



## Web-Based Centralized Notice Board Platform

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May 30, 2023

## Research Paper

# Web-Based Centralized Notice Board Platform

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**Abstract:** A web-based online notice board with event management is a digital platform that enables users to create, post, and manage notices and events in real time. The platform allows users to publish information about events, such as conferences, workshops, and social gatherings, on the notice board. Users can also manage the events by setting up schedules, booking venues, and sending out invitations to attendees. Users may quickly create and manage their events on the site because of its user-friendly design. A web-based system is accessible from anywhere, and users can access it on various devices, including desktops, laptops, tablets, and smartphones. Overall, the web-based online notice board with event management is an efficient tool for organizing events and disseminating information to a broad audience. The platform enables real-time updates, ensuring that users have access to the most current information. Event organizers can make changes to the event schedule, venue, or other details, and attendees will receive automatic notifications of any updates.

**Keywords:** Real-time updates • User-friendly interface • Mobile responsiveness • Customization • Accessibility • Information Sharing • Filtering Options • Notification Alerts

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## 1. Introduction

A Web-Based Centralized Notice Board Platform is a digital communication system designed to provide a centralized location for sharing announcements, news, and other important information with a community or organization. It allows users to create, post, and manage various types of content, such as text, images, videos, and documents, and share them with specific groups or individuals. All community or organization members of the community or organization may easily access and use this platform because it is usable from any device with an internet connection. Additionally, it offers various features like notification alerts, filtering options, and search functionality to ensure that users can easily find the information they need. A Web-Based Centralized Notice Board Platform provides a modern, efficient, and effective way to share information, enhance communication, and engage with a targeted audience.

### 1.1 Convenient and Easy to Use

This platform is comfortable and simple to use for all members of

the community or organization since it can be accessed from any device with an internet connection. Users may keep current on news and announcements by accessing the platform from their desktop PCs, laptops, cellphones, or tablets. The platform has a number of benefits over conventional event management and communication techniques, including real-time updates and notifications, time and resource savings, and search capabilities.

### 1.2 Event Management

This platform is especially useful for organizations and communities that need to manage events and share information with attendees and stakeholders. It can be used for a variety of purposes, such as promoting events, sharing updates and announcements, and communicating with attendees or event staff. Additionally, it allows event organizers to manage event registrations, track attendance, and send reminders and notifications.

This platform offers several advantages over traditional methods of event management and communication. It allows event organizers to streamline the event planning process and save time and resources.

## 2. Related Work

"Designing a Digital Notice Board for Education: A Study of Students' Preferences and Perception," by Agnieszka Paluszek and Łukasz Tomczyk, published in *Computers & Education* (2021). This article presents a study of students' preferences and perceptions regarding a web-based centralized notice board designed for use in education.

"A Web-Based Notice Board for Collaborative Learning," by Andriy Kovalchuk and Anna Pylypchuk, published in *International Journal of Emerging Technologies in Learning* (2021). This article describes the design and implementation of a web-based notice board for collaborative learning.

"Towards a More Inclusive Notice Board: A Case Study of Developing a Centralized Online Notice Board for a University," by Ly Minh Tu, Nguyen Thi Thu Huong, and Tran Thi Ngoc Mai, published in the *Journal of Educational Technology Development and Exchange* (2020). This article describes the development of a centralized online notice board for a university, with a focus on making it more inclusive for all users.

"Designing and Implementing a Web-Based Notice Board for Disaster Management," by Phattaranant Boonkham and Chalermek Intanagonwiwat, published in the *Journal of Information Technology Case and Application Research* (2020). The design and execution of a web-based notice board for disaster management are presented in this paper, with an emphasis on its efficacy and usability.

"Implementation of a Web-Based Notice Board for a Hospital Emergency Department," by Ka-Ling Cheung, Yu-Cheong Chiu, and Kwan-Hoong Ng, published in the *Journal of Medical Systems* (2020). This article describes the implementation of a web-based notice board for a hospital emergency department, with a focus on its impact on communication and patient care.

"Design and Implementation of a Web-Based Notice Board System for a College," by Rajitha Kanchanapalli and Bhemanna Khandre, published in the *Journal of Engineering Education Transformations* (2020). With an emphasis on usability and efficacy, this article describes the design and deployment of a web-based notice board system for a college.

"Web-Based Notice Board System for Campus Management," by G. Gokul and P. Manoj Kumar, published in the *International Journal of Engineering Research and Technology* (2019). This article describes the design and implementation of a web-based notice board system for campus management, with a focus on its features and benefits.

"Development of a Web-Based Notice Board for a University," by Yonatan Bisk and Hadas Lewy, published in the *Journal of Information Technology Education: Research* (2019). This article presents the development of a web-based notice board for a university, with a focus on its usability and effectiveness.

"Web-Based Centralized Notice Board System for Educational Institutions," by "International Journal of Engineering and Advanced Technology" (2018). This article describes the design and implementation of a web-based centralized notice

board system for educational institutions, with a focus on its features and benefits.

"Web-Based Notice Board System for Hostels," by S. Chellammal and S. Sathya, published in the *International Journal of Emerging Technology and Advanced Engineering* (2018). This article presents the design and implementation of a web-based notice board system for hostels, with a focus on its features and benefits.

## 3. Theory

An online e-notice board website with event management is a digital platform that allows users to post and view notices or announcements online, with a specific focus on events. The website serves as a centralized hub for event-related information, updates, and news related to a specific community or organization.

Users may create, administer, and advertise events online thanks to the website's event management feature. This covers functions like ticketing, scheduling, and reminders for events. Users may access all pertinent data and resources in one location by integrating event management with the e-notice board website, expediting the event preparation procedure.

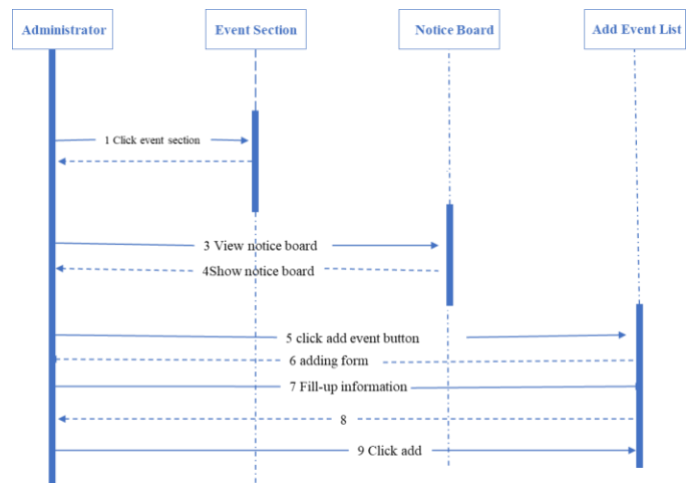


Figure 1. E-Notice Board Diagram

- The website serves as a centralized hub for event-related information, updates, and news related to a specific community or organization.
- The event management component of the website allows users to create, manage, and promote events online, streamlining the event planning process.
- Features of the event management component can include event registration, ticketing, scheduling, and reminders.
- The website should be designed with considerations for usability, functionality, and security, including features such as search functionality and notifications.

- An online e-notice board website with event management can improve communication and information-sharing within a community or organization, while also providing a streamlined platform for event planning and promotion.

The design and implementation of an online e-notice board website with event management requires careful consideration of factors such as usability, functionality, and security. The website should include features like search functionality and alerts, be simple to browse, and have a pleasing aesthetic appearance. For the purpose of safeguarding user data and preventing unauthorized access, it should also be secure.

In calculating the success of the website and its event management component, metrics such as user engagement, event attendance, and revenue generated can be tracked and analyzed. This data can be used to make improvements to the website and its features, as well as to inform future event planning.

#### 4. Experimental Method/Procedure/Design

The procedure for creating and testing a web-based online notice board with event management involves defining goals and objectives, determining user requirements, designing and developing the website, testing and validation, and ongoing deployment and maintenance. The proposed system for a web-based online notice board with event management would provide a comprehensive platform for managing events and disseminating information to a specific audience. The system would be user-friendly, secure, and feature-rich, providing a valuable tool for organizations and institutions to communicate with their stakeholders.

##### 4.1 Analysis of Proposed system

- User authentication and access control: Users must register and log in to access the system's features, with access control measures implemented to ensure that users can only view and modify content that they are authorized to access.
- Notice board: The system includes a notice board where users can view and search for notices and announcements. Notices can be categorized by topic or department to make it easier for users to find relevant information.
- Notice creation and management: Users can create and post new notices, with details such as title, description, and category. They can also edit or delete their own notices as needed.
- Event creation and management: Users can create and manage events, with details such as date, time, location, and description. Users can register for events and receive notifications and reminders.

Website administrators can track metrics such as user engagement, event attendance, and revenue generated. Reports can be generated to provide insights into website performance and user behavior. Security measures are implemented to protect user data and ensure website integrity.

This includes measures such as encryption, firewalls, and regular security audits.

##### 4.2 Analysis of High-level Representation

###### User authentication and authorization:

- Define user roles and permissions
- Implement user registration and login functionality

###### Notice board:

- Create functionality for posting notices and announcements.
- Implement categorization and tagging for notices.
- Develop search, filter, and sorting functionality for notices.

###### Event management:

- Implement functionality for creating events with details such as date, time, location, and description
- Develop categorization and tagging for events
- Implement user registration and notification functionality for events

###### Security:

- Implement encryption and user data protection measures
- Conduct regular security audits and updates to maintain website integrity

##### 4.3 Use Case Diagram

A visual picture of the interactions between actors and the system is provided by the use case diagram for a web-based online notice board with an event management system..

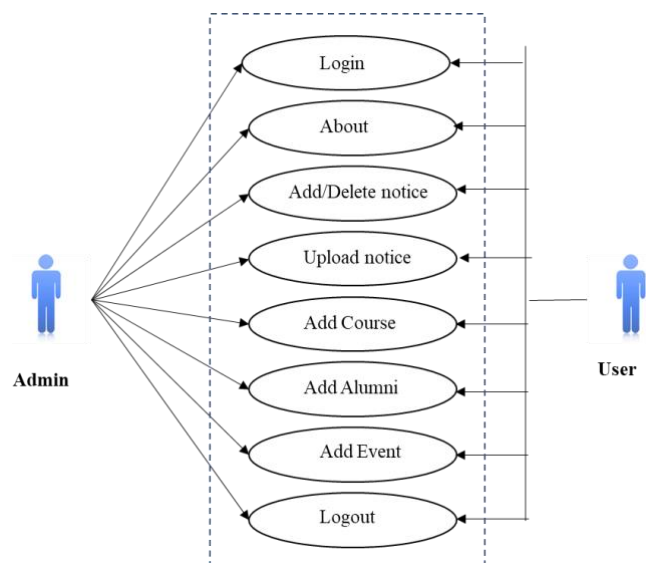


Figure 2. Use case Diagram

On the left side of the use case diagram would be the actors (Administrator and User), and on the right side would be a collection of use cases. With lines depicting their interactions, the use cases would be linked to the actors. For instance, the Create Notice and View Notice use cases would be linked to both the User and Administrator actors, while the Register/Login use case would be tied to the User actor.

#### 4.4 Activity Flow Diagram for User

The activity diagram for the user site of a web-based online notice board with event management system would show the flow of activities that a user would perform while browsing and interacting with the website.

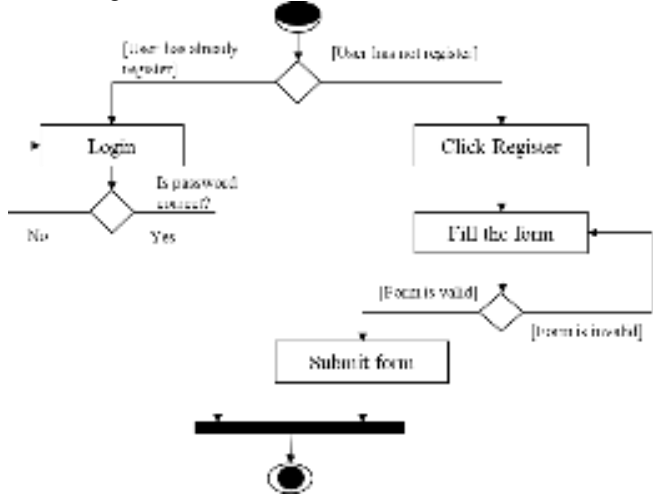


Figure 3. Activity Flow Diagram for user

Start: The activity diagram starts with the user accessing the website's home page.

View Notices: The user can select the View Notices option from the home page, which leads to a new activity that includes the following steps:

- Browse Notices: The user can browse a list of notices posted on the website.
- Search Notices: The user can search for a notice by typing keywords in a search box.
- View Notice Details: The user can view the details of a notice by selecting it from the list.

View Events: The user can select the View Events option from the home page, which leads to a new activity that includes the following steps:

- Browse Events: The user can browse a list of events posted on the website.
- Search Events: The user can search for an event by typing keywords in a search box.
- View Event Details: The user can view the details of an event by selecting it from the list.

The activity diagram would show each activity as a box, with lines connecting the boxes to show the flow of activities. The arrows would indicate the direction of the flow, and the boxes would include labels to describe the activity being performed.

#### 4.5 Class Diagram

The class diagram for a web-based online notice board with an event management system would show the classes and their relationships with each other.

User: The following characteristics would be included in this class, which represents a system user:

- 'username': The username of the user as a string
- 'password': The password for the user as a string

Notice: This class represents a notice posted on the website and would have the following attributes:

- 'id': The notice ID is represented as an integer.
- 'title': A string that represents the notice's title
- 'description': a string that represents the notice's description
- 'date\_created': The notice's creation date is represented via a DateTime object.
- 'is\_published': A boolean value that represents whether or not the notification has been published.

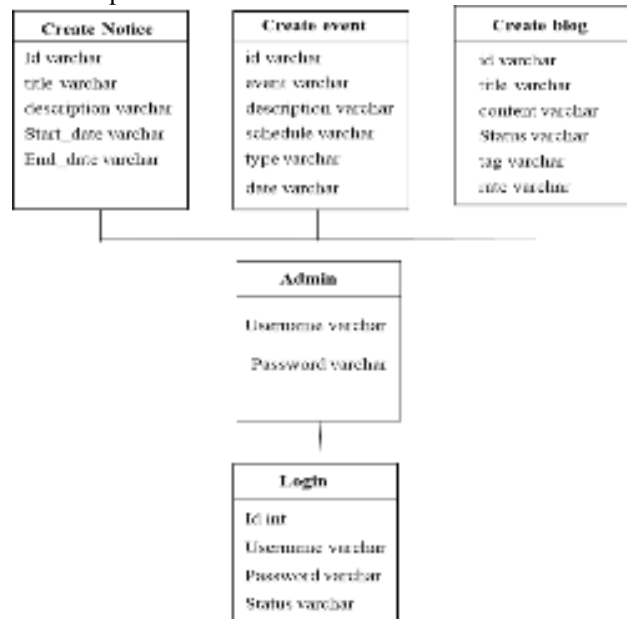


Figure 4. Class Diagram

Event: This class represents an event posted on the website and would have the following attributes:

- 'id': A number that symbolizes the event ID
- 'title': A string that identifies the event's name
- 'description': A string that encodes the event's description
- 'date\_created': A DateTime object providing the event's creation date
- 'start\_time': A datetime object indicating the event's beginning time
- 'end\_time': A datetime object indicating the event's ending time

#### 4.6 Activity Flow Diagram for Admin

The activity diagram for the admin site of a web-based online notice board with event management system would show the flow of activities that the administrator would perform while managing the website's content. The activity diagram would show each activity as a box, with lines connecting the boxes to show the flow of activities. The arrows would indicate the direction of the flow, and the boxes would include labels to describe the activity being performed.

Once logged in, the administrator is presented with a dashboard displaying an overview of the website's performance and user engagement.

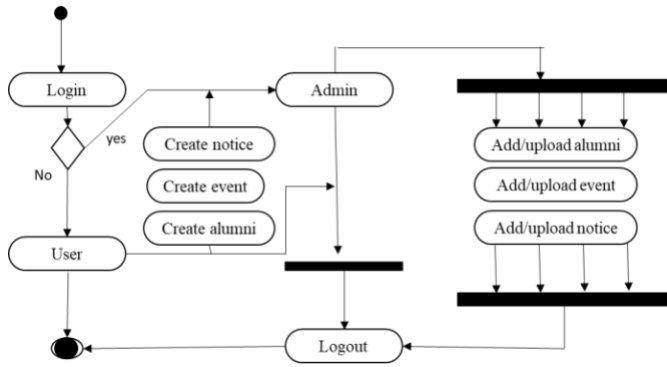


Figure 5. Activity Flow Diagram for admin

## 5. Results and Discussion

### 5.1 User Home Page

The home page of an e-notice board website would typically have a menu bar or navigation menu that allows users to access different sections of the website. Here is a brief description of each section:

- Home: This section would typically display a welcome message and provide an overview of the website's features.
- About: This section would provide information about the website, such as its purpose, history, and goals.
- Notice Board: This section would display a list of notices posted on the website, sorted by date and category. Users could filter the notices by category or search for specific notices using keywords.
- Course: This section would provide information about the courses offered by the institution or organization associated with the website. Users could access course descriptions, schedules, and registration forms.
- Alumnis Blog: This section would provide a platform for alumni of the institution or organization to share their experiences and insights with current and prospective students. Users could access blog posts, comments, and social media links.
- Event Section: This section would display a list of upcoming events organized by the institution or organization associated with the website.

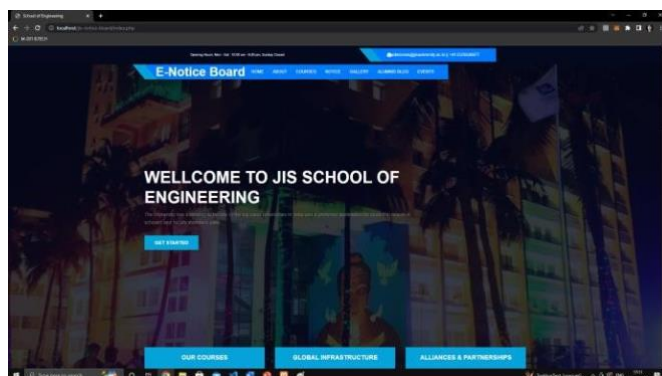


Figure 6. User Home Page

Each section may also include additional features and functionalities, such as a feedback form, contact information, social media links, and multimedia content (e.g., images, videos, audio clips). An intuitive and user-friendly interface will be provided on the front page to entice visitors to explore and interact with the website.

### 5.2 E-Notice Board Module

A calendar-based notice board section is designed to display important dates, events, and announcements in a calendar format. This type of notice board allows users to view and navigate through dates and events easily. Here is a brief description of how a calendar-based notice board section might work:

The notice board section would display a calendar view that shows the current month with all the dates. Users could click on a specific date to view the notices or events scheduled for that date. Each notice or event would be displayed as a clickable link or a pop-up window that provides more details about the event. Users could filter the notices or events by category or search for specific notices using keywords.

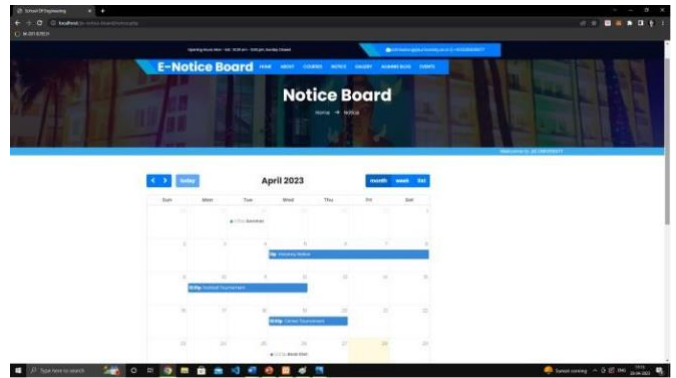


Figure 7. User E-notice Board Home page

The notice board section could also include features such as a reminder system that sends notifications to users before an event or a notice is scheduled to occur. Administrators could easily manage and update the notice board by adding, modifying, or deleting notices and events using a simple and user-friendly interface.

A calendar-based notice board section provides an organized and convenient way for users to access important information about upcoming events and notices. It also helps administrators to keep the notice board up-to-date and easily manage and organize notices and events.

### 5.3 User Course Module

A course section that contains different programming courses like C, C++, Java, and Python would typically provide information about each course, such as course descriptions, schedules, and registration forms. Here is a brief description of how the course section might work:

- The course section would display a list of courses available, such as C, C++, Java, and Python.
- Users could click on a specific course to view more details about the course, such as the course

description, prerequisites, course duration, course outline, and course fees.

- Users could also view the course schedule to find out when the course is being offered and register for the course online by filling out a registration form.
- The course section could also include features such as a course forum or discussion board where users could ask questions, share ideas, and interact with other students taking the same course.
- Administrators could easily manage and update the course section by adding new courses, modifying existing course information, and updating the course schedule using a simple and user-friendly interface.



Figure 8. User Popular course page

A course section that contains different programming courses provides a valuable resource for individuals looking to improve their programming skills and advance their careers. It also helps institutions and organizations to attract and retain students by offering a range of courses that meet the needs and interests of different learners.

#### 5.4 The Blog Section

A blog section that features alumni blog posts would typically provide a platform for alumni to share their experiences, insights, and stories related to their academic and professional lives.

- The blog section would display a list of blog posts written by alumni of the institution or organization.
- Users could click on a specific blog post to read the post, view any images or videos included in the post.

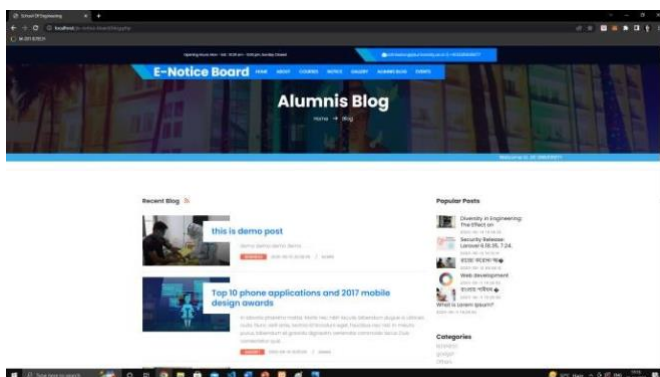


Figure 9. Alumni Blog page

- The blog section could also include features such as a search bar that allows users to search for specific blog posts by keyword, author, or date.
- Administrators could easily manage and update the blog section by adding new blog posts, approving or deleting comments, and updating the blog design and layout using a simple and user-friendly interface.

A blog section that features alumni blog posts provides a valuable platform for alumni to connect with each other and share their experiences, insights, and perspectives. It also helps institutions and organizations to showcase their alumni's success stories and achievements, and maintain a strong and active alumni community.

#### 5.5 Event Management Page

An event section that features different events with details would typically provide information about upcoming events, such as their descriptions, dates, times, and locations. Here is a brief description of how the event section might work:

The event section would display a list of upcoming events, such as seminars, workshops, conferences, and social events. Users could click on a specific event to view more details about the event, such as the event description, speakers, agenda, location, and registration information.

Users could also register for the event online by filling out a registration form or purchasing tickets. The event section could also include features such as a calendar that allows users to view upcoming events by date, category, or location. Administrators could easily manage and update the event section by adding new events, modifying existing event information, and updating the event calendar using a simple and user-friendly interface.

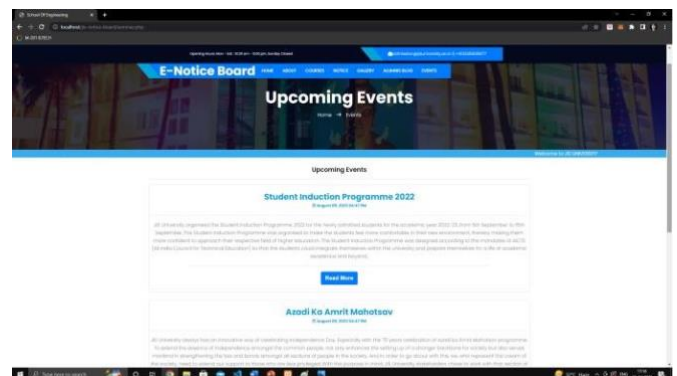


Figure 10. Upcoming Events Section

An event section that features different events with details provides a valuable resource for individuals looking to network, learn new skills, and engage with like-minded individuals. It also helps institutions and organizations to showcase their events and attract new attendees by offering a diverse range of events that meet the needs and interests of different audiences.

## 6. Conclusion and Future Scope

The proposed online e-notice board website with event management is a comprehensive solution that helps educational institutions and organizations to manage their notices and events efficiently. The website provides an easy-to-use interface for both administrators and users, which allows them to quickly and easily navigate through the website's various sections, including the notice board, course section, alumni blog, and event section. The website is designed to be user-friendly and accessible, making it an excellent platform for educational institutions and organizations to communicate important information to their students, faculty, staff, and other stakeholders. The online notice board section of the website is the main feature, and it is calendar-based. The calendar makes it easy for users to find notices and events based on their date of occurrence. The users can view the notices and events for a particular day, week, or month. The notices can be categorized based on their type, such as general notices, academic notices, examination notices, etc. The notices can also be filtered based on their department, course, or program. The online notice board section ensures that all important notices are available to users at all times. The course section of the website provides details of different courses available in the educational institution or organization. The courses can be categorized based on their level, such as undergraduate, graduate, or postgraduate. The course section contains information on the course curriculum, faculty, and admission requirements. The users can also view the course schedules, class timings, and other important details related to the courses. The event section of the website provides information on various events organized by the educational institution or organization, such as seminars, workshops, conferences, cultural events, sports events, etc. The event section provides details on the date, time, venue, and other important details related to the event. The users can also register for the events through the website. The alumni blog section of the website provides a platform for the alumni to share their experiences and achievements with the current students, faculty, staff, and other stakeholders. The alumni blog section is a great way to keep alumni engaged and connected with the educational institution or organization.

The proposed system can be enhanced and extended in several ways to make it more useful and efficient for educational institutions and organizations. Some possible future directions are: The system can be personalized based on user preferences, such as displaying notices and events related to their interests. The system can be enhanced to provide analytics on user engagement, such as which notices and events are most viewed and liked. The system can be integrated with social media platforms like Facebook, Twitter, and LinkedIn to enable users to share notices and events on these platforms. The system is compatible with other systems used by educational institutions, including learning management and student information systems.

### Data Availability

The data availability of an e-notice board website with event management would depend on the specific features and

functionality of the website. The availability of data on an e-notice board website with event management can enhance user experience by providing relevant and timely information to users. It can also help institutions and organizations to gather valuable feedback and insights from their users and stakeholders, which can inform future decision-making and planning.

### Conflict of Interest

Conflict of interest can arise for Advertising as the website accepts advertising or sponsorship from organizations that are promoting events or courses, there could be a conflict of interest for the website administrators to prioritize promoting those events or courses over others that may be more relevant or valuable to users. Also the website is run by an institution or organization that is also hosting events, and the administrators give preferential treatment to their own events over those hosted by other organizations and the website allows users to leave reviews or feedback about events or courses.

### Authors' Contributions

Author-1 developed the user interface and experience for the website, designing the layout of the site, creating wireframes, and implementing the final design. Also creating the server-side logic of the website. This would include implementing the database, creating APIs, and handling data validation and authentication. Author-2 creating a timeline for development, allocating resources, and ensuring that the project stays on track. Author-3 and Author-4 managing the content on the website. This would include writing blog posts, creating event listings, and managing the notice board.

### Acknowledgments

The article's analysis would like to thank Dr. Dharmpal Singh for granting the degree request and for helpful direction throughout the writing of this study. His selection of the subject and all of the useful advice he offered made a significant contribution to the development of this work without having an overwhelming or pedagogical impact. We also want to express our deep appreciation to Dr. Dharmpal Singh, the head of the department of engineering at JIS University, and all of the esteemed faculty members for providing the opportunity for the paperwork to be completed successfully.

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## AUTHORS PROFILE

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