section has the "Plus Two" title and a short description of the level along with a photo to represent the level.
- Then there is the list of the available programs, i.e.,
 - Management: Redirects to the Management page.
 - Humanities: Redirects to the Our Success page.
 - Education: Redirects to the Our Team page.
 - Law: Redirects to the Gallery page.
- Then there is a "Fostering a Community of Learning" section with a very small description. Then "Apply to Plus Two Programs" and "Apply to School Level Programs" should redirect to the apply page respectively.

School Level

- The first section has the "School Level" title and a short description of the level along with a photo to represent the level.
- o Then there is the list of the available programs, i.e.,
 - Pre-School (Kindergarten): Redirects to the Pre-School page.
 - Primary Level (One Five): Redirects to the Primary Level page.
 - Basic Level (Six Eight): Redirects to the Basic Level page.
 - Senior Level (Nine Ten): Redirects to the Senior Level page.

Performance Requirements	 The selected webpage heading should be marked (on the navbar) to let the user know on which site/link they are.
	 The Academics page should load smoothly and display all the information included in this page.
	 As the user scrolls downward/upward on the webpage, the navbar should remain the same and visible.
	 The user should get redirected to the destined links smoothly without any delay.
	 When the user selects the different programs then the information/description should be displayed smoothly, and the image should also load precisely.
	 As the user selects the different programs then the selected programs shall be highlighted.
	The footer remains the same.

3.1.6. Our Facilities

Feature Description	•	This page covers detailed information regarding the facilities &
		services offered by the school.
	•	This page also includes the list of facilities that should redirect the
		users to the respective facilities' page.

Functionality

Our facilities section should contain the links to the following facilities pages. The pages are:

Science Lab

- The Science Lab page has the "Science Lab" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- The below section should have a "Science Lab" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.
- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides, the content should change accordingly but the default photo shall be only one photo.

• School Canteen

 The School Canteen page has the "School Canteen" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.

- The below section should have a "School Canteen" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.
- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides, the content should change accordingly but the default photo shall be only one photo.

Library

- The library page has the "Library" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- The below section should have a "Library" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.
- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides, the content should change accordingly but the default photo shall be only one photo.

• Computer Lab

- The Computer Lab page has the "Computer Lab" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- The below section should have a "Computer Lab" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.
- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides,
 the content should change accordingly but the default photo shall be only one photo.

Transportation

- The Transportation page has the "Transportation" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- The below section should have "Transportation" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.
- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides, the content should change accordingly but the default photo shall be only one photo.

School Hostel

- The School Hostel page has the "School Hostel" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- The below section should have "School Hostel" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.

- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides,
 the content should change accordingly but the default photo shall be only one photo.

• Sports

- The Sports page has the "Sports" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.
- The below section should have "Sports" and then a title and a short description of the facility.
- The "Apply for Admission" button should redirect the user to the "Apply Now" page.
- There should be photos of the facilities in the slider where the user can click on the arrow button.
- The user should be able to click on a particular photo and have the default photo. Besides, the content should change accordingly but the default photo shall be only one photo.

Performance Requirements	 The selected webpage heading should be marked (on the navbar) to let the user know on which site/link they are. The Facilities page should load smoothly and display all the information included in this page. As the user scrolls downward/upward on the webpage, the navbar should remain the same and visible. The user should get redirected to the destined links smoothly without any delay. The images should be loaded instantly and clearly.
	 The images should be loaded instantly and clearly. The selected photo should be displayed properly. The footer remains the same.

3.1.7. Gallery

Feature Description	This page covers the photos & videos section which helps the user
	to get up to the visual details about the school.
	• This page also includes the breadcrumbs which redirects the user to
	the respective page.

Functionality

The Gallery page has the "Gallery" page title and the breadcrumb. The breadcrumb should be clickable and should redirect to the respective page.

• The page should have a tab for photos and videos.

Photos

- The photos tab should have all the recent photos displayed.
- o If a user hovers over a photo, then the title of the photo should be displayed.
- The user can click on the specific photo, view through the photo viewer, and click on the left and right arrow to go through the other photos as well.

Video

The videos tab should have all the recent videos displayed.

- If a user hovers over a video, then the title of the photo should be displayed.
- The user can click on the play button or full-screen button, the video should be played through the player.

Performance Requirements	 The selected webpage heading should be marked (on the navbar) to let the user know on which site/link they are. The gallery page should load smoothly and display all the information included in this page. As the user scrolls downward/upward on the webpage, the navbar should remain the same and visible.
	The user should get redirected to the destined links smoothly
	without any delay.The images and videos should be loaded instantly and clearly.

3.1.8. News & Events

Feature Description	•	This section covers the news & events, notices, and download page
		which helps the user to get up to date regarding school events.
	•	The pages in this section also include the breadcrumbs which
		redirect the user to the respective page.

Functionality

The News & events sections should contain the following pages i.e. news & events, notices, and download page. The details of the pages are:

• News & Events

- All the recent news & events should be displayed along with the image, published date, and the notice titles.
- The news & events are categorized into these types, and they are co-curricular activities, extracurricular activities, educational tours, and awards & achievements.
- There should be a pagination below the news & events, where users can click on the left and right arrows and navigate through previously published ones.
- The user can click on the news & events and be redirected to the detail page.
- The detail page should have the published date, cover photo, title, and the whole description of the news & events.
- On the right side, there shall be a section for recent posts, downloads, and admissions banners.
- The recent post section should have the most recent three notices & events along with their title and published date. When
- The download section should also have the most recent two downloads along with their redirection link.
- The admission banner when clicked should redirect the user to the "Apply Now" page.

Notices

o All the recent notices should be displayed along with the notice titles and published date.

- The individual notice should also have a share icon, when clicked should open a pop-up that shall have the share link for social media (X, Facebook, YouTube, Instagram) and a page link that the user can copy and share.
- The notices are categorized into these types, and they are General, Holiday, Exams & Results, and Admission.
- There should be a pagination below the notices, where users can click on the left and right arrows and navigate through previously published ones.
- o The user can click on the notices and be redirected to the detail page.
- The detailed page should have the published date, title, short description, and a photo of the notices.
- On the right side, there shall be a section for recent posts, downloads, and admissions banners.
- The recent post section should have the most recent three notices & events along with their title and published date. When
- The download section should also have the most recent two downloads along with their redirection link.
- The admission banner when clicked should redirect the user to the "Apply Now" page.

Download

- The page should include the "Brochure" title and the breadcrumbs which redirect the user to the respective page.
- o There should be a list of downloadable activities.
- o Each item should have a photo, title, and published date.
- There should also be a download icon, when clicked should download the file in the user's device.

3.1.9. Contact

Feature Description	This page provides detailed information about the school's contact
	information along with the school's location map.
	• The contact information includes the email, phone number, and
	time the school is open and closed.

Functionality

The page should contain the title "Contact Us" and include the breadcrumbs which redirect the user to the respective page.

- There should be three cards with phone, email, and time.
- Then, below there should be the school's location map and the contact form on the right-hand side.
- Google Maps of the school's location should be displayed which should be interactable, zoom in, zoom out and move features should work.
- The contact form shall be displayed. There should be an email address to contact the school.
- The form should have the following fields: Name, Email, Phone Number, Level, and Message.
- The form validation shall include the following:
 - i. The name field must have a minimum of 4 characters and a maximum of 50 characters.
 - ii. The name field must contain valid characters (letters, spaces, and periods for initials).

- iii. The email address should have a minimum of 50 characters, excluding spaces, and must contain "@" and one "." after "@".
- iv. The phone number field must be in the international format, starting with a plus sign (+) followed by the country code and the phone number digits.
- v. The phone number field should accept the numeric value and special character '+' only.
- vi. The message field must have a minimum of 5 and a maximum of 1000 characters.
- vii. The level field should have two options on the dropdown, that is Plus Two and School.
- viii. All the fields name, email address, phone number, level, and message, are mandatory fields.

3.1.10. Apply Now

Feature Description	•	This page provides a section for the users to apply for the school's
		plus two or school level.
	•	This page also includes the form for the application.
	•	The pages in this section also include the breadcrumbs which
		redirect the user to the respective page.

Functionality

The page should contain the title "Apply Now" and include the breadcrumbs which redirect the user to the respective page.

By default, the "+2 Registration Form" should be selected, and both the "School Registration Form" and "+2 Registration Form" should be clickable.

+2 Registration Form

- This section should have a short description and the form should be below that.
- The form is also divided into three sections i.e., Personal Information, Family Details, and Previous School Detail.

• Personal Information

- This section shall have the following fields i.e., first name, middle name, last name, street address, city, province number, gender, date of birth (AD), mobile number, email, and files.
- The fields should have the following validations:
 - The first name, middle name, and last name fields must have a minimum of 4 characters and a maximum of 20 characters.
 - The first name, middle name, and last name fields must contain valid characters (letters, and spaces).
 - The first name and last name fields are mandatory.
 - The street address field is required and must have at least 4 and a maximum of 50 characters.
 - The city is a required field and must have at least 4 and a maximum of 30 characters.
 - The province number field is required, and the user must select from the predefined list of provinces (1: Koshi Province, 2: Madhesh Province, 3: Bagmati

- Province, 4: Gandaki Province, 5: Lumbini Province, 6: Karnali Province, 7: Sudurpashchim Province)
- Gender is a required field, and the user must select from the predefined list.
 (Male, Female, and Others)
- The date of birth is a required field, and the user must select the date from the past from the date selectors. The date should be saved in YYYY-MM-DD format.
- The mobile number is a required field which must have 10 digits.
- The email address is a required field, does not have spaces, and must contain "@" and one "." after "@".
- The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.

• Family Details

- This section shall have the following fields i.e., father's name, father's profession, father's mobile number, local guardian's name, local guardian's profession, and local guardian's phone number.
- o The fields should have the following validations:
 - The father's name field is required, must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
 - The father's profession field is optional, if entered it must have a minimum of 2 and a maximum of 50 characters.
 - The father's mobile number is a required field which must have 10 digits.
 - The local guardian's name field is optional. If entered it must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
 - The local guardian's profession field is optional. If entered it must have a minimum of 2 and a maximum of 50 characters.
 - The local guardian's mobile number is an optional field that must have 10 digits.

• Previous School Detail

- This section shall have the following fields i.e., previous school name, previous school address, previous school board, SEE symbol number, SEE GPA point, and SEE GPA Grade.
- The fields should have the following validations:
 - The previous school's name field is required and accepts letters, numbers, spaces, and special characters (hyphens, periods). The minimum length of the school's name is 3 and the maximum is 150 characters.
 - The previous school address is a required field and accepts letters, numbers, spaces, and special characters (commas, periods). The minimum length of the school address is 5 and the maximum is 200 characters.
 - The previous school board is a required field and accepts letters, spaces, and special characters (hyphens, periods). The minimum character length is 5 and the maximum is 80.
 - The SEE symbol number is a required field and accepts only letters and alphabets.
 The length of the SEE symbol number must be 9 characters.
 - The SEE GPA point is a required field and must be a numeric value, the minimum value is 0.0 and the maximum value is 4.0. The entered value must be in numeric

value. The minimum character length is 3 and the maximum character length is 5.

- The SEE GPA Grade is a required field the user must select from the predefined list of grades. (A+, A, B+, B, C+, C, D).
- Another section called "Course Detail" shall have the following fields i.e., Choose Level, Hostel, Shift, and Transportation.
- The fields should have the following validations:
 - The Choose Level is a required field the user must select from the predefined list (Education, Management, Humanities, Law).
 - The Choose Shift is a required field the user must select from the predefined list (Morning, Day).
 - The Hostel is a required field the user must select from the predefined list (Yes, No).
 - Transportation is a required field the user must select from the predefined list (Yes, No).

Form Navigation and Validation

The +2 Registration Form consists of three sections: Personal Information, Family Details, and Previous School Details.

- Users must complete and validate the "Personal Information" section before proceeding to "Family Details".
- A "Next" button allows navigation to the subsequent section, this button is available in the "Personal Information", and "Family Details" sections.
- A "Previous" button is available on the "Family Details" and "Previous School Details" sections to allow the users to return to the previous step.
- All required fields in each section must be filled correctly before proceeding to the next section before submitting the form.
- A "Submit" button is available on the "Previous School Detail" in place of "Next" so that the user can submit the form.
- If a user attempts to proceed to the next section without completing the current section or entering the correct information, an error message should be displayed.
- Incorrect data entry will also trigger an error message.
- Upon successful completion and submission of all form sections, a success message will be displayed.

School Registration Form

- This section should have a brief description and the form should be below that.
- The form is also divided into three sections i.e., Personal Information, Family Details, and Course Detail.

• Personal Information

 This section shall have the following fields i.e., first name, middle name, last name, street address, city, province number, gender, date of birth (AD), mobile number, email, and files.

- The fields should have the following validations:
 - The first name, middle name, and last name fields must have a minimum of 4 characters and a maximum of 20 characters.
 - The first name, middle name, and last name fields must contain valid characters (letters, and spaces).
 - The first name and last name fields are mandatory.
 - The street address field is required and must have at least 4 and a maximum of 50 characters.
 - The city is a required field and must have at least 4 and a maximum of 30 characters.
 - The province number field is required, and the user must select from the predefined list of provinces (1: Koshi Province, 2: Madhesh Province, 3: Bagmati Province, 4: Gandaki Province, 5: Lumbini Province, 6: Karnali Province, 7: Sudurpashchim Province)
 - Gender is a required field, and the user must select from the predefined list.
 (Male, Female, and Others)
 - The date of birth is a required field, and the user must select the date from the past from the date selectors. The date should be saved in YYYY-MM-DD format.
 - The mobile number is an optional field, if entered it must have 10 digits.
 - The email address is also an optional field, does not have spaces, and must contain "@" and one "." after "@."
 - The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.

Family Details

- This section shall have the following fields i.e., father's name, father's profession, father's mobile number, local guardian's name, local guardian's profession, and local guardian's phone number.
- The fields should have the following validations:
 - The father's name field is required, must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
 - The father's profession field is optional, if entered it must have a minimum of 2 and a maximum of 50 characters.
 - The father's mobile number is a required field which must have 10 digits.
 - The local guardian's name field is optional. If entered it must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
 - The local guardian's profession field is optional. If entered it must have a minimum of 2 and a maximum of 50 characters.
 - The local guardian's mobile number is an optional field that must have 10 digits.

Course Detail

- This section shall have the following fields i.e., Choose Level, Hostel, and Transportation.
- The fields should have the following validations:
 - The Choose Level is a required field the user must select from the predefined list (P.G., Nursery, L.K.G., U.K.G., One, Two, Three, Four, Five, Six, Seven, Eight, Nine).

- The Hostel is a required field the user must select from the predefined list (Yes, No).
- Transportation is a required field the user must select from the predefined list (Yes, No).

Form Navigation and Validation

The School Registration Form consists of three sections: Personal Information, Family Details, and Course Details.

- Users must complete and validate the "Personal Information" section before proceeding to "Family Details".
- A "Next" button allows navigation to the subsequent section, this button is available in the "Personal Information", and "Family Details" sections.
- A "Previous" button is available in the "Family Details" and "Course Details" sections to allow users to return to the previous step.
- All required fields in each section must be filled out correctly before proceeding to the next section and submitting the form.
- A "Submit" button is available on the "Course Detail" in place of "Next" so that the user can submit the form.
- If a user attempts to proceed to the next section without completing the current section or entering the correct information, an error message should be displayed.
- Incorrect data entry will also trigger an error message.
- Upon successful completion and submission of all form sections, a success message will be displayed.

Performance
Requirements

- The selected webpage heading should be marked (on the navbar) to let the user know on which site/link they are.
- The admission page should load smoothly and display all the information included in this page.
- As the user scrolls downward/upward on the webpage, the navbar should remain the same and visible.
- The user should get redirected to the destined links smoothly without any delay.
- The forms should be validated appropriately in an appropriate format.
- When the user clicks on the School Registration Form then the user should get redirected to the respective tab.
- +2 Registration form should be opened by default.
- The user should be able to click on the dropdown to extend and hide the forms for the respective details.
- Once the user completes filling in one category form and clicks on the "Next" button if the form is valid then another form should open, otherwise an alert regarding the error should be displayed.
- The footer remains the same.

3.1.11. Brochure

Feature Description	•	This page covers the list of all the available download materials.
	•	This page also includes the same page as the Downloads page.

Functionality

The Brochure page shall be the same as the page in the News & Events Download page.

- The page should include the "Brochure" title and the breadcrumbs which redirect the user to the respective page.
- There should be a list of downloadable activities.
- Each item should have a photo, title, and published date.
- There should also be a download icon that should download the file to the user's device when clicked.

Performance Requirements	 The selected webpage heading should be marked (on the navbar) to let the user know on which site/link they are. The Brochure page should load smoothly and display all the information included on this page. As the user scrolls downward/upward on the webpage, the navbar should remain the same and visible.
	 The user should be able to download the file on their device once they click on the download button.
	 The images should be loaded instantly and clearly.
	 The footer remains the same.

3.1.12. Result

Feature Description	 This page provides a section for the users to view the results of the school's plus two or school level. This page also includes the filter.
	 The pages in this section also include the breadcrumbs which redirect the user to the respective page.

Functionality

The page has "Result" as the title and includes the breadcrumbs which redirect the user to the respective page.

By default, the "Plus Two" should be selected, and both the "School Level" and "Plus Two" should be clickable. The tabs should have the following format:

- There should be a "Result of Plus Two" title table with a filter on the side.
- Filter
 - i. To filter, the user should click the filter by programs section (Management, Education, Law, and Humanities), and from the dropdown menu click on an option and then click the filter button.
 - ii. Then, the available list of results will be displayed.

- iii. The individual result has the result's title, published date, and a download icon.
- iv. When the user clicks on the download icon, it should automatically download the file to the user's device.
- v. If there are no results published on that program or anything has not been selected on the filter section, then "No Results Shown" is displayed.
- On the Plus Two section, the filter dropdown has the following options Management, Humanities, Education, and Law.
- On the School Level section, the filter dropdown should have the following options Pre-school (Kindergarten), Primary Level (One -Five), Basic Level (Six Eight), and Senior Level (Nine Ten).

Performance Requirements	 The selected webpage heading should be marked (on the navbar) to let the user know on which site/link they are.
	 The Results page should load smoothly and display all the information included in this page.
	 As the user scrolls downward/upward on the webpage, the navbar should remain the same and visible.
	 The user should get redirected to the destined links smoothly without any delay.

3.1.13. Events (Calendar)

Feature Description	This page provides a section for users to view the calendar of the
	school plus two or school level.
	 This page also includes the filter for the listed events that are today, week, and month.
	 The pages in this section also include the breadcrumbs which redirect the user to the respective page.

Functionality

The page has "Events" as the title and includes the breadcrumbs which redirect the user to the respective page.

By default, the current month should be viewed, and the month should be clickable so that user can select the month and year of their choice to view the details. The calendar section should have the following format:

- The calendar should be shown on the left side with basic highlights of the events and a section on the right where all the events of that month should be listed in chronological order.
- The calendar should have clear distinctions between different types of events to be visually appealing and well-organized.
- The events type and color associated with them should be following:

i. School Holidays: Redii. Exams: Light Green

iii. Clubs and Sports Events: Grayiv. Extra-curricular Programs: Brown

v. PTA Meetings: Dark Bluevi. Educational Tours: Orange

- vii. Ceremonies: Pink
- The events in the calendar section and the section on the right should be the same.
- The event on the calendar section should just have the name of the event and associated color displayed on the particular date.
- If there is more than 1 event on the same day, then instead of the name of the event an icon with '+' and number of events is displayed, when clicked scroll the right-side section to the specific list of events for the particular day.
- The events on the right of the calendar section should have the name of the event, the date of the event, the time of the event, and the color associated with the event.
- The user should be able to click on the dropdown beside the month and date and select another month and date to view the data of that time.
- The user should also be able to just click on the next arrow to move to the next month from the currently selected and click on the previous arrow to move to the previous month from the currently selected.
- If the user clicks on any particular event on the calendar, then a pop-up modal shall open with details about the event that includes the event name, date, time, and a short description. The modal shall have a cross button that the user can click to close the modal.
- The right-side section shall have a filter to display "Today", "Week", and "Month" events.
 - i. By clicking on "Today", the events of the current date should be displayed, else no events message shall be displayed.
 - ii. By clicking on "Week", the events of the current week should be displayed, else no events message shall be displayed.
 - iii. By clicking on "Month", the events of the month selected on the calendar should be displayed, else no events message shall be displayed.

Performance	 The selected webpage heading should be marked (on the navbar) to
Requirements	let the user know on which site/link they are.
	 The Events page should load smoothly and display all the information included in this page.
	 As the user scrolls downward/upward on the listed events section, the calendar should remain the same and visible.

3.2. Admin Panel

3.2.1. User Management

User Setup

This table stores users. The user can edit the profile after being registered and logged in as a user in the Profile Menu. Users can then add a profile picture and make any changes.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	User ID	Integer		No	Unique ID of the user.

2.	Username	Varchar		No	Username of the respective
					user.
3.	Email	Varchar	Yes	Yes	Email of the user.
4.	Change Password	Varchar	Yes	Yes	A unique password for the user
					to log in.
5.	Phone Number	Integer	Yes	Yes	Phone number of the user.
6.	Profile Photo	Image	Yes	Yes	Profile photo of the respective
					user.

Validation

- The username shall not be empty, and the minimum/maximum username and full name length shall be 4 and 32, 3 and 50 characters.
- The username and email shall be case-insensitive.
- The email provided shall be unique.
- The email shall be in an appropriate format (<u>abc@def.com</u>).
- Phone numbers if provided shall also be unique and country codes shall be retrieved from the dropdown menu.
- The total length of the phone number should be within the minimum and maximum number of digits allowed for the selected country code.
- The profile picture should be in JPEG, JPG, and PNG format.
- The maximum size for the profile picture shall be 4 MB.
- The minimum and maximum character length for the password shall be 6 and 32, respectively.
- The password should include at least one uppercase lowercase, numeric, and distinctive character.

Role Management

- Different user roles (admin, editor, user) should be defined with corresponding access permissions.
- Each role should have specific access rights that determine the functionalities and data that the user can interact with.

Property Type

SN	Field Name	Data Type	Description
1	Role ID	Integer	Primary Key, system generated integer number
2	Role Name	String	Type of role which includes 'admin,' 'editor'

- The admin role should have all the functionalities defined for the system including creating, updating, and deleting data.
- Admin users shall be able to manage user accounts, configure system settings, and access
 dashboards.
- Admin users can adjust access rights for users based on changing school requirements.
- Admin role shall implement access control rules and APIs to allow authorization checks for accessing and controlling data.
- Admin role users shall have access to the database access control.

- Admin Role shall have access to functionalities related to content moderation, such as creating, updating, viewing, and deleting about us, messages from the teams, galleries, amenities, and FAQs.
- User roles shall be defined with basic access permissions required to perform their tasks, such as
 creating, viewing, and editing their data, accessing public resources, and interacting with certain
 functionalities.

3.2.2. About Us

Voice of Management

In this section, the admin should be able to create and update the voice of Management.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Title	Varchar	Yes	Yes	Display the title (Voice of Director).
2.	Description	Varchar	Yes	Yes	Description of what the person has to say.
3.	Full Name	Varchar	Yes	Yes	Full Name of the member
4.	Position	Varchar	Yes	Yes	Position in the management team
5.	Photo	Image	Yes	Yes	Photo of the management member
6.	Facebook Link	URL	No	Yes	The Facebook profile link of the management member.
7.	Twitter Link	URL	No	Yes	Twitter's profile link of the management member.
8.	Instagram Link	URL	No	Yes	Instagram's profile link of the management member

- The title is the required field, it must have a minimum of 4 and a maximum of 40 characters. It should only accept alphabets and spaces.
- The description is a required field, it must have a minimum of 100 and a maximum of 1000 characters.
- The full name is a required field which must have a minimum of 4 characters and a maximum of 20 characters and must contain valid characters (letters, and spaces). The first letter of each word must be capitalized.
- The position is a required field that must have a minimum of 2 and a maximum of 20 characters and must contain valid characters (letters, spaces, and hyphens).
- The photo is also a required field, which only allows JPG, JPEG, and PNG format with a maximum file size of 5 MB.
- The Facebook, Twitter, and Instagram link fields are optional fields.

• The table must have a minimum of 2 data and can have a maximum of 4 data at a time.

3.2.3. Academics Management

Academics

In this section, the admin can create, update, and delete the different level academic programs tabs in the plus two levels.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Program Title	Varchar	Yes	Yes	Different programs are available in the academic program.
2.	Article Title	Varchar	Yes	Yes	Title of the description to be displayed on the program's page.
2.	Description	Varchar	Yes	Yes	Displays the description regarding the different academic levels.
4.	Photo	Image	Yes	Yes	Photos related to the program.

Validations

- The program title field is mandatory, and it must have a minimum of 4 characters and a maximum of 20 characters.
- The article title field is mandatory, and it must have a minimum of 10 and a maximum of 60 characters. The title should accept letters, numbers, and special characters (comma, period, question mark, hyphen).
- The description field is mandatory, and it must have a minimum of 200 characters and a maximum of 2000 characters.
- The program titles can be either related to the Plus Two or School Level section.
- The programs available in the Plus Two are Management, Humanities, Education, and Law.
- The programs available at the school level are preschool (kindergarten), primary level (One Five), basic level (Six Eight), and Senior level (Nine Ten).
- The photos field should not exceed more than 5 MB per photo. The photo type to be accepted shall be JPG, JPEG, and PNG. Only three images can be uploaded.
- The admin can create, edit, and update the four tabs. The four tabs contain the distinct levels of academic programs offered by the school.
- The selected tab should be highlighted.
- The admin should be able to categorize the different academic-level programs and create, update, and delete the description.

3.2.4. Facilities Management

Facilities

In this section, the admin can create, update, and delete the facilities details and the images.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Images	Image	Yes	Yes	Displays the supporting facilities & resources images.
2.	Facilities Title	Varchar	Yes	Yes	Displays the facilities & resources title.
3.	Article Title	Varchar	Yes	Yes	Title of the facilities' article.
3.	Description	Varchar	Yes	Yes	Description regarding the facilities & resources.

Validations

- The facilities title field is mandatory, and it must have a minimum of 4 characters and a maximum of 20 characters.
- The article title field is mandatory, and it must have a minimum of 20 and a maximum of 50 characters. The title should accept letters, numbers, and special characters (comma, period, question mark, hyphen).
- The description field is mandatory, and it must have a minimum of 50 characters and a maximum of 500 characters.
- The images field should not exceed more than 5 MB per photo. The image type to be accepted shall be JPG, JPEG, and PNG. Only nine images can be uploaded and a minimum of one image must be uploaded.
- The admin should be able to create, edit, and delete the facilities & resource titles.
- The admin should be able to create, edit, and update the facilities and resource details.
- The admin should also be able to upload the images for respective facilities and resources.

3.2.5. Gallery Management

Photo Gallery

In this section, the admin can create, update, and delete the facilities details and the images.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Media	-	Yes	Yes	Displays the supporting facilities
					& resources images.
2.	Media Title	Varchar	Yes	Yes	Title of the media's article.

- The media title field is mandatory, and it must have a minimum of 4 characters and a maximum of 20 characters.
- The media field should not exceed more than 5 MB per image. The image type to be accepted shall be JPG, JPEG, and PNG.
- Only one image can be uploaded at a time.
- The admin should be able to create, edit, and delete the facilities & resource titles.
- The admin should be able to create, edit, and update the facilities and resource details.
- The admin should also be able to upload the images for respective facilities and resources.

Video Gallery

In this section, the admin can create, update, and delete the facilities details and the videos.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Media	-	Yes	Yes	Displays the supporting facilities
					& resources videos.
2.	Media Title	Varchar	Yes	Yes	Title of the media's article.

Validations

- The media title field is mandatory, and it must have a minimum of 4 characters and a maximum of 20 characters.
- The media field should not exceed more than 15 MB per video. The image type to be accepted shall be MP4.
- Only one video can be uploaded at a time.
- The admin should be able to create, edit, and delete the facilities & resource titles.
- The admin should be able to create, edit, and update the facilities and resource details.
- The admin should also be able to upload the images for respective facilities and resources.

3.2.6. News & Events Management

News & Events

The admin can create, update, and delete the calendar in this section.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	News title	Varchar	Yes	Yes	Displays the title of the news.
2.	Published Date	Date	Yes	Yes	Displays the date, month & year.
3.	Cover Image	Image			The cover photo is to be displayed.
4.	Description	Varchar	Yes		Description regarding the news & events.
5.	Category	Varchar	Yes		The categories for the notices and events.

- The news title field is mandatory, and it must have a minimum of 20 characters and a maximum of 50 characters.
- The description field is mandatory, and it must have a minimum of 50 characters and a maximum of 500 characters. It can contain text and images.
- The cover images field should not exceed more than 5 MB. The image type to be accepted shall be JPG, JPEG, and PNG.
- The available fields for the categories should be co-curricular activities, extracurricular activities, educational tours, and awards & achievements.
- The admin should be able to add, update, delete, and the news & events.

Notices

The admin can create, update, and delete the notices in this section.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Notice title	Varchar	Yes	Yes	Displays the title of the news.
2.	Published Date	Date	Yes	Yes	Displays the date, month & year.
3.	Cover Image	Image			The cover photo is to be displayed.
3.	Description	Varchar	Yes	Yes	Description regarding the news & events.

Validations

- The notice title field is mandatory, and it must have a minimum of 20 characters and a maximum of 50 characters.
- The description field is mandatory, and it must have a minimum of 50 characters and a maximum of 500 characters. It can contain text and images.
- The cover images field should not exceed more than 5 MB. The image type to be accepted shall be JPG, JPEG, and PNG.
- The admin should be able to create, edit, and delete the title of the notice.
- The admin should be able to create, edit, and delete the description of the notices.
- The admin should be able to prioritize the notices and display the notices accordingly.

Downloads

In this section, the admin can create, update, and delete the events.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	File title	Varchar	Yes	Yes	Displays the title of the file.
2.	Published Date	Date	Yes		Displays the date, month & year.
3.	Cover Image	Image	Yes	Yes	The cover photo is to be displayed.
3.	File		Yes		The file is to be shared on the display.

- The file title field is mandatory, and it must have a minimum of 5 characters and a maximum of 40 characters.
- The cover images field should not exceed more than 5 MB. The image type to be accepted shall be JPG, JPEG, and PNG.

- The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.
- The admin should create, edit, and delete the event title.
- The admin should be able to categorize the events accordingly.
- The categories for events are: Upcoming & Completed
- The admin should be able to create, edit, and delete the description of the events.
- The admin should be able to prioritize the events and display the events accordingly.
- The cover image's maximum size shall be 4 MB and should be in JPEG/PNG format.

3.2.7. Application Management

+2 Registration Form

In this section, the admin can create, update, and delete the admission process & criteria.

Personal Information

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	First Name	Varchar	Yes	Yes	First name of the applicant.
2.	Middle Name	Varchar	No	Yes	Middle name of the applicant.
3.	Last Name	Varchar	Yes	Yes	Last name of the applicant.
4.	Street Address	Varchar	Yes	Yes	Address of the applicant.
5.	City	Varchar	Yes	Yes	City of the applicant.
6.	Province Number	Dropdown	Yes	Yes	Select the province number.
7.	Gender	Dropdown	Yes	Yes	Select the available gender.
8.	Date of Birth (AD)	Date	Yes	Yes	Date of birth of the applicant.
9.	Mobile Number	Integer	No	Yes	Mobile number of the applicant.
10.	Email	Email	Yes	Yes	Email address of the applicant.
11.	Files	-	Yes	Yes	Files/Documents of the applicant.

- The first name, middle name, and last name fields must have a minimum of 4 characters and a maximum of 20 characters.
- The first name, middle name, and last name fields must contain valid characters (letters, and spaces).
- The first name and last name fields are mandatory.
- The street address field is required and must have at least 4 and a maximum of 50 characters.
- The city is a required field and must have at least 4 and a maximum of 30 characters.

- The province number field is required, and the user must select from the predefined list of provinces (1: Koshi Province, 2: Madhesh Province, 3: Bagmati Province, 4: Gandaki Province, 5: Lumbini Province, 6: Karnali Province, 7: Sudurpashchim Province)
- Gender is a required field, and the user must select from the predefined list. (Male, Female, and Others)
- The date of birth is a required field, and the user must select the date from the past from the date selectors. The date should be saved in YYYY-MM-DD format.
- The mobile number is a required field which must have 10 digits.
- The email address is a required field, does not have spaces, and must contain "@" and one "." after "@".
- The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.
- The admin should be able to create, update, and delete the admission process & criteria details (title, description, & image).

Family Details

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Father's Name	Varchar	Yes	Yes	Father's name of the applicant.
2.	Father's Profession	Varchar	No	Yes	Profession of the applicant's father.
3.	Father's Mobile Number	Integer	Yes	Yes	Mobile Number of the applicant's father.
4.	Local Guardian's Name	Varchar	No	Yes	Local Guardian of the applicant.
5.	Local Guardian's Profession	Varchar	No	Yes	Professor of the applicant's local guardian.
6.	Local Guardian's Phone Number	Integer	No	Yes	Mobile Number of the applicant's local guardian.

Validations

- The admin should be able to create, update, and delete the application for admission description.
- The admin should be able to store and retrieve the firms.
- The father's name field is required, must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
- The father's profession field is optional, if entered it must have a minimum of 2 and a maximum of 50 characters.
- The father's mobile number is a required field which must have 10 digits.
- The local guardian's name field is optional. If entered it must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
- The local guardian's profession field is optional. If entered it must have a minimum of 2 and a maximum of 50 characters.
- The local guardian's mobile number is an optional field that must have 10 digits.

Previous School Detail

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Previous School Name	Varchar	Yes	Yes	The full name of the applicant's previous school.
2.	Previous School Address	Varchar	Yes	Yes	The address of the previous school.
3.	Previous School Board	Varchar	Yes	Yes	The board of the previous school.
4.	SEE Symbol Number	Varchar	Yes	Yes	The SEE's symbol number of the applicant.
5.	SEE GPA Point	Decimal	Yes	Yes	The SEE GPA that the applicant has got.
6.	SEE GPA Grade	Varchar	Yes	Yes	The SEE GPA Grade that the applicant has got.
7.	Choose Level	Varchar	Yes	Yes	The level the applicant is applying for.
8.	Choose Shift	Varchar	Yes	Yes	The shift the applicant is applying for.
9.	Hostel	Varchar	Yes	Yes	The selection of whether the applicant wants to sign up for a hostel or not.
10.	Transportation	Varchar	Yes	Yes	The selection of whether the applicant wants to sign up for a hostel or not.

- The previous school's name field is required and accepts letters, numbers, spaces, and special characters (hyphens, periods). The minimum length of the school's name is 3 and the maximum is 150 characters.
- The previous school address is a required field and accepts letters, numbers, spaces, and special characters (commas, periods). The minimum length of the school address is 5 and the maximum is 200 characters.
- The previous school board is a required field and accepts letters, spaces, and special characters (hyphens, periods). The minimum character length is 5 and the maximum is 80.
- The SEE symbol number is a required field and accepts only letters and alphabets. The length of the SEE symbol number must be 9 characters.
- The SEE GPA point is a required field and must be a numeric value, the minimum value is 0.0 and the maximum value is 4.0. The entered value must be in numeric value. The minimum character length is 3 and the maximum character length is 5.
- The SEE GPA Grade is a required field the user must select from the predefined list of grades. (A+, A, B+, B, C+, C, D).
- The Choose Level is a required field the user must select from the predefined list (Education, Management, Humanities, Law).

- The Choose Shift is a required field the user must select from the predefined list (Morning, Day).
- The Hostel is a required field the user must select from the predefined list (Yes, No).
- Transportation is a required field the user must select from the predefined list (Yes, No).

School Registration Form

In this section, the admin can create, update, and delete the admission process & criteria.

Personal Information

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	First Name	Varchar	Yes	Yes	First name of the applicant.
2.	Middle Name	Varchar	No	Yes	Middle name of the applicant.
3.	Last Name	Varchar	Yes	Yes	Last name of the applicant.
4.	Street Address	Varchar	Yes	Yes	Address of the applicant.
5.	City	Varchar	Yes	Yes	City of the applicant.
6.	Province Number	Dropdown	Yes	Yes	Select the province number.
7.	Gender	Dropdown	Yes	Yes	Select the available gender.
8.	Date of Birth (AD)	Date	Yes	Yes	Date of birth of the applicant.
9.	Mobile Number	Integer	No	Yes	Mobile number of the applicant.
10.	Email	Email	Yes	Yes	Email address of the applicant.
11.	Files	-	Yes	Yes	Files/Documents of the applicant.

- The first name, middle name, and last name fields must have a minimum of 4 characters and a maximum of 20 characters.
- The first name, middle name, and last name fields must contain valid characters (letters, and spaces).
- The first name and last name fields are mandatory.
- The street address field is required and must have at least 4 and a maximum of 50 characters.
- The city is a required field and must have at least 4 and a maximum of 30 characters.
- The province number field is required, and the user must select from the predefined list of provinces (1: Koshi Province, 2: Madhesh Province, 3: Bagmati Province, 4: Gandaki Province, 5: Lumbini Province, 6: Karnali Province, 7: Sudurpashchim Province)
- Gender is a required field, and the user must select from the predefined list. (Male, Female, and Others)
- The date of birth is a required field, and the user must select the date from the past from the date selectors. The date should be saved in YYYY-MM-DD format.

- The mobile number is a required field which must have 10 digits.
- The email address is a required field, does not have spaces, and must contain "@" and one "." after "@".
- The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.
- The admin should be able to create, update, and delete the admission process & criteria details (title, description, & image).

Family Details

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Father's Name	Varchar	Yes	Yes	Father's name of the applicant.
2.	Father's Profession	Varchar	No	Yes	Profession of the applicant's father.
3.	Father's Mobile Number	Integer	Yes	Yes	Mobile Number of the applicant's father.
4.	Local Guardian's Name	Varchar	No	Yes	Local Guardian of the applicant.
5.	Local Guardian's Profession	Varchar	No	Yes	Professor of the applicant's local guardian.
6.	Local Guardian's Phone Number	Integer	No	Yes	Mobile Number of the applicant's local guardian.

Validations

- The admin should be able to create, update, and delete the application for admission description.
- The admin should be able to store and retrieve the firms.
- The father's name field is required, must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
- The father's profession field is optional, if entered it must have a minimum of 2 and a maximum of 50 characters.
- The father's mobile number is a required field which must have 10 digits.
- The local guardian's name field is optional. If entered it must accept only letters, spaces, and periods, and must have a minimum of 4 and a maximum of 50 characters.
- The local guardian's profession field is optional. If entered it must have a minimum of 2 and a maximum of 50 characters.
- The local guardian's mobile number is an optional field that must have 10 digits.

Course Details

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Desc	ription			
1.	Choose Level	Varchar	Yes	Yes	The	level	the	applicant	is
					apply	ing for			

2.	Hostel	Varchar	Yes	Yes	The selection of whether the
					applicant wants to sign up for a
					hostel or not.
3.	Transportation	Varchar	Yes	Yes	The selection of whether the
					applicant wants to sign up for a
					hostel or not.

Validations

- The Choose Level is a required field the user must select from the predefined list (P.G., Nursery, L.K.G., U.K.G., One, Two, Three, Four, Five, Six, Seven, Eight, Nine).
- The Hostel is a required field the user must select from the predefined list (Yes, No).
- Transportation is a required field the user must select from the predefined list (Yes, No).

3.2.8. Result

In this section, the admin should be able to create, update, and delete the different files.

Plus Two Result

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Result title	Varchar	Yes	Yes	Displays the title of the file.
2.	Published Date	Date	Yes	Yes	Displays the date, month & year.
3.	Level	Varchar	Yes	Yes	The level of the result is displayed.
3.	File	-	Yes	Yes	The file is to be shared on the display.

- The file title field is mandatory, and it must have a minimum of 5 characters and a maximum of 40 characters.
- The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.
- The level field should have options like Management, Education, Law, and Humanities.
- The admin should create, edit, and delete the event title.
- The admin should be able to categorize the events accordingly.
- The categories for events are: Upcoming & Completed
- The admin should be able to create, edit, and delete the description of the events.
- The admin should be able to prioritize the events and display the events accordingly.

School Level Result

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Result title	Varchar	Yes	Yes	Displays the title of the file.
2.	Published Date	Date	Yes	Yes	Displays the date, month & year.
3.	Level	Varchar	Yes	Yes	The level of the result is displayed.
3.	File	-	Yes	Yes	The file is to be shared on the display.

Validations

- The file title field is mandatory, and it must have a minimum of 5 characters and a maximum of 40 characters.
- The file field should only accept files in PDF format, the maximum file size should be 10 MB and a maximum of 5 files should be accepted.
- The level field should have options like Pre-school (Kindergarten), Primary Level (One Five), Basic Level (Six Eight), and Senior Level (Nine Ten).
- The admin should create, edit, and delete the event title.
- The admin should be able to categorize the events accordingly.
- The categories for events are: Upcoming & Completed
- The admin should be able to create, edit, and delete the description of the events.
- The admin should be able to prioritize the events and display the events accordingly.

3.2.9. Contact

Contact Details

In this section, the admin should be able to create, update, and delete the contact details.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Name	Varchar	Yes	Yes	Name of the contacting person.
2.	Email	Varchar	Yes	Yes	Email address of the contacting person.
3.	Phone Number	integer	Yes	Yes	Displays the contact information
4.	Level	Varchar	Yes	Yes	The level is either plus two or school level.
5.	Message	Varchar	Yes	Yes	The message that the contacting person wants to send.

Validations

- The name field must have a minimum of 4 characters and a maximum of 50 characters.
- The name field must contain valid characters (letters, spaces, and periods for initials).
- The email address should have a minimum of 50 characters, excluding spaces, and must contain "@" and one "." after "@".
- The phone number field must be in the international format, starting with a plus sign (+) followed by the country code and the phone number digits.
- The phone number field should accept the numeric value and special character '+' only.
- The message field must have a minimum of 5 and a maximum of 1000 characters.
- The level field should have two options on the dropdown, that is Plus Two and School.
- All the fields name, email address, phone number, level, and message, are mandatory fields.

Table for recording the contact form data.

Here, the data from the contact form shall be recorded.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Email	Varchar	Yes	No	Display the email address of the
					user.
2.	Phone Number	Integer	Yes	No	Display the phone number of
					the user.
3.	Social Media Link		Yes	No	Display the social media profile
					link of the user if mentioned.

Validations

• The admin should be able to view the email, phone number, and social media link and perform the action accordingly.

3.2.10. Event (Calendar) Management

In this section, the admin should be able to create, update, and delete the event details.

Property Sheet

SN.	Field Name	Data Type	Mandatory?	Enable?	Description
1.	Event Name	Varchar	Yes	Yes	Name of the event.
2.	Event Category	Varchar	Yes	Yes	List of the available event categories to choose from.
3.	Event Date	Date	Yes	Yes	Date of the event
4.	From Time	Time	No	Yes	The time when the event shall begin.
5.	To Time	Time	No	Yes	The time when the event shall end.

6.	All Day	Boolean	No	 The indication that the event will happen all day.
7.	Description	Varchar	No	The description of the event.

Validations

- The event name is a mandatory field that must have a minimum of 4 characters and a maximum of 50 characters.
- The event name field must contain valid characters (letters, numbers, spaces, hyphens).
- The event category is a mandatory field and must be selected from the available list which has a color associated with it, i.e.,

School Holidays: RedExams: Light Green

Clubs and Sports Events: GrayExtra-curricular Programs: Brown

PTA Meetings: Dark BlueEducational Tours: Orange

o Ceremonies: Pink

- The date before the current date should be prevented from selection on the event date field.
- The event date should be in YYYY-MM-DD format and should follow the Nepali calendar.
- Both from time and to time fields should be in HH: MM format along with AM/PM mentioned on them.
- If the "All Day" field has been checked then the "To Time" and "From Time" field shall be disabled and vice versa.
- An event should not conflict with any existing events on the same date and time. There can be events on the same date, but those events should have different times.
- The description is an optional field that can have a maximum of 200 characters and can contain valid characters (letters, numbers, spaces, underscore, hyphens, punctuation, and periods).

3.3. Design Guidelines

3.3.1. Visual Style and Branding

- Modern and minimalistic design with a focus on clean lines and vibrant colors.
- Intuitive and user-friendly navigation with clear calls to action.
- Color Palette
 - a. Use a harmonious color scheme inspired by the school design.
 - b. Consider using vibrant colors for call-to-action buttons and essential elements.
- Typography
 - a. Choose clear and legible fonts for headings and body text.
 - b. Ensure consistency across all pages.
- Icons and Graphics
 - a. Utilize icons and graphics that represent the points mentioned on the website.
 - b. Use custom icons or select from reputable icon libraries.
- Imagery

- a. Display high-quality illustrations.
- b. Include images related to the school, students, and school representatives.

3.3.2. Layout and Composition

- Responsive Design
 - a. Ensure the website works seamlessly on various devices (desktop, tablet, mobile)
 - b. Test responsiveness during development.
 - c. Adaption to different screen sizes and resolutions without sacrificing functionality or design aesthetics.
- Whitespace and Alignment
 - a. Use ample whitespace to enhance readability and visual appeal.
 - b. Align elements consistently across pages.
- Grid System
 - a. Implement a grid-based layout for consistency.
 - b. Organize content logically within the grid.

3.3.3. User Interface Elements

- Navigation Menu
 - a. Keep the navigation simple and intuitive.
 - b. Include links to key sections (Home, About Us, Academics, Our Facilities, Gallery, News & Events, Brochure, Apply Now, Result)
- Call-to-action buttons.
 - a. Design eye-catching buttons.
 - b. Use action-oriented text (e.g., Apply for Admission, Contact Us).
- Forms and Input Fields
 - a. Put the lead form above the fold (visible without scrolling).
 - b. Collect essential information (name, email) without overwhelming the users.
- Animations and micro-interactions
 - a. Add subtle animations to enhance user engagement (e.g., button hover effects, loading spinners)
 - b. Use micro-interactions for feedback (e.g., form validation, button clicks)

3.3.4. Content Strategy

- Headlines and Taglines
 - a. Craft benefit-focused headlines that resonate with users.
 - b. User concise taglines to convey the unique selling points of the platform.
- Compelling Copy
 - a. Write persuasive copy that highlights features, benefits, and security.
 - b. Address pain points and offer solutions.
- Social Proof
 - a. Include testimonials, case studies, or user reviews.
 - b. Highlight the successful events and academic sessions of the school.

3.3.5. Performance and Optimization

- Page Load Speed
 - a. Optimize images and scripts to ensure fast loading times.

- b. Compress images without compromising quality.
- SEO Optimization
 - a. Optimize meta tags, headings, and URLs for search engines.
 - b. Use relevant keywords related to messaging and collaboration.

3.3.6. Accessibility

- Alt Text for Images
 - a. Provide descriptive alt text for images to assist users with visual impairments.
- Keyboard Navigation
 - a. Ensure all interactive elements are accessible via keyboard navigation.
- Contrast Ratio
 - a. Maintain sufficient contrast between text and background colors.

3.4. Technological Requirements

3.4.1. Technology Stack

- Front-end: HTML5, CSS, JavaScript (Vue.js or React)
- Back-end: Node.js
- Content Management System (CMS): Stripe
- Database: PostgreSQL
- Hosting: AWS

3.4.2. Integration with APIs

• Integration with analytics tools to track website traffic and user behavior.

3.4.3. SEO Optimization

- Optimize meta tags, keywords, and URLs.
- Implement schema markup for rich snippets.
- Implement sitemap.

4. Non-Functional Requirements

4.1. Usability

- The User Interface (UI) should be user-friendly, and the user does not need extra help or support to use the site.
- The page should be smooth and the updates or any other features should be instantly reflected.
- The buffering time should not be more than 0.10 seconds.

4.2. Reliability

- The page should be reliable, and the uptime and downtime should be proper.
- Any updates should not affect or cause any trouble.
- In case of network breakdown or any other technical issue the user should be able to continue browsing the page from the earlier state.

4.3. Performance

- The page should provide a smooth and responsive user experience.
- Redirection should be smooth and proper.
- The GIFs, stickers, or any sample files should load and display the information properly.
- The performance should be smooth and responsive during peak hours or when many users are using the site.

4.4. Compatibility

- The website should be easily accessible and available on all kinds of devices i.e., high to low end devices.
- The website surfing speed should not differ among different devices.

4.5. Security

- The website should not leak or lead to misuse of the user data.
- The website implements SSL encryption to secure data transmission.
- The website should be protected against security vulnerabilities such as SQL injection and crosssite scripting (XSS).

4.6. Scalability

- The website architecture should be capable of handling increasing traffic and content updates without performance degradation.
- There should be use of scalable hosting solutions to accommodate future growth.

5. Assumptions and Constraints

5.1 Assumptions

- The users are eager to utilize the website and have access to the internet.
- The website will abide by the ethical and legal norms of the countries in which it conducts business.
- The design and interface of the website will be simple to use and intuitive.
- The website's performance and security features will be of the highest caliber and dependability.
- The website will be equipped with sufficient resources, staff, and technological expertise to support its development and operation.
- Stakeholders will be able to provide regular authorizations and input.

5.2 Constraints

- The availability and collaboration of the stakeholders, users, and development team will determine how the website is developed.
- The dependence on third-party providers to integrate data.
- Feedback and recommendations for the features and user experience of the website will be provided by the end users if they are cooperative and available.

- Sufficient capital, assets, and workforce are necessary for the creation, upkeep, and functioning
 of the website, including IT infrastructure, workforce, and continuous assistance.
- The budget and schedule for developing the website will be subject to change due to unexpected events.
- The system needs to abide by all applicable laws, rules, and industry specifications.

6. System Constraints

6.1 Hardware and Software Requirements

Hardware: Servers with sufficient capacity to handle peak loads.

Software: Next.js (Version 14.x), Flutter (Dart) (Version 3.x), Node.js (Version 20.x), TypeScript (Version 5.x), PostgreSQL (Version 16.x)

6.2 Development and Deployment Constraints

- Integration with the current IT framework.
- There must be little interruption to ongoing services during deployment.

7. Risks and Dependencies

7.1 Risks and Mitigation Strategies

Risks

- Possible technical difficulties including compatibility problems, software flaws, or infrastructure malfunctions might cause delays in the website's development and deployment.
- The project schedule might be delayed by unexpected technological difficulties.
- The project's budget can go over because of demands for more features.
- The system could not adhere to legal standards, which might result in penalties, legal action, and reputational harm.

Mitigation Strategies

- Regular security audits and updates to anticipate issues and flaws.
- Proper planning and scheduling of tasks.
- Clear communication with stakeholders regarding the constraints and unplanned events.
- Set out clear requirements with room for additional improvements.
- Research legal requirements and adhere to them.

7.2 Dependencies

- Dependence on third-party APIs and services for certain functionalities.
- Reliance on cloud service providers for hosting.
- Sufficient resources necessary for the creation, upkeep, and functioning of the website, including IT infrastructure, workforce, and continuous assistance.

- The budget and schedule for developing the website.
- All applicable laws, rules, and industry specifications.