Web Systems and Technologies 2 Laboratory IT135-8L

Project Documentation

MindHaven School Inc Website

Submitted by: Group Jakarta

Babar, Darryll
Ong, Elijah Karlviken
Tupas, Jan Edgar
Viera, Rafaello Jose

Submitted to:

Sir John Christian Diamante

Introduction

MindHaven School Inc is a play-based non-traditional school based in Roxas City. It is a small school with 30+ years of experience that caters to children with special needs. Unlike traditional schools, MindHaven creates personalized programs for each child and has received recognition from Special Education Network & Inclusion Association (SENIA), United Nations Educational, Scientific and Cultural Organization (UNESCO), and IFIP. The school advocates for an inclusive education by catering to the unique needs of each child.

Since 1997, the school has advocated, practiced, and implemented its Inclusion Program. Unlike a standardized and one-size-fits-all program, the school provides a personalized program for each child to meet their unique needs and ensure that quality education is truly provided. These programs could be a school-based program with teachers and staff, community-based program with Government and Non-government Organizations, or home-based program with parents, guardians, and caregivers. The school's program ensures that the students are healthy, supported, challenged, engaged, and safe at all times.

Despite the recognitions achieved by MindHaven Inc, the school receives little attention and struggles to connect with the community. The school is struggling to increase its advocacy efforts in the area of inclusive education. Due to the limitations in financial resources, the school lacks an IT-based profile, which limits their exposure to audiences in the present highly technological environment. As a result, the school is frequently overlooked by communities that prefer better-known schools. In the present, the school only utilizes Facebook as their technological platform for providing information about the school, their advocacy, and updates and announcements on events, achievements, and upcoming activities.

Problem Statement and Objectives

MindHaven School Inc. and their advocacy for an inclusive school, particularly for children with special needs, are overlooked and receive little attention due to the lack of publicity. Furthermore, the admissions process of the school remains traditional, requiring parents, guardians, and students to physically visit the school grounds, as well as manual admission processing. MindHaven Inc must keep up with current technological trends to avoid falling behind and to be recognized as a relevant and important school.

With the aforementioned problem, the main objective of the group is to create an official school website for MindHaven Inc. The school website will serve as an official web platform for the school that provides valuable information and resources to students, parents, guardians, and the entire school community. It will serve as a primary communication channel between the school and its community, as well as an information hub that presents centralized information about the school freely viewable by the school community and the public. Furthermore, it will provide an admission system that will simplify and improve the student admission process for the school. Specifically, the group intends to accomplish the following:

- Increase public awareness and recognition of MindHaven School Inc.'s advocacy for inclusive education through a website that showcases the mission, vision, values, and commitment to inclusivity of the school.
- 2. Enhance communication and engagement among the school community by providing up-to-date information and interactive features on the website.
- 3. Streamline the admissions process by implementing an online system for prospective students to access information, submit applications, and track their status, and for the school to manage admission submissions.

UN SDGs Addressed

The project is a website with an admission system to enhance the technological profile and public reach of MindHaven School Inc and the admission process of the school. Specifically, the proposed project addresses the United Nation Sustainable Development # 4 which is to Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. By emphasizing the school's advocacy for inclusive education for children with special needs as well as promoting the school through information about the operation of the school and its active community, the website raises awareness and promotes the value of inclusivity in education. It fosters a supportive learning environment by allowing students, parents, teachers, guardians, and the community to engage and communicate through interactive features and easily accessible information. Furthermore, by streamlining the admissions process and providing online resources, the website eliminates barriers to access and ensures that all people, including those with special needs, have equal opportunities to pursue education and lifelong learning.

Scope of the Project

With the aforementioned, the project focuses on creating a school website with an admission system for MindHaven School Inc. The website will allow the school to expand its reach and will cater to the community of the school and the public. It will include the following main pages: Home, Announcement, Admission, About the School, Gallery, and Contact. Furthermore, the project integrates an admission system to enhance and streamline the admission process of the school and will cater to prospective students and their parents or guardians, and the admissions team of the school. An administrator page will also be created to easily maintain and facilitate changes on the website. The group will be responsible for the development of the website, which includes the design of the website, the front-end and back-end development of the website, the

testing processes for the website, and the final documentation of the entire project. The React.js framework will be used for the development of the website and database functionalities will be implemented with Firebase.

Functional and Non-functional Requirements

Functional Requirements

NAME	DESCRIPTION
Navigation Bar	The navigation bar shall provide access to all
	public pages of the website. It shall display
	the logo and name of the school. It shall
	display the title of all public pages which
	encompass the following:
	Home Page
	 Announcement Page
	 Admission Page
	 About the School Page
	Contact Page
Admission Management Dashboard / Reviewer Dashboard	The Admission Management Dashboard shall serve as the platform for the admission team of the school in managing all applications. It shall require a login to authenticate the user before granting access to the dashboard. The dashboard allows the admission reviewer access to the following: • View all pending applications • Review contents of applications • Accept/Reject applications • Send email to applicant for comments or issues
	Update status of applications for tracking
User Dashboard	The User Dashboard shall serve as the
	platform for the applicants in viewing the
	status of their application. The dashboard
	provides the application details submitted by
	the applicant. It further provides tracking on
	the status of the application of the applicant,

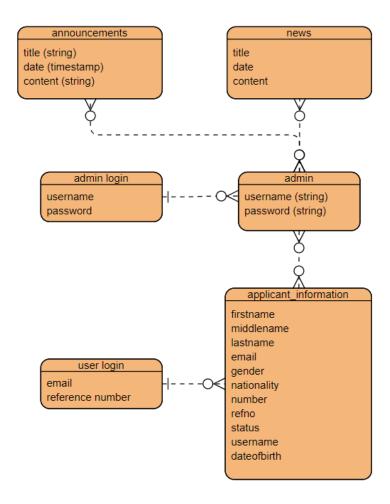
	specifying if it is still pending, approved, or
	denied.
Add New Admission Application	Upon completion of the application form and
	requirements from the applicant, the
	requirements and information are published to
	the database. The application will be reflected
	on the reviewer dashboard for reviewing.
Approve Admission Application	On the reviewer dashboard, the reviewer can
	approve the admission application being
	reviewed. This will update the state of the
	application to approved. The status will also
	be updated on the tracker.
Deny Admission Application	On the reviewer dashboard, the reviewer can
	deny the admission application being
	reviewed. This will update the state of the
	application to denied. The status will also be
	updated on the tracker.
Mark Admission Application as Pending	On the reviewer dashboard, the reviewer can
The state of the s	mark the admission application being
	reviewed as pending in cases where further
	time for review is required. This will update
	the state of the application to pending. The
	status will also be updated on the tracker.
Delete an Application	On the reviewer dashboard, the reviewer can
Defect an Application	delete an existing application. The application
	data will be removed from the database and
	changes will be reflected in the website.
Add Announcement	On the admin page, the admin can use the
Add Amiouncement	feature to add new announcements to the
	database. The new additions will be reflected
	on the website.
Add News/Events	
Add News/Events	On the admin page, the admin can use the feature to add new News/Events to the
	database. The new additions will be reflected
TT 1 / A	on the website.
Update Announcement	On the admin page, the admin can use the
	feature to update existing announcements.
	This will publish the changes to the database
	and will be reflected on the website.

Update News/Events	On the admin page, the admin can use the		
	feature to update existing news/events. This		
	will publish the changes to the database and		
	will be reflected on the website.		
Delete Announcement	On the admin page, the admin can use the		
	feature to delete or remove		
	announcements/news/events in the database.		
	The changes will be reflected on the website.		
Delete News/Events	On the admin page, the admin can use the		
	feature to delete or remove news/events in the		
	database. The changes will be reflected on the		
	website.		

Non-functional Requirements

NAME	DESCRIPTION
Usability	The website should have easy navigation, an
	organized layout, intuitive design elements,
	and consistent branding. Users should be able
	to easily find the information they need,
	complete tasks, including submission of an
	application or contacting the school, and
	navigate between pages. The usability of the
	website shall be validated using the System
D.15.1.194	Usability Scale (SUS).
Reliability	The website should be stable and reliable, with little to no downtime or disruption.
Availability	The website should be available 24 hours a
Availability	
	day and 7 days a week, except during
	scheduled maintenance windows.
Security	The website should be protected from
	unauthorized access and safeguard the data of
	all users. Login forms allow the
	authentication of users. The contents of the
	database should only be modified by
	authenticated users.
Compatibility	The website should be compatible in both
	desktop and mobile devices and with a range
	of browsers.

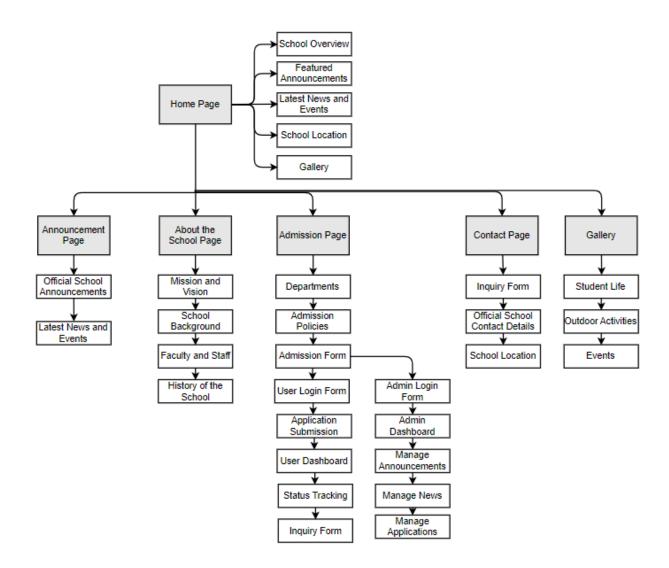
Database Design – Firestore Architecture



The Entity Relationship Diagram above describes the firestore database structure for the project. The database focuses on the storage of data for the application of the student, the admin, announcements provided by the school, and news provided by the school, since these are the main entities make up the functionalities of the admission system, as well as the operations of the website through the administrator. A login form is set for authenticating the applicant when logging in on the application system, and the admin when logging in on the administrator dashboard for modifying or managing the website or the admission system. The application of the student is taken into account to implement the status tracking feature of the system.

Features of the System

Sitemap



The figure above shows the sitemap for the proposed website. It shows the overview of the structure of the website. Upon accessing the website, users are shown the Home Page. The contents of the home page include a school overview, featured announcements, latest news and events, school location, and gallery. The different pages of the website are accessible through the navigation bar on the home page. Users may access the announcement page. The contents of the

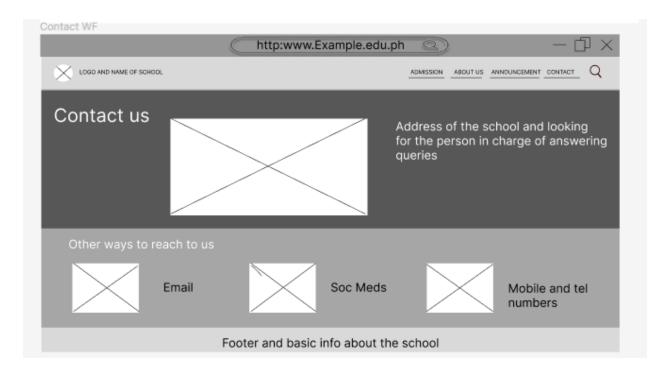
page include the official school announcements and latest news and events. Users may access the about the school page. The contents of the page include the official mission and vision of the school, school background, description of the faculty and staff of the school, and the history of the school. Users may also access the contact page. The page includes the inquiry form that users can fill up, details on the official school telephone number and email, and the social media links of the school, which in this case is only Facebook. For interested students, users may access the admission page. The admission page shows the departments of the school, the admission policies, and the admission forms to be filled by interested users. The admission page also includes a login form for student applicants. Upon logging in, the student is shown the application details submitted, the status of the application, and an inquiry form. The admission page also includes a login form for admin for managing the website and the application submissions. Upon login, the admin is shown the admin dashboard where the admin can manage announcements, manage news, or manage application. In manage announcements, the admin can show, modify, delete, and add new announcements. In manage news, the admin can show, modify, delete, and create new news or events articles. In the manage applications, the admin can access student applications and update the status of applications after review. The Gallery page shows a collection of images from the school regarding student life, outdoor activities, and school events.

Wireframes

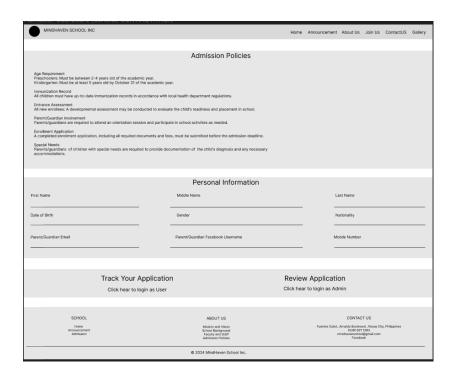
Home Page



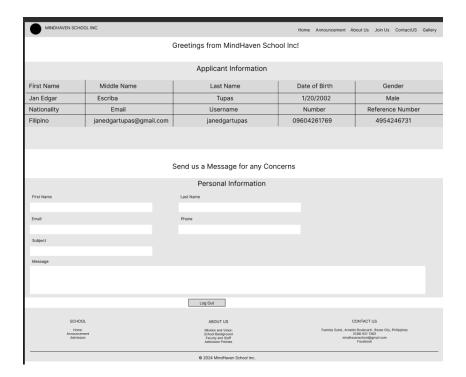
Contacts Page



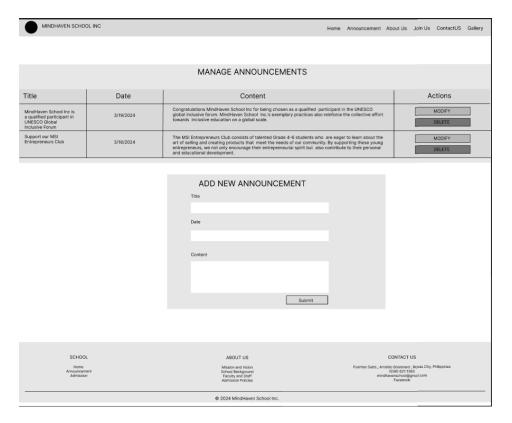
Admission Page

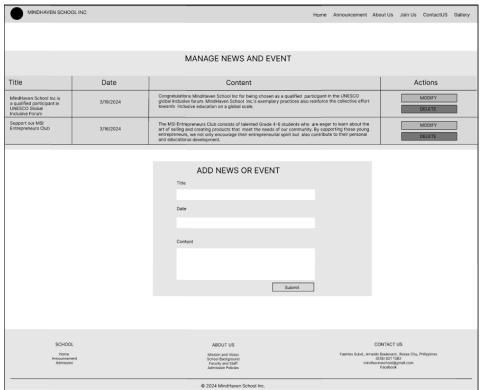


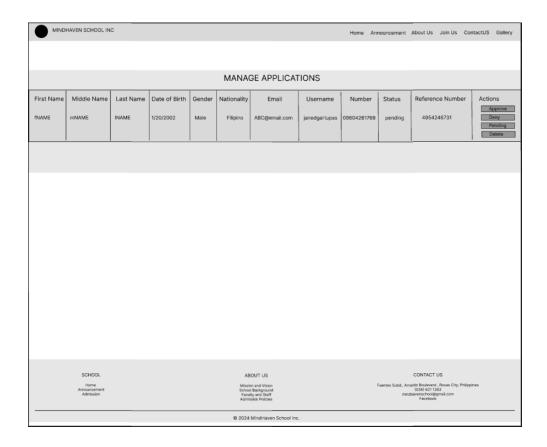
Admission Dashboard - User



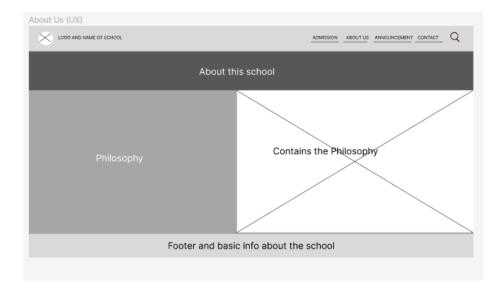
Admin Dashboard

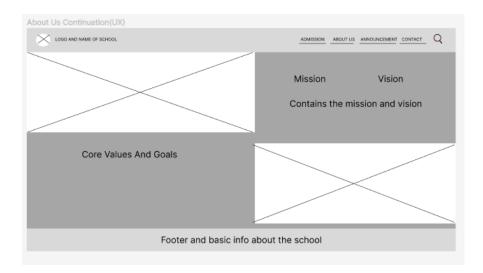




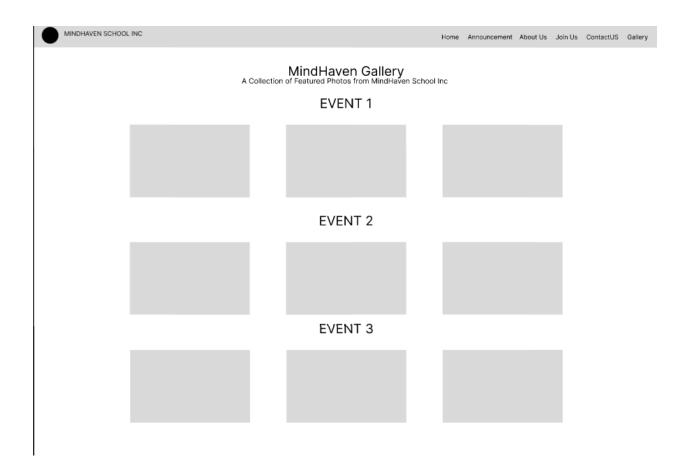


About us Page





Gallery



Website Link: https://mindhaven-web.vercel.app/

Test Results

Test Scenario	Navigation Bar			
Step#	Step Details	Expected Results	Actual Results	Status
1	Click Home	Website should navigate to home page.	As expected	Pass
2	Click Announcement	Website should navigate to announcement page.	As expected	Pass
3	Click About Us	Website should navigate to about the school page.	As expected	Pass
4	Click Join Us	Website should navigate to admission page.	As expected	Pass
5	Click Contact Us	Website should navigate to contact page.	As expected	Pass
6	Click Gallery	Website should navigate to gallery page.	As expected	Pass

Test Scenario	Footer			
Step #	Step Details	Expected Results	Actual Results	Status
1	Click Home	Website should	As expected	Pass
		navigate to home		
		page.		
2	Click	Website should	As expected	Pass
	Announcement	navigate to		
		announcement		
		page.		
3	Click Admission	Website should	As expected	Pass
		navigate to		
		admission page.		
5	Click Mission &	Website should	As expected	Pass
	Vision	navigate to about		
		the school page.		

6	Click School	Website should	As expected	Pass
	Background	navigate to about		
		the school page.		
7	Click Faculty	Website should	As expected	Pass
	and Staff	navigate to about		
		the school page.		
8	Click School	Website should	As expected	Pass
	Address	navigate to the		
		contact page.		
9	Click School	Website should	As expected	Pass
	Number	navigate to the		
		contact page.		
10	Click School	Website should	As expected	Pass
	Email	navigate to the		
		contact page.		
11	Click Facebook	Website should	As expected	Pass
		navigate to the	_	
		facebook page of		
		the school.		

Test Scenario	Home Page Functionality			
Step #	Step Details	Expected Results	Actual Results	Status
1	In the featured	Website should	As expected	Pass
	announcements	navigate to		
	card, click read	announcement		
	more	page.		
2	In the latest	Website should	As expected	Pass
	news and events	navigate to		
	card, click read	announcement		
	more	page.		
3	In the gallery,	Full photo	As expected	Pass
	click a photo	should be shown		
		on the screen.		

Test Scenario	Announcement Page Functionality			
Step #	Step Details	Expected Results	Actual Results	Status
1	Navigate to	School	As expected	Pass
	announcement	announcements		
	page and view	from the		
	official school	database should		
	announcement	be reflected in		
	card	the card.		

2	View latest news	Latest news and	As expected	Pass
	and events card	events from the		
		database should		
		be reflected in		
		the card.		

Test Scenario	Admission Form Functionality			
Step #	Step Details	Expected Results	Actual Results	Status
1	With the completed form, click submit	Confirmation message should show.	As expected	Pass
2	From confirmation message, click Ok	Acknowledgement message saying submission is successful should show.	As expected	Pass
2	From confirmation message, click Cancel	Return to application form.	As expected	Pass

Test Scenario	User Login and Dashboard			
Step #	Step Details	Expected Results	Actual Results	Status
1	In login card,	Website should	As expected	Pass
	click login as	navigate to user		
	user	login form.		
2	Input applicant	Email and	As expected	Pass
	email and	reference		
	reference	number should		
	number	be verified.		
3	Incorrect	Show message	As expected	Pass
	applicant email	stating incorrect		
	and reference	email or		
	number input	reference		
		number.		
3	Correct	Website should	As expected	Pass
	application	navigate to user		
	email and	dashboard.		
	reference	Applicant		
	number input	information		
		submission and		
		application		

		status should be shown		
4	Click logout	Website should navigate back to home page.	As expected	Pass

Test Scenario	Admin login and Dashboard				
Step #	Step Details	Expected Results	Actual Results	Status	
1	In login card, click login as admin	Website should navigate to admin login form.	As expected	Pass	
2	Input admin username and password	Username and password should be verified.	As expected	Pass	
3	Incorrect admin username and password input	Show message stating incorrect username or password.	As expected	Pass	
3	Correct admin username and password input	Website should navigate to admin dashboard.	As expected	Pass	
4	Click logout	Website should navigate back to home page.	As expected	Pass	

Test Scenario	Admin Dashboard – Modify Announcement			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin	Website should	As expected	Pass
	dashboard, click	navigate to		
	manage	manage		
	announcements	announcements		
		page.		
		Announcement		
		table with title,		
		date, and content		
		information		
		should be		
		shown.		

2	From an announcement row, click modify	Form with title, date, and content fields should appear. Fields should contain title, date, and content of selected announcement.	As expected	Pass
3	Click Cancel	Form should disappear and no changes should be made.	As expected	Pass
3	Click Submit	Confirmation message should show.	As expected	Pass
4	Click Cancel	No changes should be made.	As expected	Pass
4	Click Ok	Announcement details should be updated in the database and reflected in announcement table and announcement cards.	As expected	Pass

Test Scenario	Admin Dashboard – Delete Announcement			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin	Website should	As expected	Pass
	dashboard, click	navigate to		
	manage	manage		
	announcements	announcements		
		page.		
		Announcement		
		table with title,		
		date, and content		
		information		
		should be		
		shown.		

2	From an announcement row, click delete	Confirmation message for deleting the selected announcement should show	As expected	Pass
3	Click Cancel	Message should disappear and no changes should be made.	As expected	Pass
3	Click Ok	Announcement should be deleted from database and changes should be reflected in the announcement table and announcement cards.	As expected	Pass

Test Scenario	Admin Dashboard – Create New Announcement			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin	Website should	As expected	Pass
	dashboard, click	navigate to		
	manage	manage		
	announcements	announcements		
		page.		
		Announcement		
		table with title,		
		date, and content		
		information		
		should be		
		shown.		
2	In add new	Confirmation	As expected	Pass
	announcement	message for		
	form, fill in	submitting the		
	fields. Then	announcement		
	click submit	entry should		
		show		
3	Click Cancel	Message should	As expected	Pass
		disappear and no		
		changes should		
		be made.		

3	Click Ok	Submitted	As expected	Pass
		announcement		
		document should		
		be added to the		
		database and		
		changes should		
		be reflected in		
		the		
		announcement		
		table and		
		announcement		
		cards.		

Test Scenario	Admin Dashboard – Modify News and Events			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin	Website should	As expected	Pass
	dashboard, click	navigate to		
	manage news	manage news		
	and events	and events page.		
		News and events		
		table with title,		
		date, and content		
		information		
		should be		
		shown.		
2	From a row,	Form with title,	As expected	Pass
	click modify	date, and content		
		fields should		
		appear. Fields		
		should contain		
		title, date, and		
		content of		
		selected		
		news/event		
2	Clials Canaal	article.	A	Daga
3	Click Cancel	Form should	As expected	Pass
		disappear and no		
		changes should be made.		
3	Clials Cylemit		A a avmostad	Daga
3	Click Submit	Confirmation	As expected	Pass
		message should		
		show.		

4	Click Cancel	No changes should be made.	As expected	Pass
4	Click Submit	News/event article details should be updated in the database and reflected in news and events table and news and events cards.	As expected	Pass

Test Scenario	t Scenario Admin Dashboard – Delete News/Event			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin dashboard, click manage news and events	Website should navigate to manage news and events page. News and events table with title, date, and content information should be shown.	As expected	Pass
2	From a row, click delete	Confirmation message for deleting the selected news/event article should show	As expected	Pass
3	Click Cancel	Message should disappear and no changes should be made.	As expected	Pass
3	Click Ok	Announcement should be deleted from database and changes should be reflected in the news and events table and	As expected	Pass

	news and events	
	cards.	

Test Scenario	Admin Dashboard – Create New News/Event			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin dashboard, click manage news and events	Website should navigate to manage news and events page. News and events table with title, date, and content information should be shown.	As expected	Pass
2	In add news or new event form, fill in fields. Then click submit	Confirmation message for submitting the entry should show	As expected	Pass
3	Click Cancel	Message should disappear and no changes should be made.	As expected	Pass
3	Click Ok	Submitted news/event document should be added to the database and changes should be reflected in the news and events table and news and events cards.	As expected	Pass

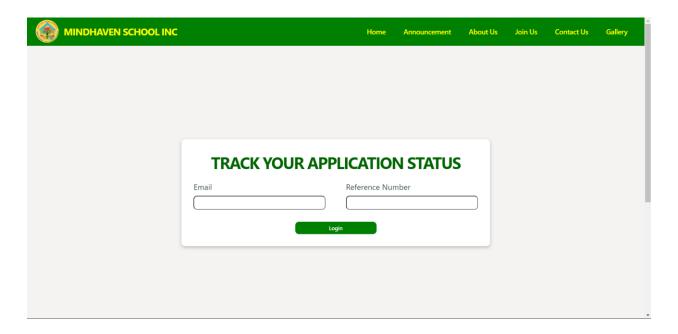
Test Scenario	Admin Dashboard – Manage Applications			
Step #	Step Details	Expected Results	Actual Results	Status
1	In admin dashboard, click	Website should navigate to	As expected	Pass
	manage applications	manage		

		applications		
		page.		
2	Click Pending button	Applications table containing applications with pending status should show.	As expected	Pass
2	Click Approved button	Applications table containing applications with approved status should show.	As expected	Pass
2	Click Denied button	Applications table containing applications with denied status should show.	As expected	Pass
3	From a row, click Approve	Status of the selected application should be updated to approved in the database. Update should be reflected in the website.	As expected	Pass
4	From a row, click Deny	Status of the selected application should be updated to denied in the database. Update should be reflected in the website.	As expected	Pass
5	From a row, click Pending	Status of the selected application should be updated to pending in the database. Update should be	As expected	Pass

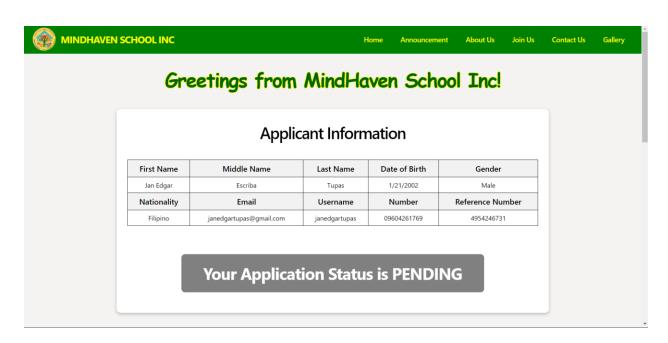
		reflected in the website.		
6	From a row, click Delete	Selected application submission should be deleted from the database and removed from the applications table.	As expected	Pass

Functions of the System (Screenshots)

User Login

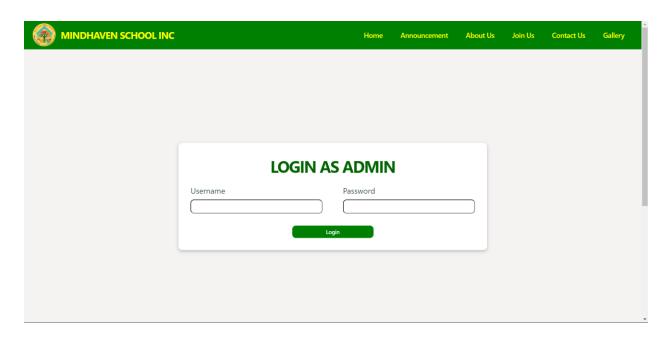


User Dashboard

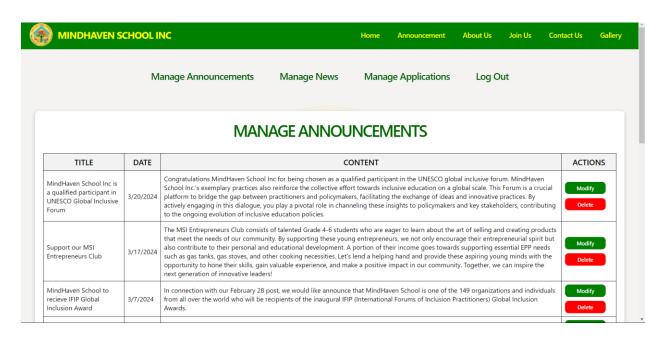




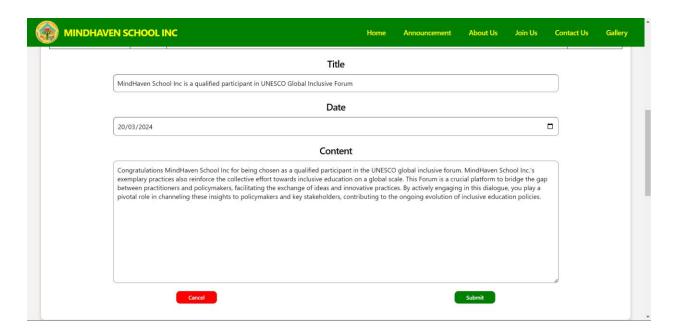
Admin Login



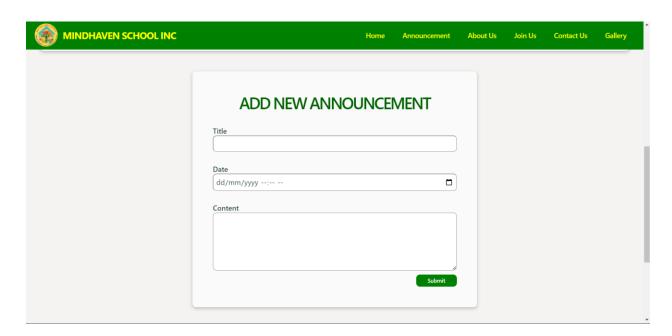
Admin Dashboard - Manage Announcements



Manage Announcements - Modify



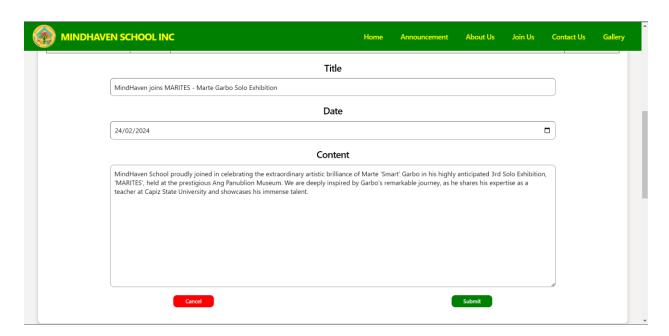
Manage Announcements - Add



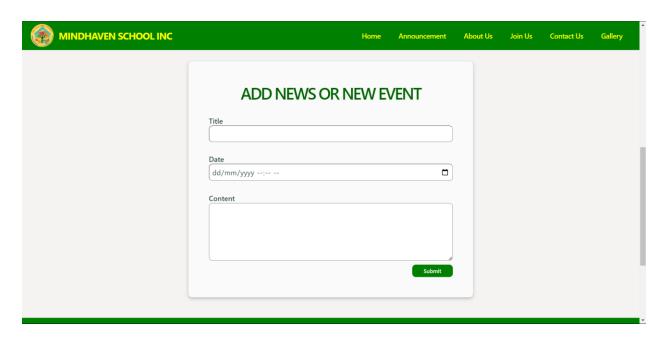
Admin Dashboard - Manage News and Events



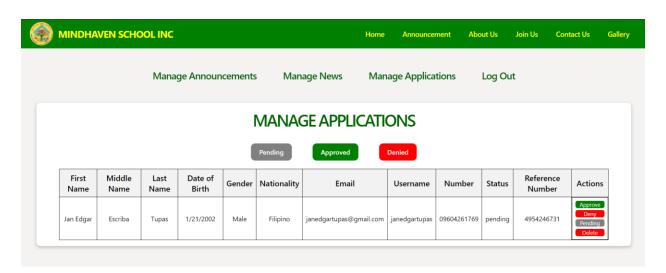
Manage News and Events - Modify



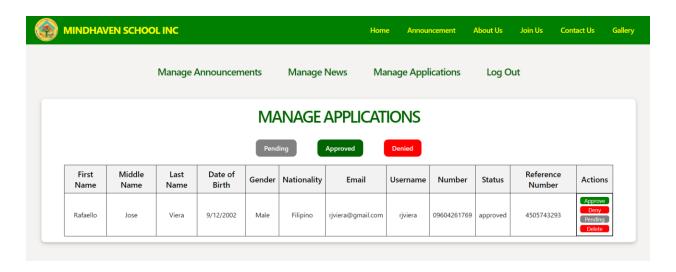
Manage News and Events - Add



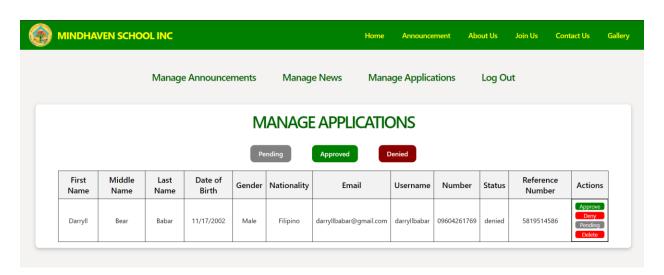
Manage Applications - Pending



Manage Applications - Approved



Manage Applications - Denied



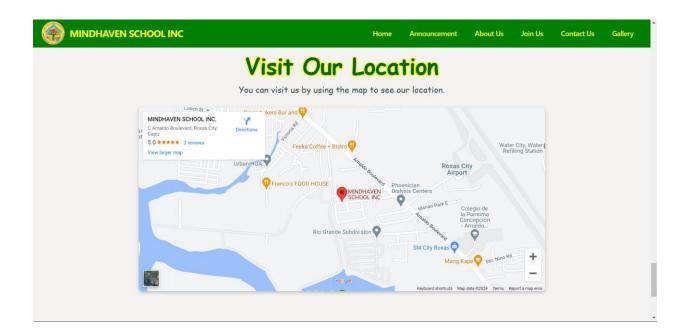
Home Page





Support our MSI Entrepreneurs Club





Announcements Page



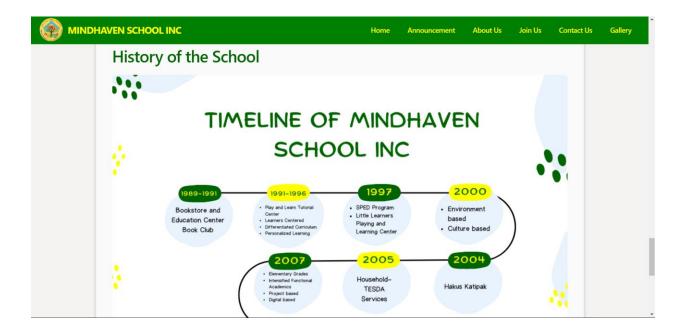


About the School Page



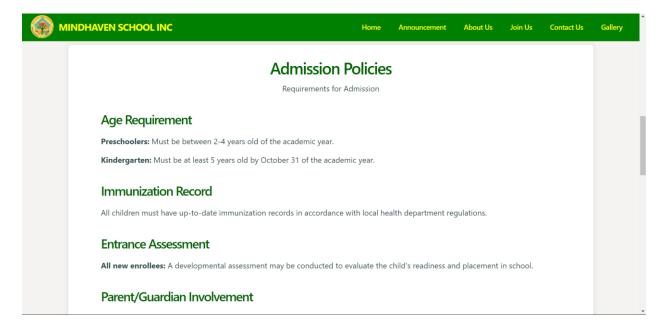


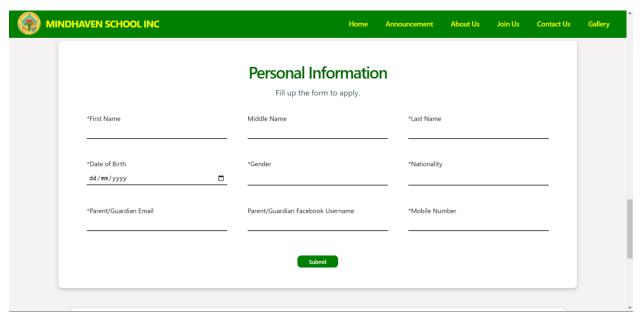


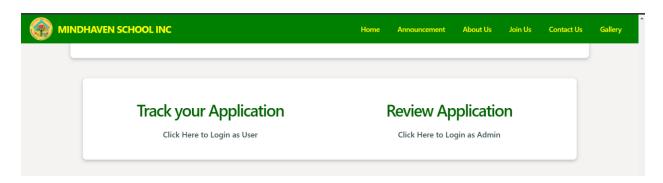


Admission Page



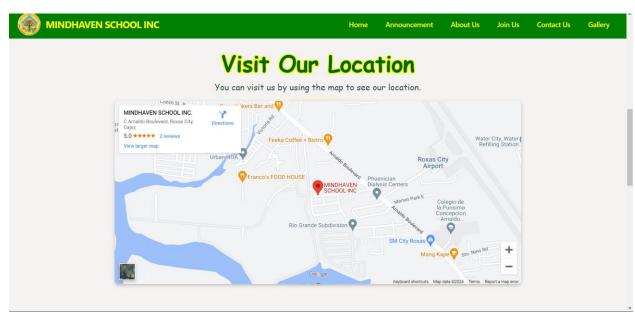






Contact Page







Gallery Page





