UniVibes

An Engineering Project in Community Service

Final Phase – II Report

Submitted by
(Group 304)

1. **21BAS10023 Zahra Mundrawala**
2. **21BAS10090 Amber Tomar**
3. **21BCE10113 Rahul Singh**
4. **21BCE10666 Saksham Mathur**
5. **21BCE11283 Rohit Panjwani**
6. **21BCE11602 Pulkit Kumar Mathur**
7. **21BCG10017 Praveen Jai Prakash**
8. **21BCG10022 Sanidhya Mishra**

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Bachelor of Engineering and Technology

VIT Bhopal University
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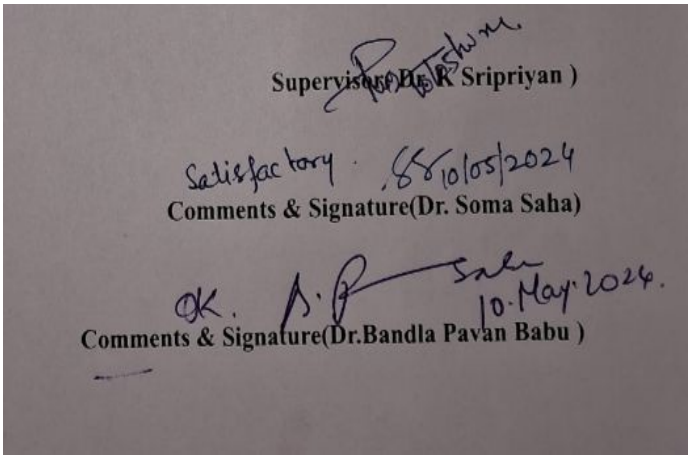
www.vitbhopal.ac.in

Bonafide Certificate

Certified that this project report titled **"UniVibes"** is the bonafide work of "21BAS10023 Zahra Mundrawala, 21BAS10090 Amber Tomar, 21BCE10113 Rahul Singh, 21BCE10666 Saksham Mathur, 21BCE11283 Rohit Panjwani, 21BCE11602 Pulkit Kumar Mathur, 21BCG10017 Praveen Jai Prakash, 21BCG10022 Sanidhya Mishra" who carried out the project work under my supervision.

This project report (Phase II) is submitted for the Project Viva-Voce examination held on 8th May 2024



Declaration of Originality

We, hereby declare that this report entitled "**Univibes"** represents our original work carried out for the EPICS project as a student of VIT Bhopal University and, to the best of our knowledge, it contains no material previously published or written by another person, nor any material presented for the award of any other degree or diploma of VIT Bhopal University or any other institution. Works of other authors cited in this report have been duly acknowledged under the section "References".

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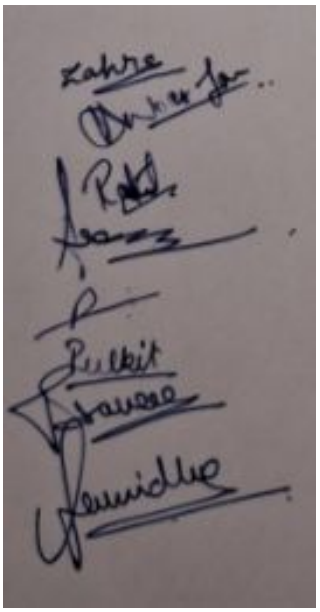

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1. INTRODUCTION:

UniVibes is a great tool for gatherings. This website acts as a platform for event knowledge and application. An online tool called Event Organizer is under the project management category and is used to arrange festivals and other social events like get-togethers, conferences, events, and so on. To comprehend the online application, have a look at the action flow. Using this web application, users may register students, log in, and view event details such as name, contact information, address, location, date, time, and fee. The reader can pay for the program after receiving the payment link on the respected college mail.

The online event management project UniVibes is designed to fulfill the duties of an event manager. Both new user registration and login are permitted by the system for registered users. The application helps with users, associated features, and event administration. The purpose of this is to be a web application. The project offers the majority of the fundamental features needed for an event type, such as a college festival, workshop, seminar, etc. The user may then choose the event's date, time, location, and contents using the system. The user receives a receipt number for their booking on their own profile after all information has been entered into the website. After that, the administrator (website owner) receives the data.

This website provides functions for creating, deleting, retrieving, altering, and more remotely at any time. This project has the ability to grant the system administrator and everyone else involved with a particular occasion all the necessary access. It will also be possible to add or remove an occasion. The final user can see the events that have been created and sign up for them. This task will create a problem-free method of handling an occurrence, which will reduce office work and manpower in the future.Every occasion's requirements are traceable. They might register for the event and provide their information. After that, the administrator receives this data and can use email to get in touch with the participants.

1.1 Problem Statement

How can colleges revolutionize event organization to boost efficiency, eliminate manual errors, and enhance student engagement through cutting-edge communication methods?

Major consequences due this are

- Subpar Event Experiences
- Low Participation
- Damage College Reputation
- Ineffective Communication
- Long Manual Processes

1.2 Motivation:

The main idea behind our project is to help keep the event database of all departments of our university and retrieve it in report form whenever we want. Organizing an event is a tedious and time-consuming job for the organizing committee. Event schedule has an important role, it can be any event from small to large. The purpose of making this website is to make it easy to find a schedule of events in one place. The invention satisfies the aforementioned needs and avoids state-of-the-art shortcomings and limitations and frustrations, and ensures a better, more timely and efficient process to schedule events and search and create reports based on this information. This website provides the opportunity to change information about an event that was previously entered and removed if necessary. This application contains two main users.

“UniVibes”, where event management at your university reaches new heights. This project harmonizes a dynamic Backend, an engaging Client Panel, and a powerful Admin Panel to orchestrate an unforgettable experience for music enthusiasts and event organizers alike.

1.3 Objective

The motive of the project is to develop a web application dedicated to some purpose, event organizers use the web application interface to create event schedules and provide student coordinators during implementation of the program.

Students can register for online applications and some of them register as a broker. Only event planners and producers can upload events related to the site. Participants can view events on the web app and apply online.

The great advantage of using this site is its minimization of direct communication between the student and the organizer of the event and avoids difficulties for students to reach the event and participation through an online application. It doesn't matter where the participants and the organizer are.

Why do we need this?

- Provide event organizers with an easy-to-use platform that simplifies event planning and management.
- Provide users with a friendly platform to view and book upcoming events based on location with details like event name, date, and timings.

Objectives:

- User Interface:
    - Intuitive and responsive UI for both users and admins
    - Multiple Panels for Students for each Clubs
- CRUD Operations:
    - Users can create, read, update and delete their bookings
    - Admins can create, read, update and delete events
- Security Measures:
    - Data Encryption
    - User Authentication and Authorization
    - Secure password practices

Features:

- User authentication and sessions
- Admin access control
- Events database for scheduling and layouts
- Homepage featuring upcoming events by category
- Detailed event pages with venue and seating maps

The web application is definitely simple. It does not require root user or system administrator.

2. Literature Review :

College events encompass a diverse range of activities, from social gatherings and club meetings to academic conferences and career fairs. Their purpose can be educational, social, or professional development, catering to various student interests and needs. Similar to the broader event landscape, college events can be categorized by size, type (social, academic, professional), and target audience (freshers, specific majors, etc.). College event management faces unique challenges. Limited budgets, diverse student interests, and logistical complexities necessitate innovative approaches.

On the other hand, college events offer exciting opportunities for student engagement, fostering a sense of community, and providing valuable learning experiences outside the classroom.

Key Considerations for UniVibes:

- Targeted Content: Cater to specific student interests and needs by offering detailed event descriptions, clear categorization, and search functionalities.
- Engagement Features: Encourage user interaction through discussion forums, polls, and social media integration.
- Accessibility and Inclusivity: Ensure the website is accessible for students with disabilities and caters to diverse student backgrounds.

- Streamlined Registration and Ticketing: Implement user-friendly registration and ticketing systems to manage event attendance efficiently.
- Feedback Mechanisms: Collect feedback from students to improve future events and website functionality.

Leveraging Technology for Success:

Mobile-friendly design, integration with campus calendars and social media platforms, and interactive features like event maps and live streaming can enhance the user experience and promote event engagement.

Mobile-Friendly Design

Mobile responsiveness is key in today's mobile-centric world. By ensuring that event websites are optimized for mobile devices, organizers can reach a wider audience and provide a seamless browsing experience. Users can easily access event information on their smartphones or tablets, leading to increased engagement and participation.

Integration with Campus Calendars

Integrating event calendars with campus calendars offers numerous benefits. Users can conveniently view all campus events in one place, stay updated on upcoming activities, and even sync events with their personal calendars. This integration streamlines communication and ensures that the campus community remains informed about various events.

Interactive Features:

Interactive elements such as event maps and live streaming add a dynamic dimension to event promotion. Event maps help attendees navigate venues efficiently, while live streaming enables remote participation and engagement. These features not only enhance user experience but also cater to diverse audience preferences, making events more accessible and engaging.

In conclusion, by incorporating mobile-friendly design, integrating with campus calendars, and incorporating interactive features like event maps and live streaming,

event organizers can create a compelling user experience that fosters engagement and boosts the success of their events. These strategies cater to modern preferences for seamless digital interactions and accessibility across various platforms.

By leveraging these tools effectively, event organizers can maximize participation, reach a broader audience, and create memorable experiences for attendees

Literature Insights for College Event Websites:

- Student-centric Approach: Prioritize student needs and preferences in website design and content.
- Building Community: Facilitate connections and interactions between students through event listings and engagement features.
- Promoting Event Quality: Highlight the educational, social, and professional development opportunities offered by college events.
- Data-driven Improvement: Utilize user feedback and analytics to continuously optimize the website and event management processes.

3. Topic of the work

3.1 System Design / Architecture:

The main value of this website is to provide the best user interface for students to see event details. This program contains various options like Roll No, event name, event description, location and contact details.

i. The framework can be signed by an administrator status. In the administrator mode all the choices of the framework will be enacted. Inserting, refreshing, and erasure of event details will be done in this mode.
ii. The framework provides various options such as overview, including search and schedule of events.
iii. The primary user enters all event information such as date, time, place, branch etc.

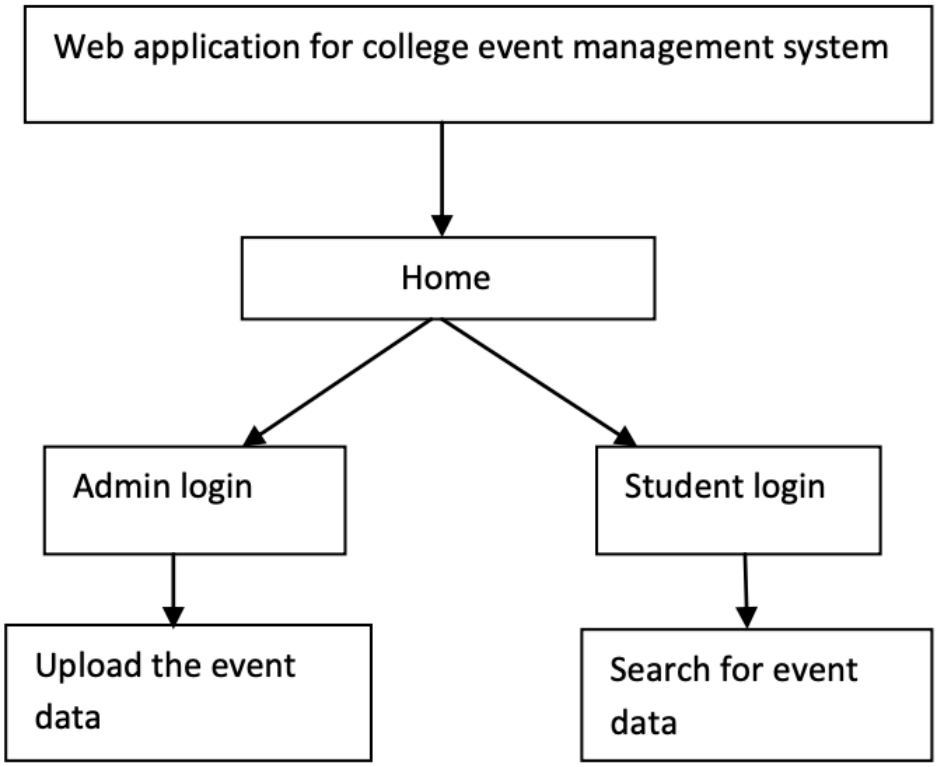


Fig 1.1 Flow Diagram

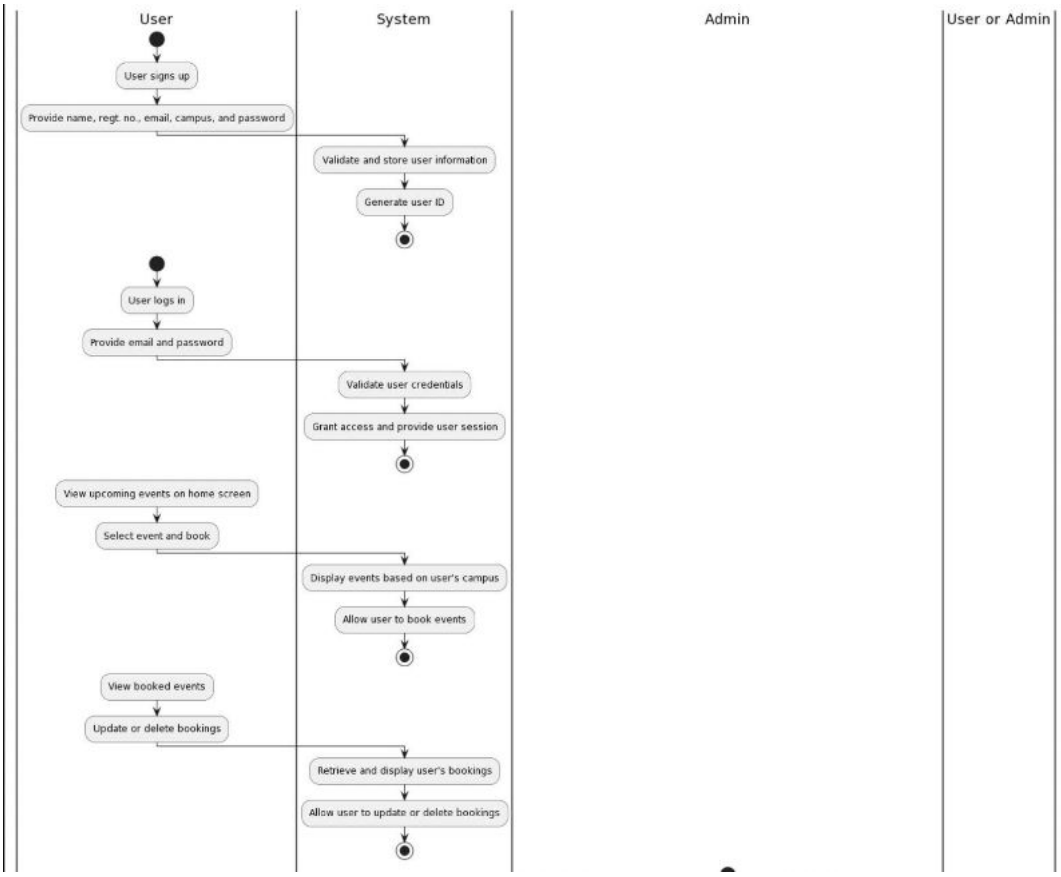


Fig 1.2 Activity Diagram

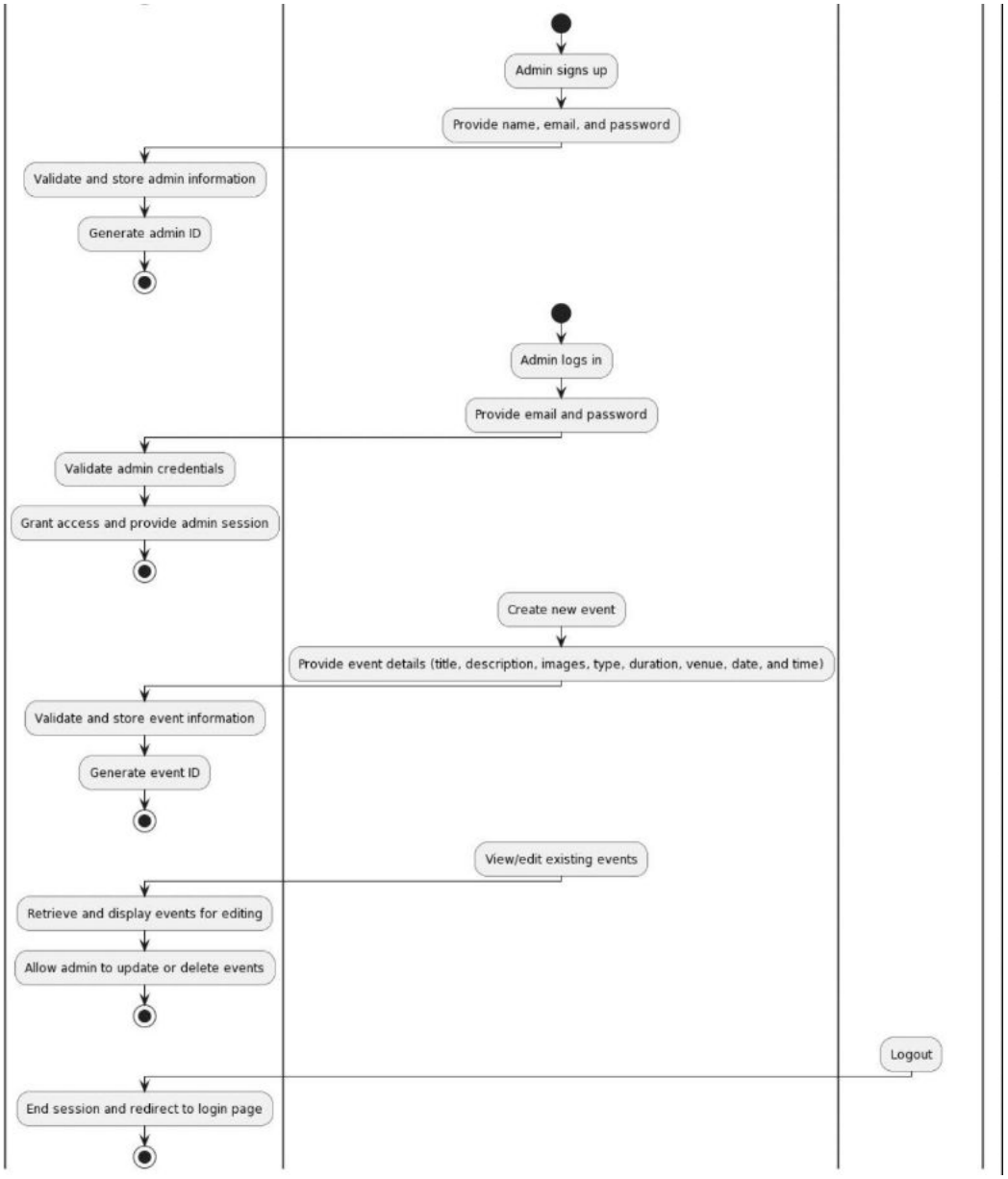


Fig 1.3 Activity Diagram

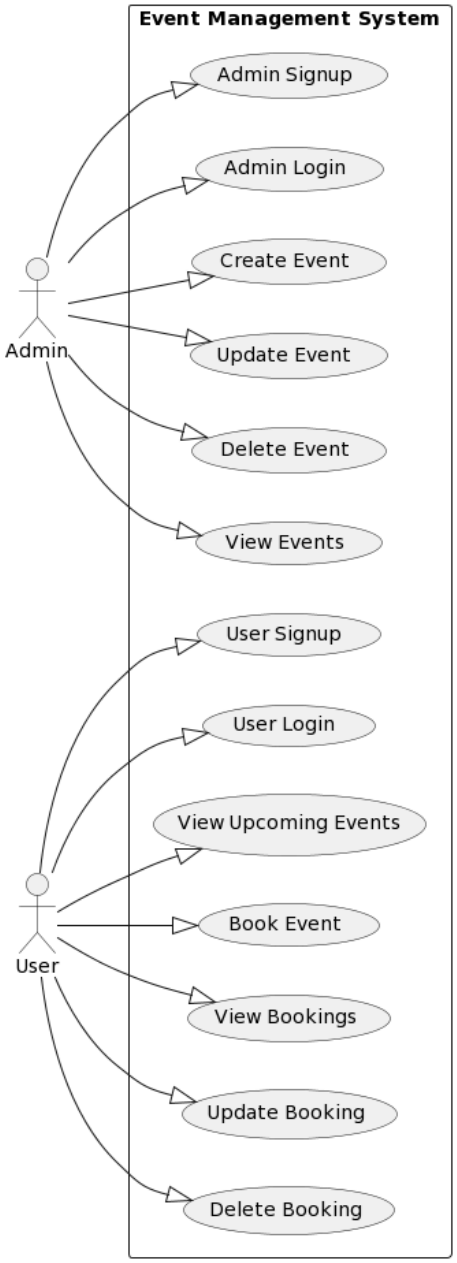


Fig 1.4 UseCase Diagram

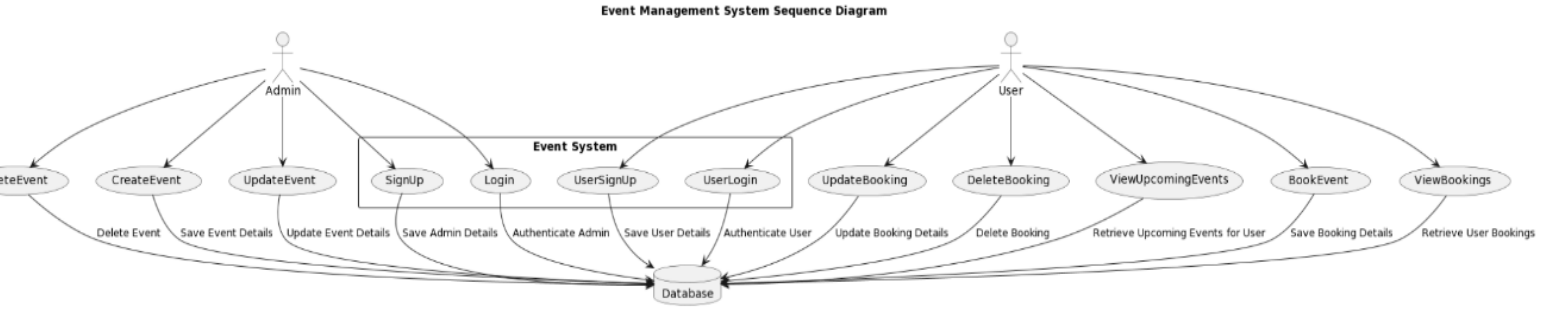


Fig 1.5 Sequence Diagram

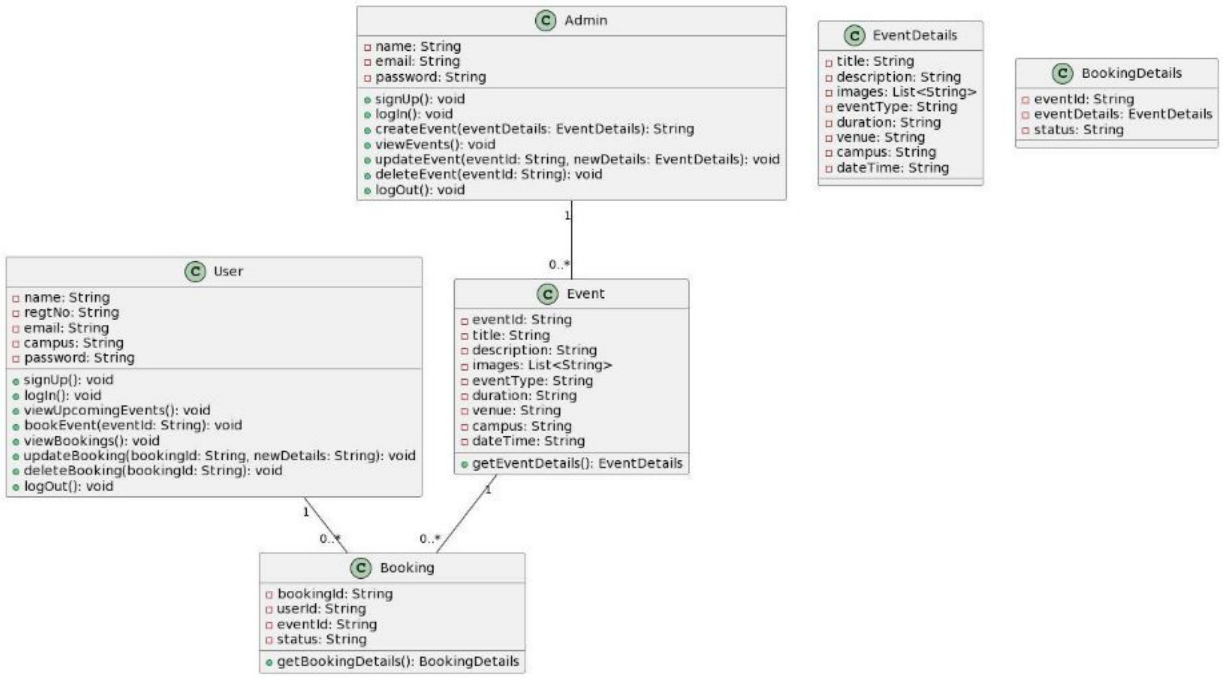


Fig 1.6 Class Diagram

3.2 Working Principle:

In this system there are two modules:

One is the student module and the other one is the admin module. In the admin module, admin can login by using login credentials like username and password. After logging in to the system some menu options will be seen like viewing the event data, event time table, event performance graph, and logout.

- Admin can upload the data, this is viewed by the student. Admin can generate the upcoming event time table, and the performance graph is generated based on the participation of students in specific departments.

- In the student module, students will register by providing details like roll no, first name, last name, email, and password. Students can login by using login credentials. Students can search the data according to event name or event description and also according to specific departments. Students can see the upcoming event time table and performance graph.

Technologies used in this framework are:

Front end: Front end languages: HTML, CSS, JavaScript

Backend: MongoDB

3.3 Expected Results:

This project will help in managing event data and automate report generation. This project will definitely reduce human effort and will make it easier for Universities to shift from traditional methods. This is a proper college event management system for the institution to maintain records of student transactions. This reduces the burden on the event coordinators and is an efficient procedure. Information is easily accessible. The website keeps all the data simple. The proposed work is automated and has been created utilizing advanced language in this way it gives a greater number of facilities.It provides quick access to everything information

3.4 Individual Contribution:

1. **21BAS10023 Zahra Mundrawala -**

My contribution

- **Description:** As a member of the development team, my primary responsibility was to implement user authentication functionality to ensure the security and authenticity of users accessing the app. This involved integrating authentication mechanisms, such as login, registration, and password management, to provide a secure environment for users to interact with the app.

Technical Details:

Frontend Coding:

- I utilized HTML, CSS, and JavaScript to create the user interface for the authentication pages, including the login and registration forms.
- Implemented client-side validation to ensure the correctness of user inputs before submission.
- Integrated UI frameworks like Bootstrap to enhance the visual appeal and responsiveness of the authentication pages.

Backend Implementation:

2. Implemented server-side authentication logic using Node.js and Express.js.
3. Utilized bcrypt.js to securely hash and store user passwords in the database.
4. Implemented JSON Web Token (JWT) authentication for secure communication between the frontend and backend.
5. Created API endpoints for user authentication, including login, registration, and password reset functionality.

Database Integration:

Integrated MongoDB as the database for storing user information and authentication tokens.

Implemented database queries and data validation to ensure the integrity and security of user data.

Security Considerations:

Implemented measures to prevent common security vulnerabilities, such as SQL injection and cross-site scripting (XSS), by validating user inputs and sanitizing data.

Utilized HTTPS to encrypt data transmitted between the client and server, ensuring the confidentiality of user information.

2. 21BAS10090 Amber Tomar -

- My Contribution:

  I played a crucial role in the project by developing modules for handling event images and posters in real-time, utilizing the Cloudinary API. This contribution significantly enhanced the app's functionality and user experience, enabling seamless management of visual content for events, meetings, and festivals.

- Technical Details:

  Module Development: I designed and implemented modules responsible for uploading, storing, and displaying event images and posters. These modules integrated with the Cloudinary API, allowing for efficient management of media assets.

  Cloudinary API Integration: I integrated the Cloudinary API into the app, enabling features such as image upload, transformation, and storage. This integration ensured scalability and reliability for handling media assets.

- Frontend Coding:

  I contributed to frontend development, ensuring a user-friendly interface for uploading and viewing event images and posters.

  Technical Challenges: I effectively addressed technical challenges related to real-time image processing and management. This included implementing error

handling mechanisms and optimizing image loading times for a smooth user experience.

Overall, my contribution significantly enhanced the app's functionality, making it more efficient and user-friendly. User's technical expertise, especially in frontend coding and API integration, played a crucial role in the project's success.

3. 21BCE10113 Rahul Singh - Designed the database schema for efficient implementation and quicker access/retrieval of data

Database Design and Schema Development:

a. Designed a comprehensive database schema using MongoDB Atlas and Mongoose ODM, focusing on efficient data implementation, quick access, and retrieval.
b. Defined data models for:
    i. Users (storing user information, roles, authentication details)
    ii. Events (capturing event details, schedule, location references, ticket pricing, seating layouts)
    iii. Locations (storing venue information, capacity, etc.)
    iv. Bookings (tracking user registrations for events)
    v. Media (referencing uploaded event images stored in Cloudinary)
c. Established relationships between models for efficient data retrieval (e.g., referencing locations within events).
d. Optimized data types and indexing strategies within the schema to ensure fast query performance.

Backend Development:

e. Implemented core backend functionalities for user interaction, event management, and data retrieval based on the designed schema.
f. Developed API endpoints that leverage the schema structure for efficient data exchange between frontend and backend.
g. Handled data validation and error handling on the server-side.

Security:

h. Contributed to robust security measures by implementing access control rules and user input sanitization.
i. Ensured secure storage of user passwords using Bcrypt hashing.

Cloudinary Integration:

j. Integrated Cloudinary API for secure and scalable storage of event images.
k. Developed functionalities for uploading, storing, and referencing media assets within the database schema.

4. 21BCE10666 Saksham Mathur - Designed the Admin panel to Add, Read, Update, Delete events and manage users

Technologies Used:

- Backend Framework: Express.js
- Database: MongoDB Atlas (with Mongoose ODM)
- Authentication: JWT Auth

My Contributions:

- **Admin Panel Development:**
    - Designed and implemented a user-friendly admin panel for efficient event management and user control.
    - Developed functionalities for:
        - **Event Management (CRUD - Create, Read, Update, Delete):**
            - Creating new events with details like title, performers, categories, images, and descriptions.
            - Reading and retrieving existing event information for modification.
            - Updating event details (schedule, locations, pricing, etc.).
            - Deleting events and associated data securely.
        - **User Management:**

        - Viewing a list of registered users and their information.
        - Searching and filtering users based on specific criteria.
        - (Optional, depending on project scope) Modifying user roles or permissions.
- **Data Integration:**
    - Ensured seamless integration between the admin panel functionalities and the backend database.
    - Utilized Mongoose ODM to interact with the designed database schema for efficient data manipulation (CRUD operations for events and users).
- **Security:**
    - Implemented authorization checks within the admin panel to restrict access based on user roles (admins vs. students).
    - Ensured secure data handling within the panel to prevent unauthorized modifications.

5. 21BCE11283 Rohit Panjwani -

My Contribution:

1. Login/Signup Page:

I developed the login and signup pages for both administrators and clients. These pages provide a secure and user-friendly interface for users to authenticate themselves and access the respective functionalities of the website.

2. Admin Dashboard:

- Dashboard Layout: I designed the layout and structure of the admin dashboard, ensuring ease of navigation and access to key features.

- Add Programme Section: Implemented the functionality for administrators to add new programs/events to the system. This involved designing input forms, implementing form validation, and integrating with the backend for data storage.

- Add Schedule Section: Developed the interface for administrators to create schedules for events. This section allows them to specify details such as date, time, and venue for each program.

- Add Auditorium Section: Created the functionality for administrators to add new auditoriums to the system. This includes capturing details like capacity, location, and availability.

6. **21BCE11602 Pulkit Kumar Mathur -** Worked on combining all the backend and frontend modules to develop a full fledge working website.

   My Contribution -

   - Backend Development of Admin Panel: Your work on the backend of the Admin Panel was crucial for enabling faculty coordinators to manage events effectively. By implementing features like event creation, scheduling, and management tools, you streamlined the administrative tasks associated with organizing events.
   - Implementation of Security Measures: Incorporating bcrypt.js for password hashing and implementing secure data transmission protocols demonstrates your commitment to safeguarding user data. These measures are essential for maintaining user trust and ensuring compliance with data protection standards.
   - Backend Development of Client Panel: Your contributions to the backend of the Client Panel empowered students to interact with the platform seamlessly. Through the development of APIs and database structures, you facilitated smooth data retrieval and manipulation, enhancing the overall user experience.
   - Dynamic Seating Layout: The implementation of a dynamic seating layout feature showcases your frontend development skills and your attention to user experience details. This feature not only adds functionality but also improves user engagement during the ticket booking process.
   - Typescript for Frontend: Leveraging Typescript for frontend development reflects your commitment to writing robust and maintainable code. The use of static typing enhances code quality and reduces runtime errors, contributing to the stability of the application.
   - Database Management with MongoDB: Your expertise in managing MongoDB for database operations ensured efficient data storage, retrieval, and performance

optimization. Proper database design and management are critical for scalability and data integrity, key aspects of any successful application.

7. 21BCG10017 Praveen Jai Prakash -

As a contributor to the development of the college website's admin panel, my focus was on creating a
streamlined platform for managing various events like seminars, workshops, and club activities. This
involved:

1. Planning and Design: Collaborating with stakeholders to identify requirements and design an
intuitive interface with a comprehensive dashboard.
2. Feature Implementation: Building functionalities for creating, editing, and deleting events, along
with registration management and notification systems.
3. Security Measures: Ensuring robust security protocols to safeguard user data and maintain
confidentiality.
4. Testing and Deployment: Conducting thorough testing to ensure reliability and deploying the admin
panel to provide ongoing support and maintenance.

Through this contribution, we aimed to enhance event organization efficiency, improve communication, and foster community engagement within the college.

7. 8. 21BCG10022 Sanidhya Mishra -

Designed the Events layout page and Implementing filters and search functionalities to allow users to find events based on their preferences. Incorporating multimedia elements such as images, videos, and descriptions to provide comprehensive information about each event.

My Contributions:

As a member of the development team, my primary responsibilities revolved around designing the layout for the event section and managing the layout section of the client-side login page

Designing Event Section Layout:

One of my key contributions to the UNIVIBES website project was designing the layout for the event section. This involved creating a user-friendly and visually appealing interface that effectively showcased upcoming events, workshops, and seminars. The layout design focused on easy navigation, clear presentation of event details, and integration with other sections of the website.

Key aspects of the event section layout design included:

- Organizing events by categories such as workshops, seminars, and special events for better user accessibility.
- Implementing filters and search functionalities to allow users to find events based on their preferences.
- Incorporating multimedia elements such as images, videos, and descriptions to provide comprehensive information about each event.
- Ensuring responsiveness across various devices to offer a seamless browsing experience.

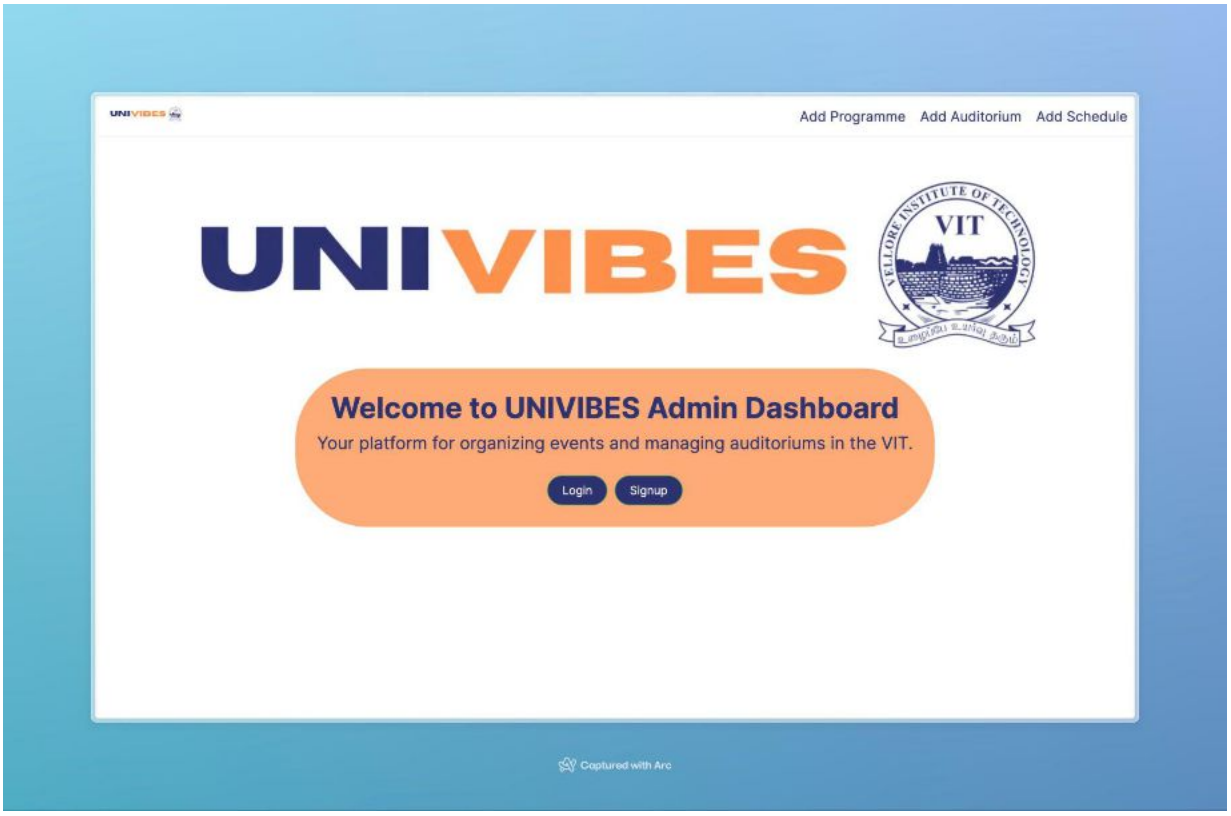
Choosing Layout for Developers to Build Upon:

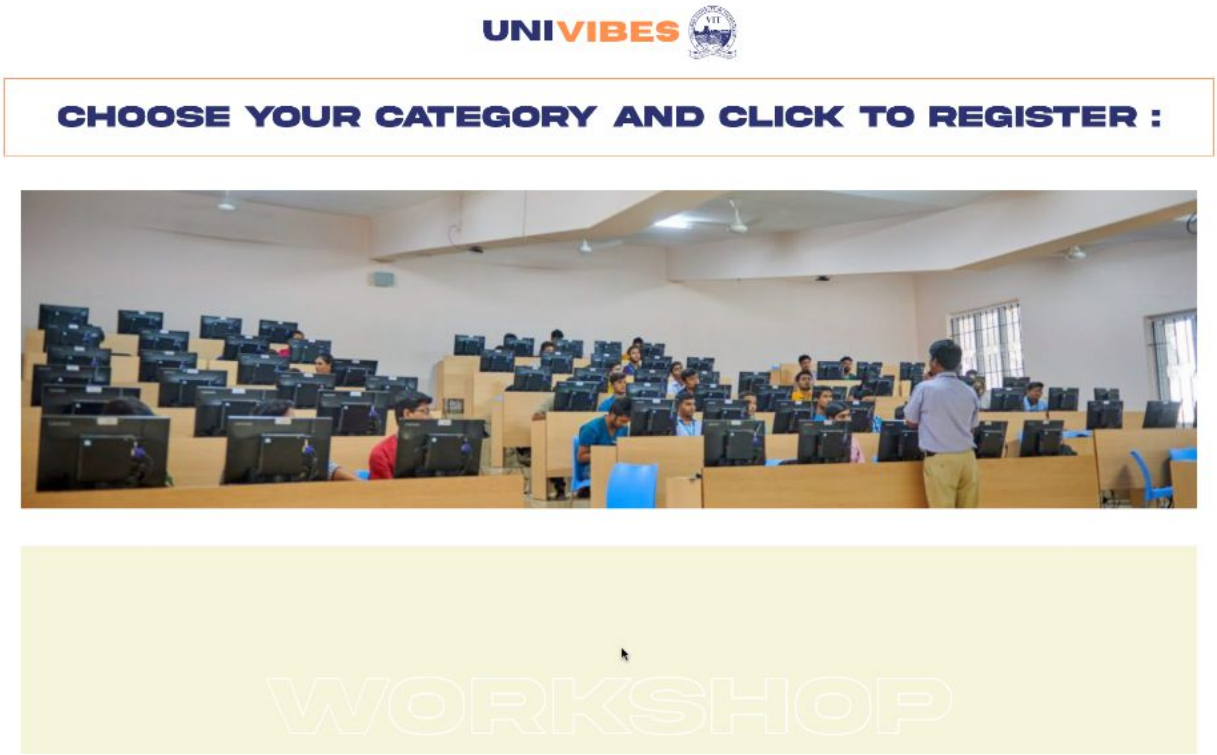
In addition to designing the event section layout, I played a crucial role in selecting the appropriate layout for developers to build upon. This involved considering factors such as scalability, compatibility with existing frameworks, and alignment with project requirements.

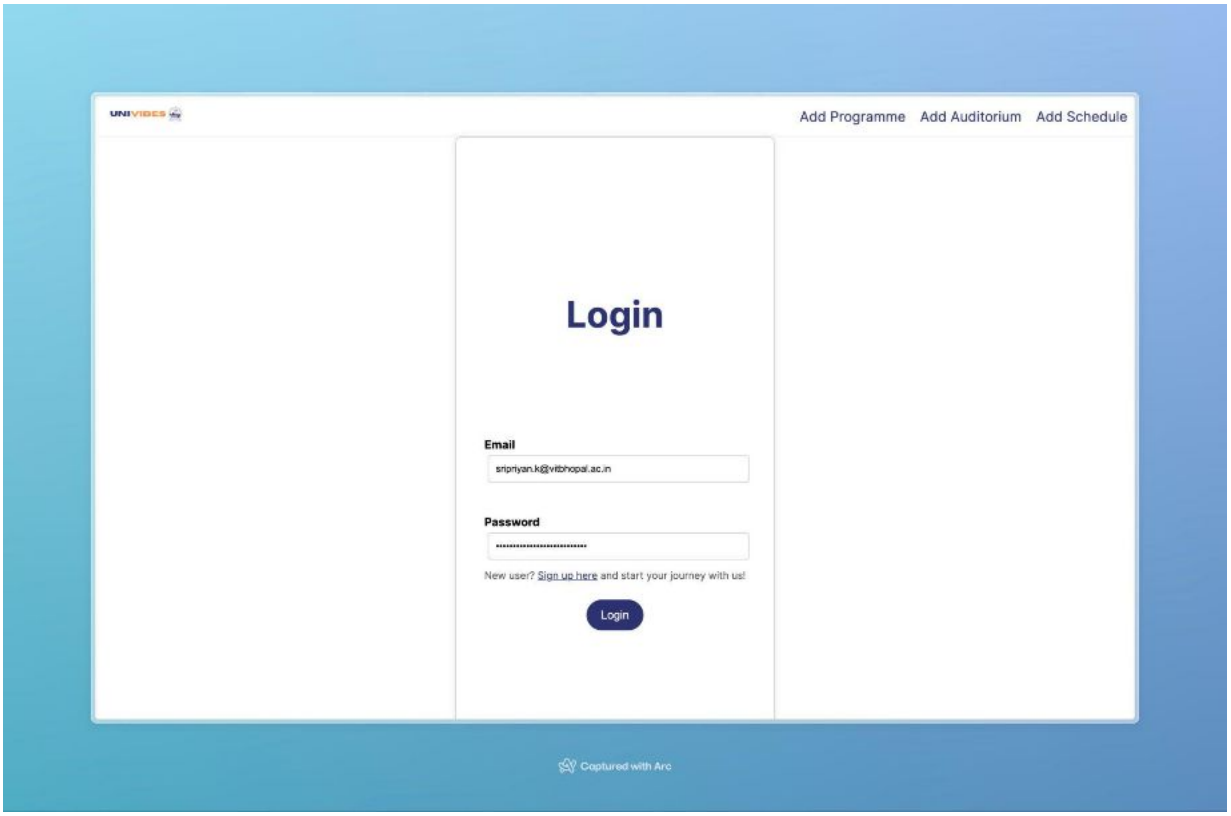
Key features of the client-side login page layout included:

- Clear distinction between login and signup options for new and existing users.
- Integration of upcoming events section to encourage user engagement and participation.
- Streamlined registration process with easy-to-follow steps for event registration.
- Implementation of interactive elements such as buttons, forms, and dropdown menus for user interaction.

3.5 Screenshots of Project:



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New user? Sign up here and start your journey with us!
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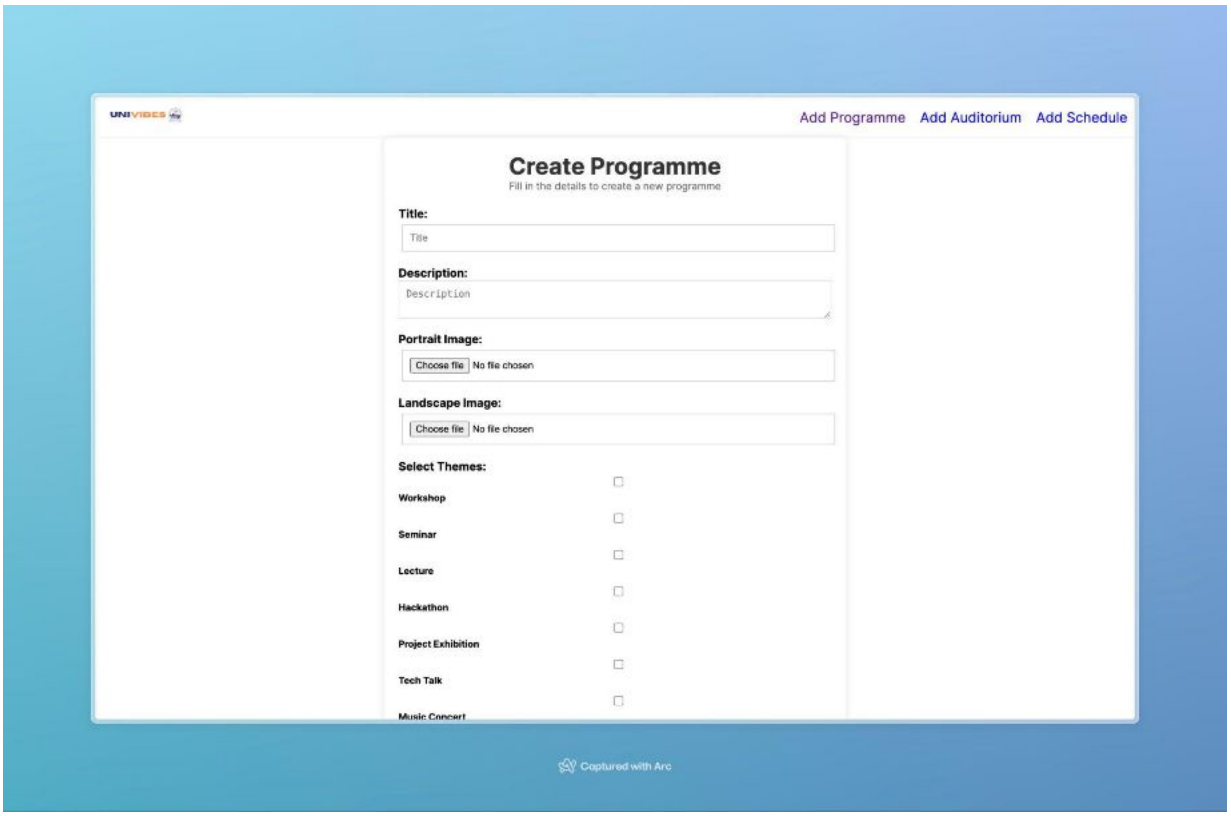
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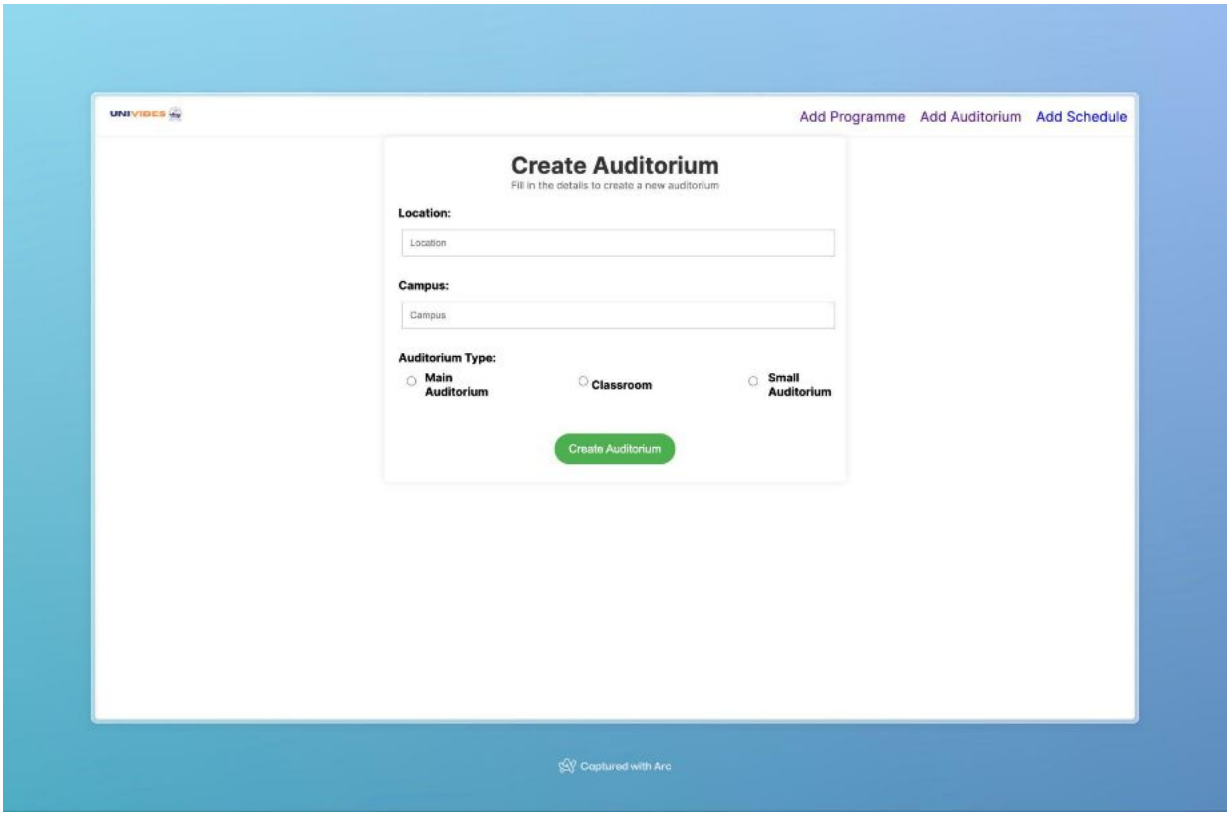
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Auditorium Type:
Main Auditorium
Classroom
Small Auditorium
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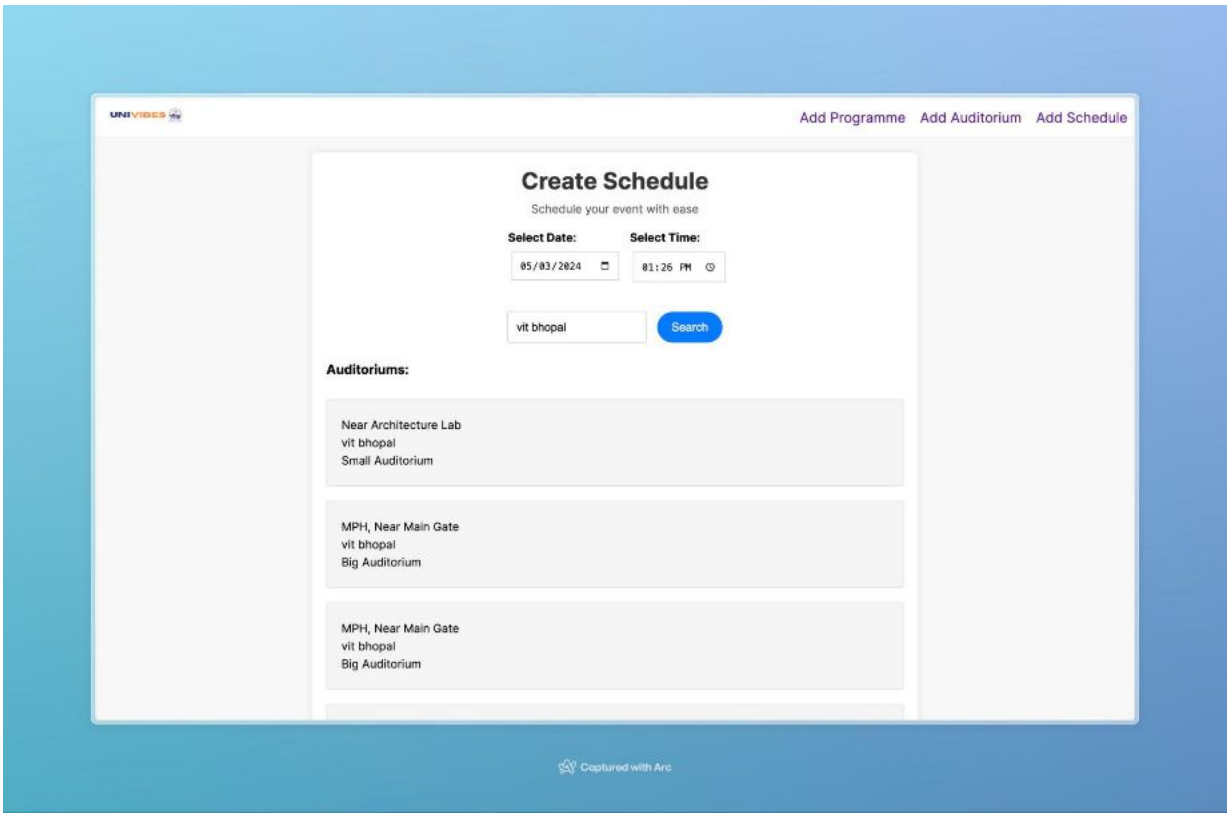
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Schedule your event with ease
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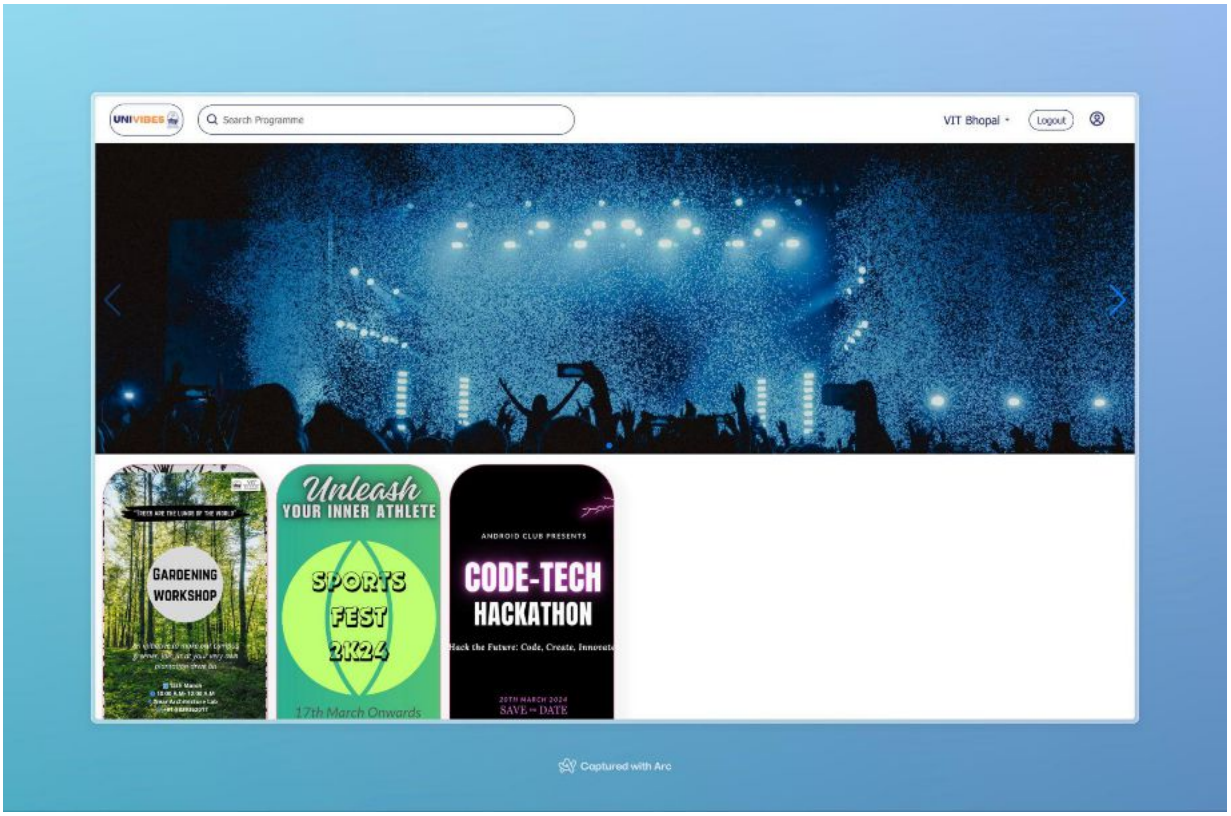
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Hack the Future: Code, Create, Innovate
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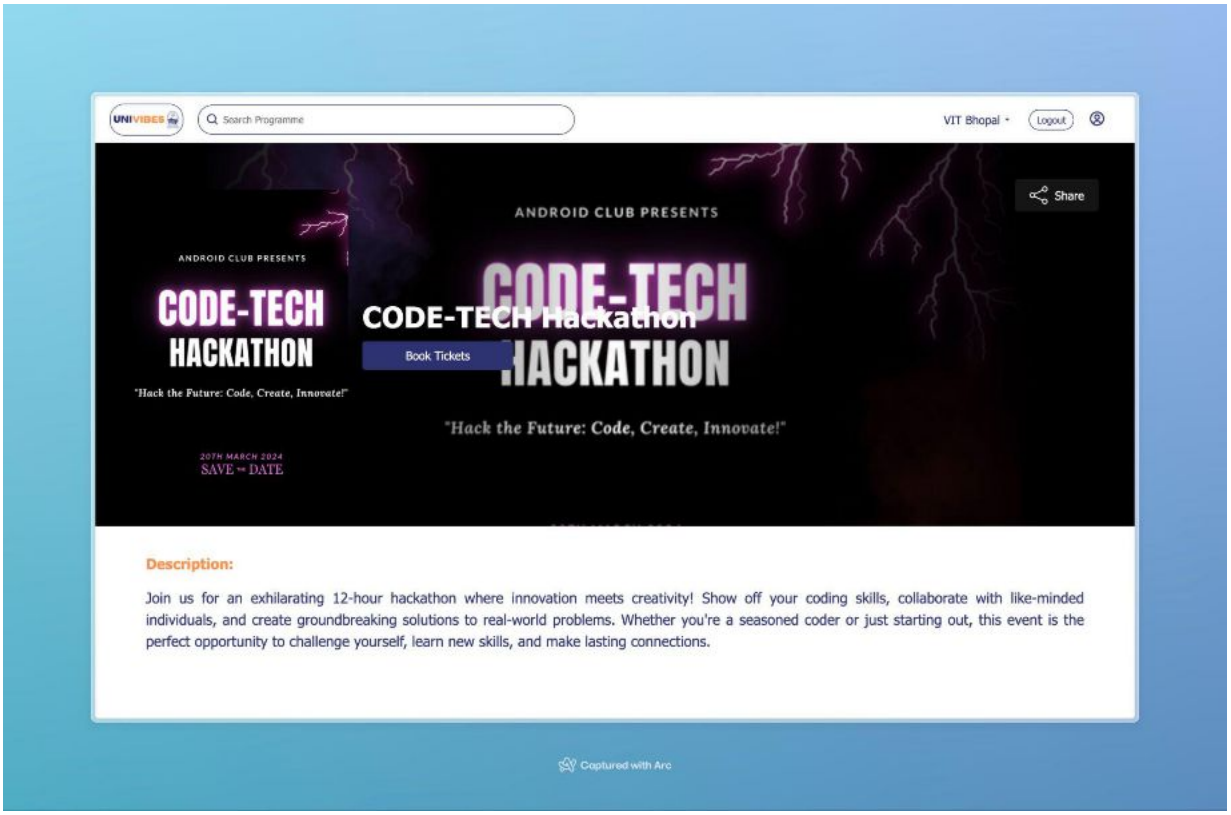
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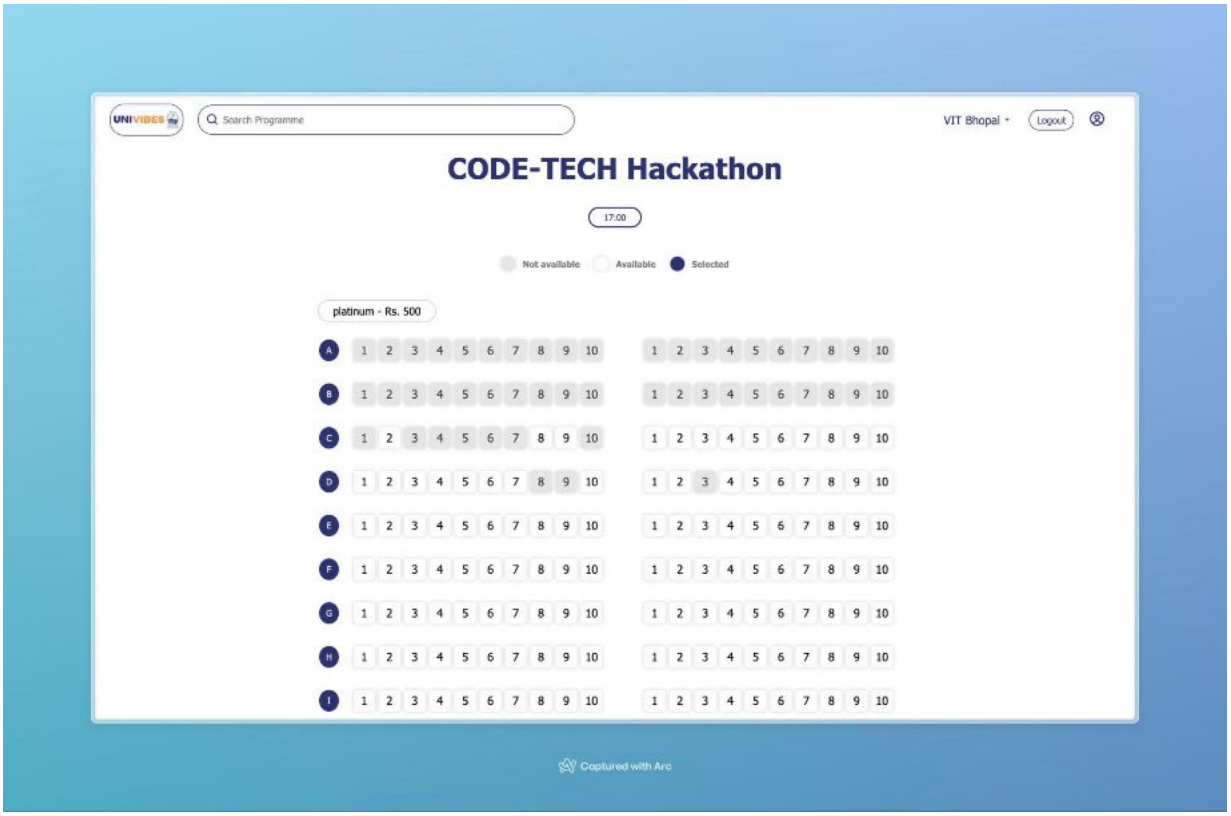
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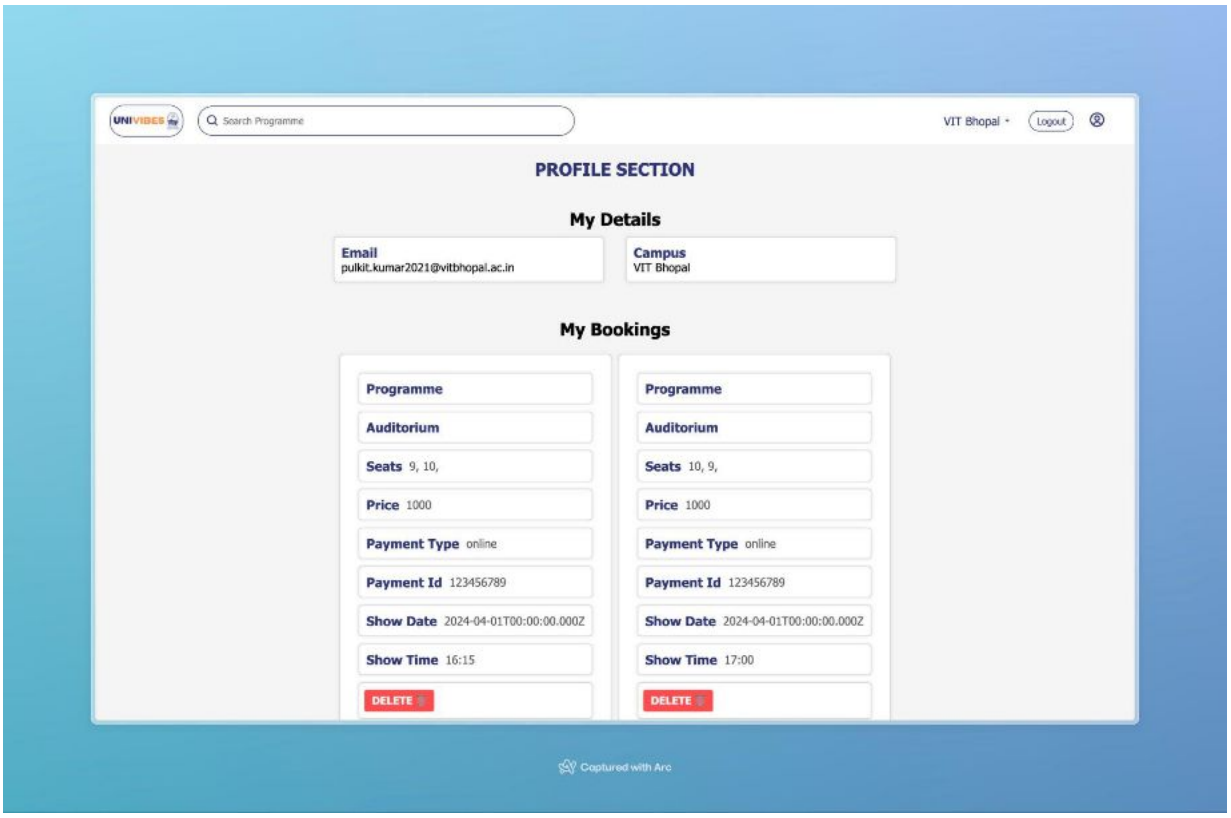
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Campus
VIT Bhopal
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Programme
Auditorium
Seats 9, 10,
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Payment Type online
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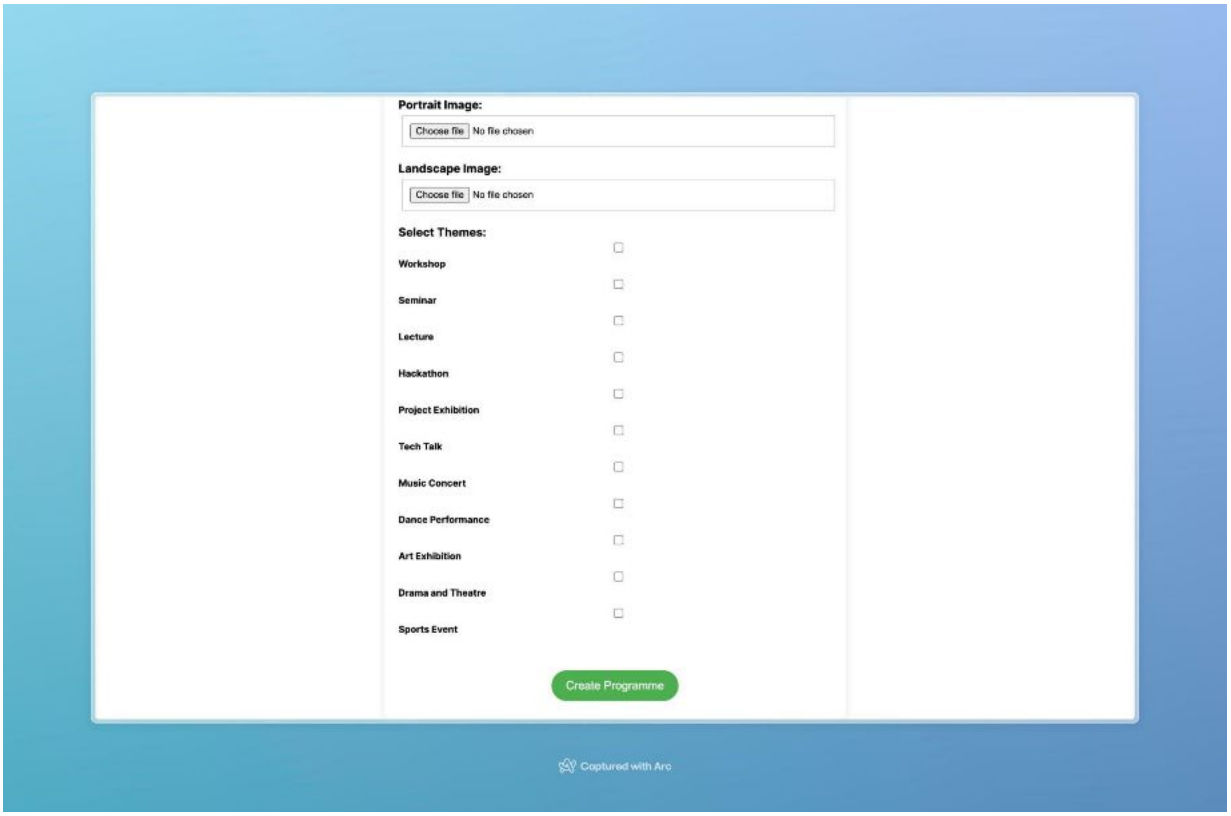
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Project Exhibition
Tech Talk
Music Concert
Dance Performance
Art Exhibition
Drama and Theatre
Sports Event
Create Programme
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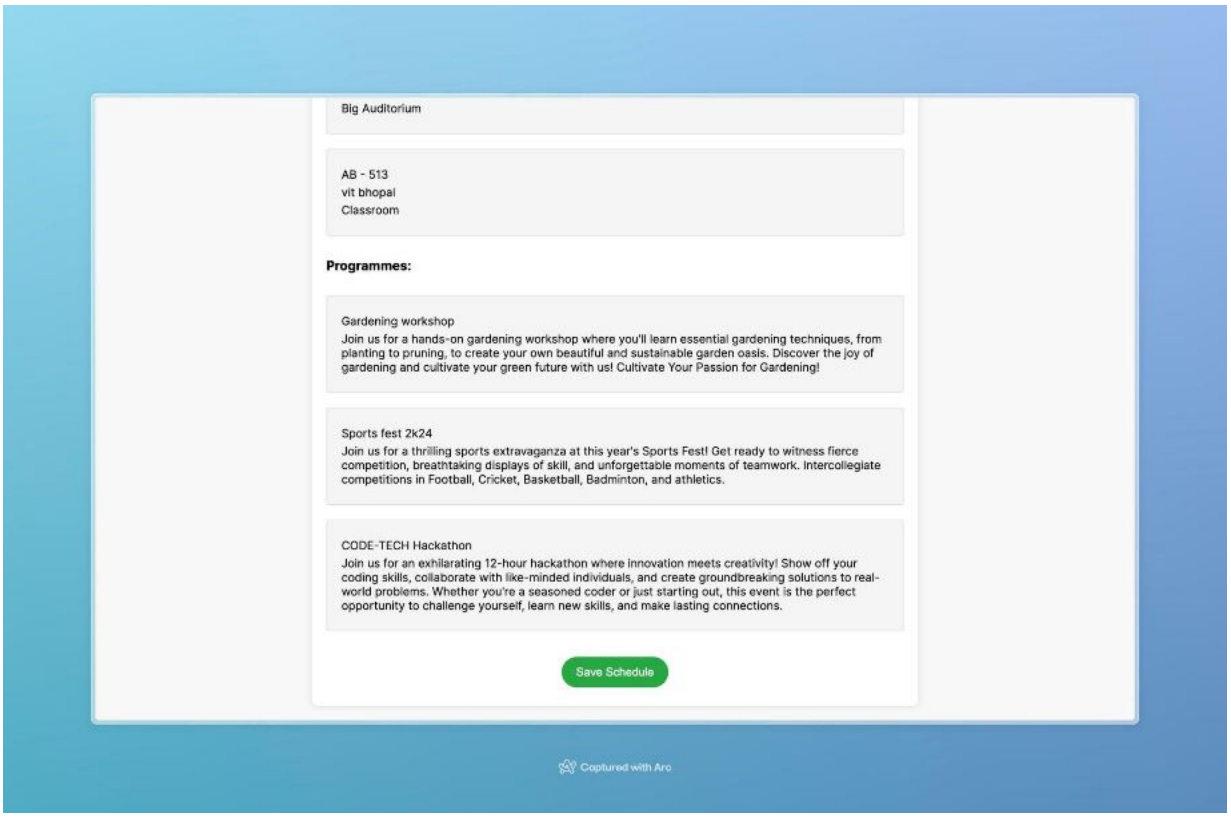
Big Auditorium
AB - 513
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Classroom
Programmes:
Gardening workshop
Join us for a hands-on gardening workshop where you'll learn essential gardening techniques, from planting to pruning, to create your own beautiful and sustainable garden oasis. Discover the joy of gardening and cultivate your green future with us! Cultivate Your Passion for Gardening!
Sports fest 2k24
Join us for a thrilling sports extravaganza at this year's Sports Fest! Get ready to witness fierce competition, breathtaking displays of skill, and unforgettable moments of teamwork. Intercollegiate competitions in Football, Cricket, Basketball, Badminton, and athletics.
CODE-TECH Hackathon
Join us for an exhilarating 12-hour hackathon where innovation meets creativity! Show off your coding skills, collaborate with like-minded individuals, and create groundbreaking solutions to real-world problems. Whether you're a seasoned coder or just starting out, this event is the perfect opportunity to challenge yourself, learn new skills, and make lasting connections.
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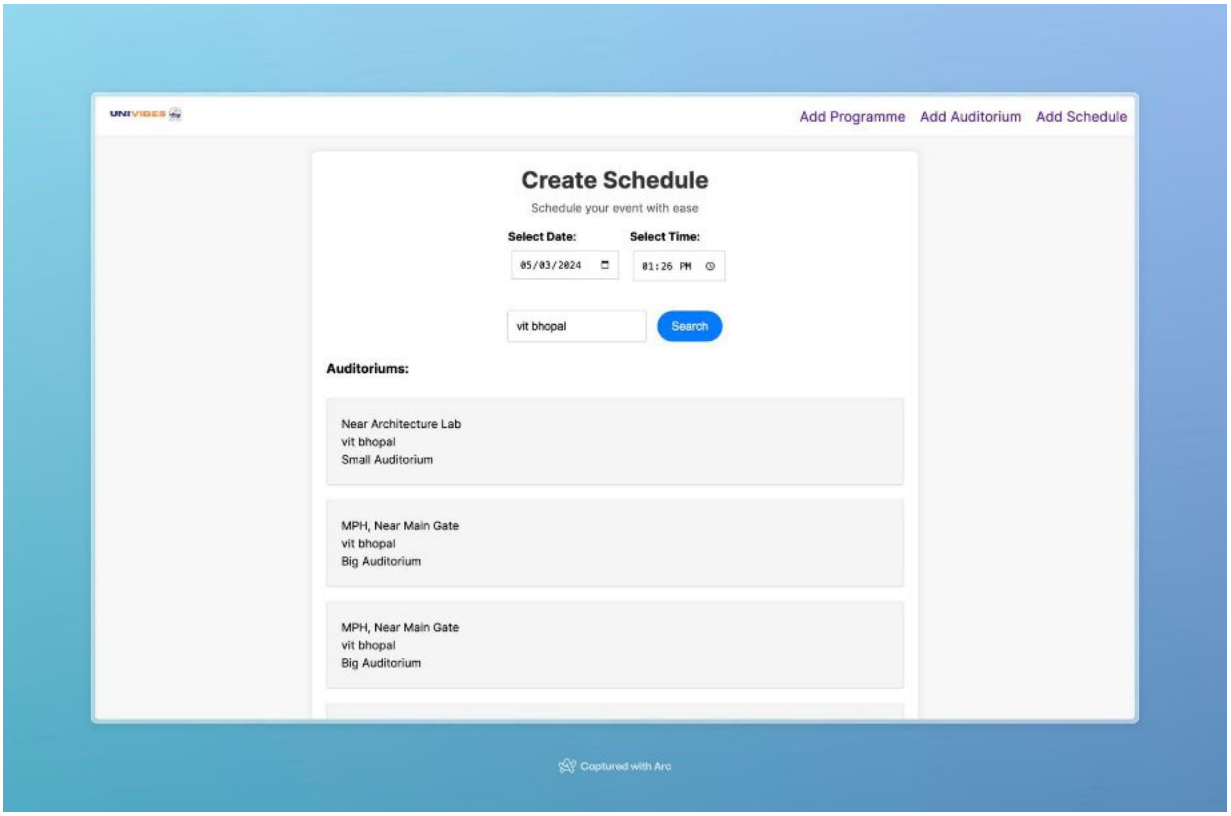
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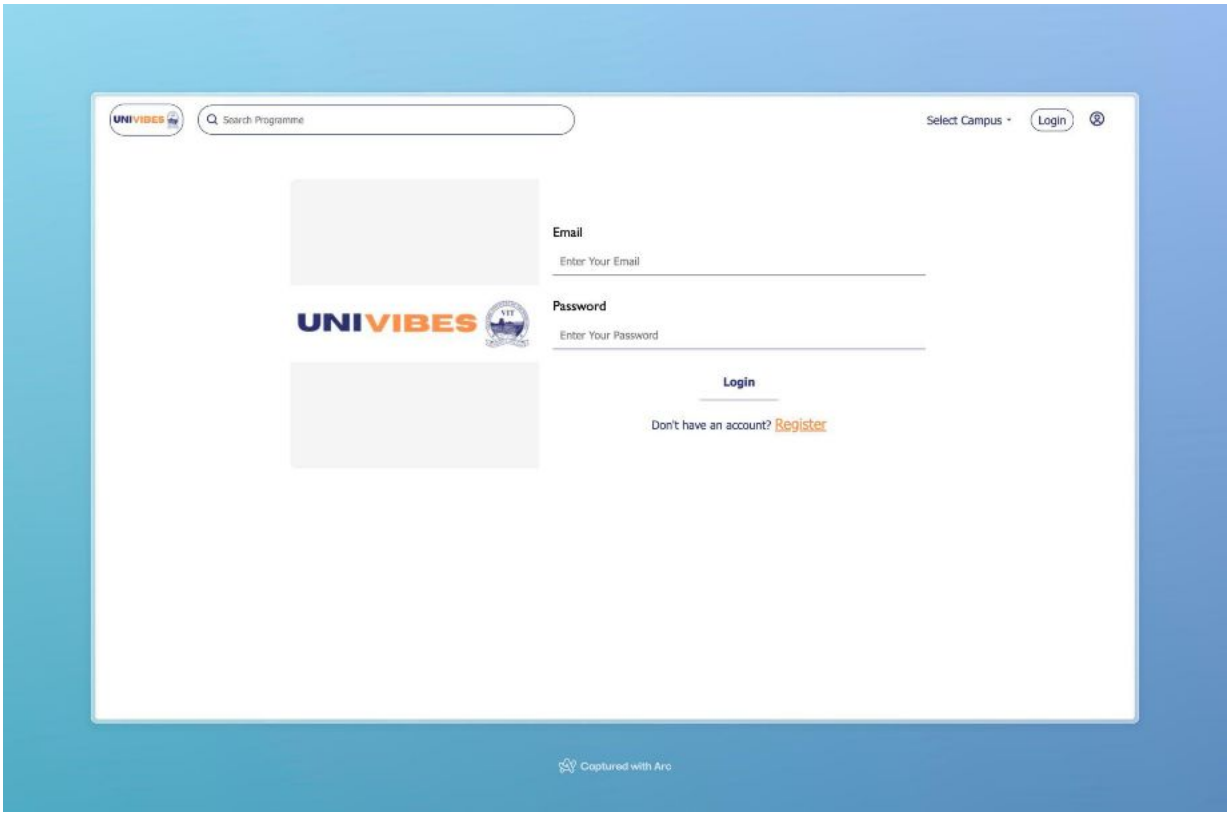
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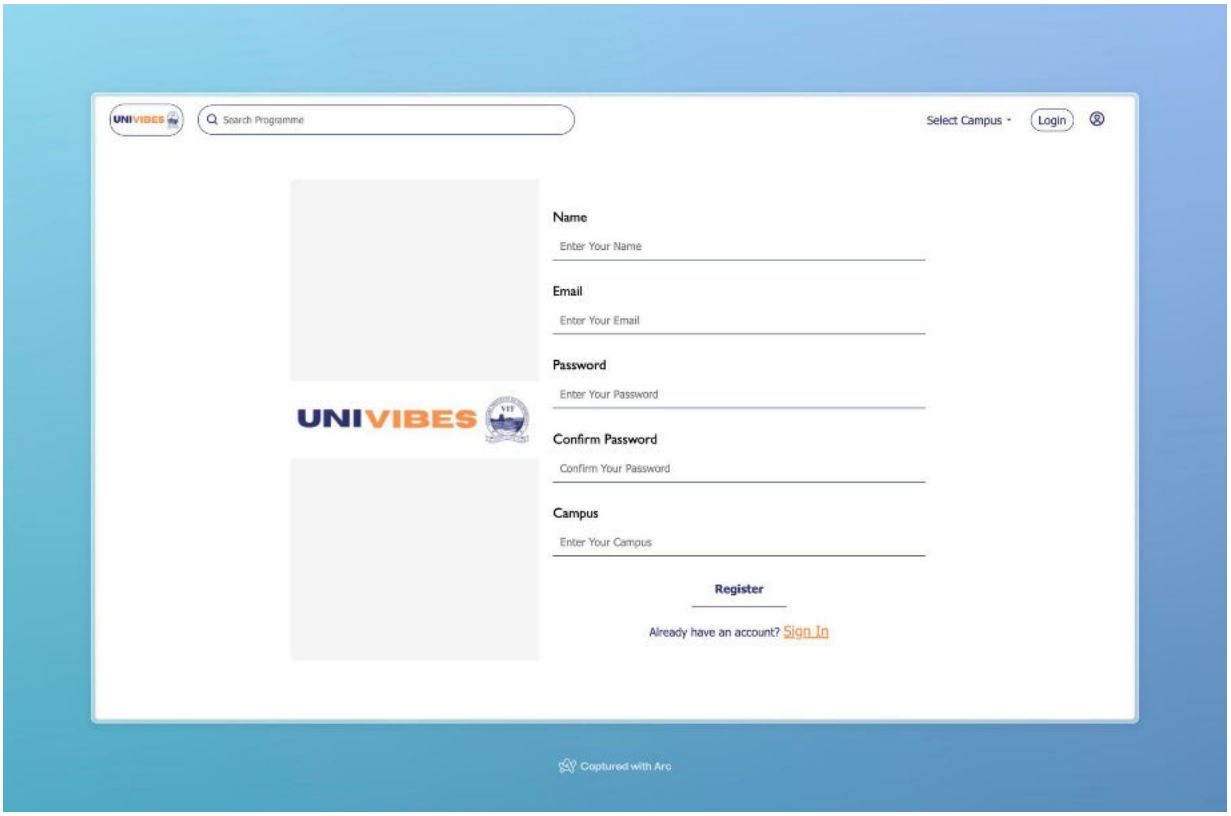
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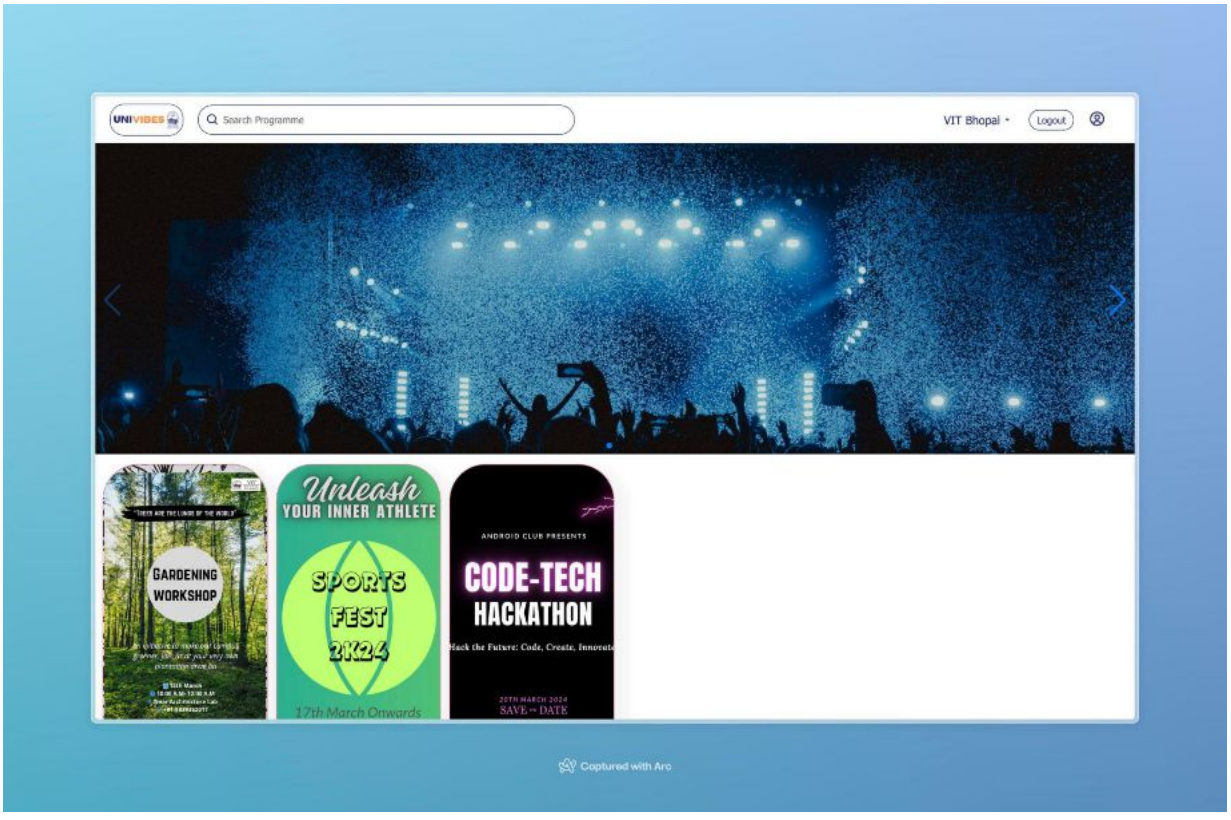
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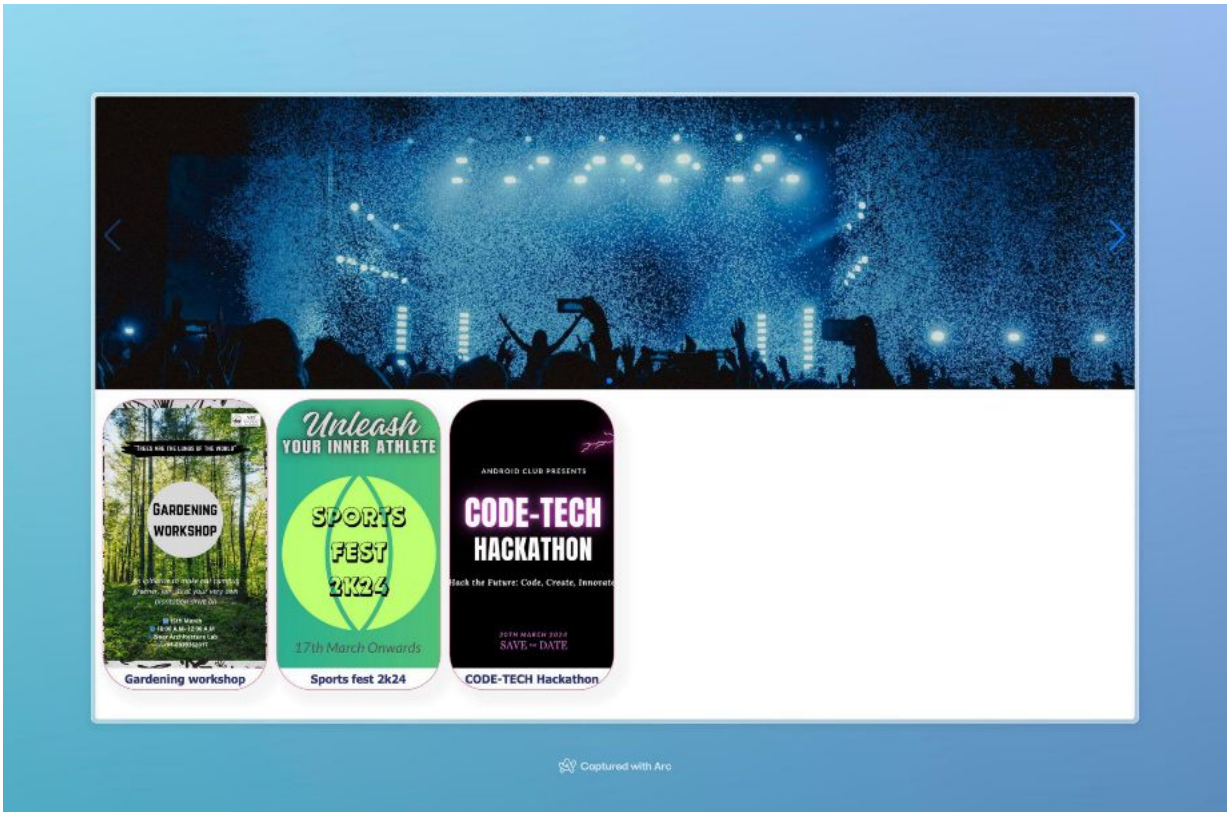
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CODE-TECH HACKATHON
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Gardening workshop
Sports fest 2k24
CODE-TECH Hackathon
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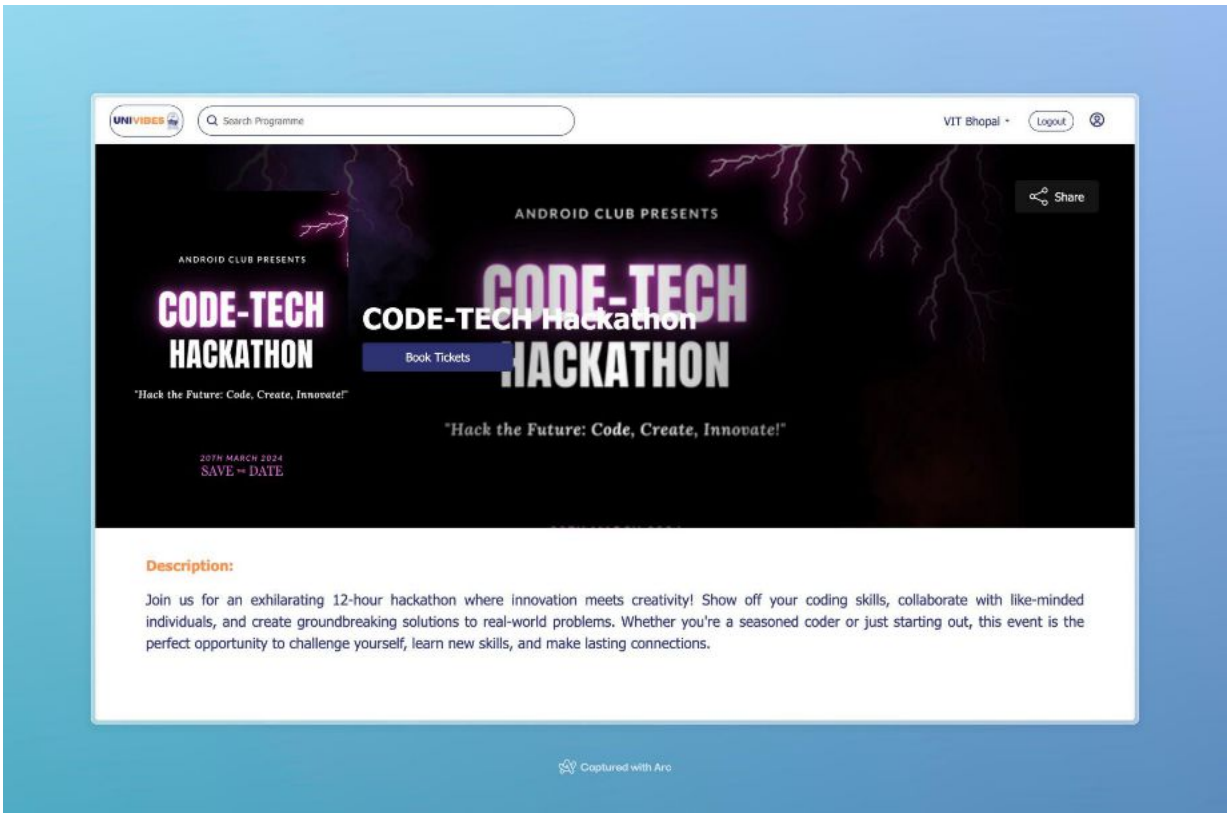
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SAVE the DATE
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Checkout other programs from this campus:

Gardening workshop

Sports fest 2k24

CODE-TECH Hackathon

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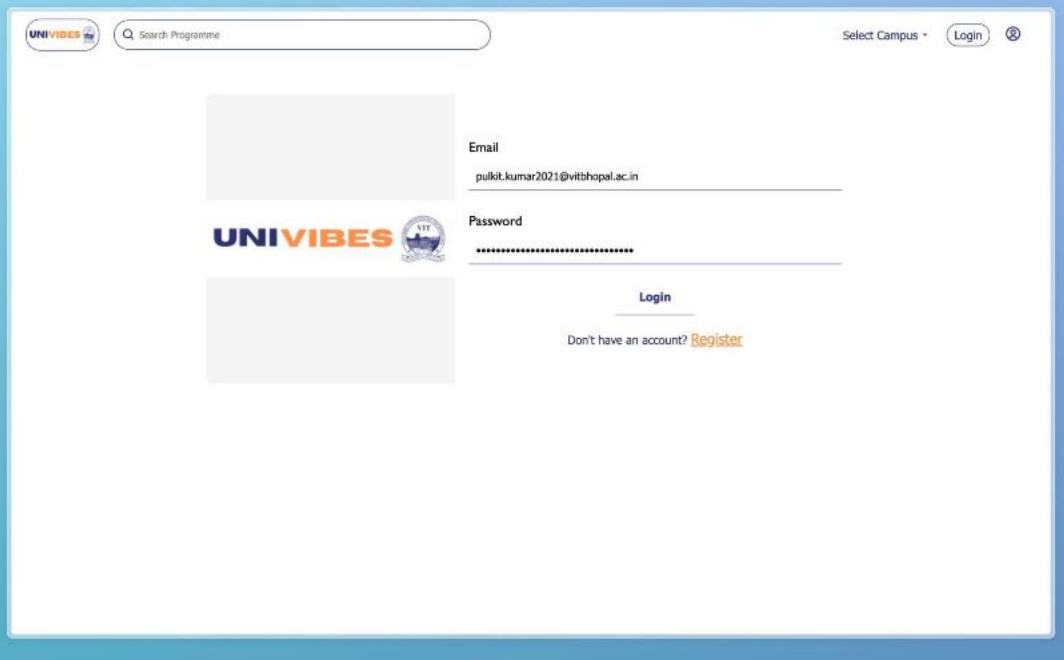

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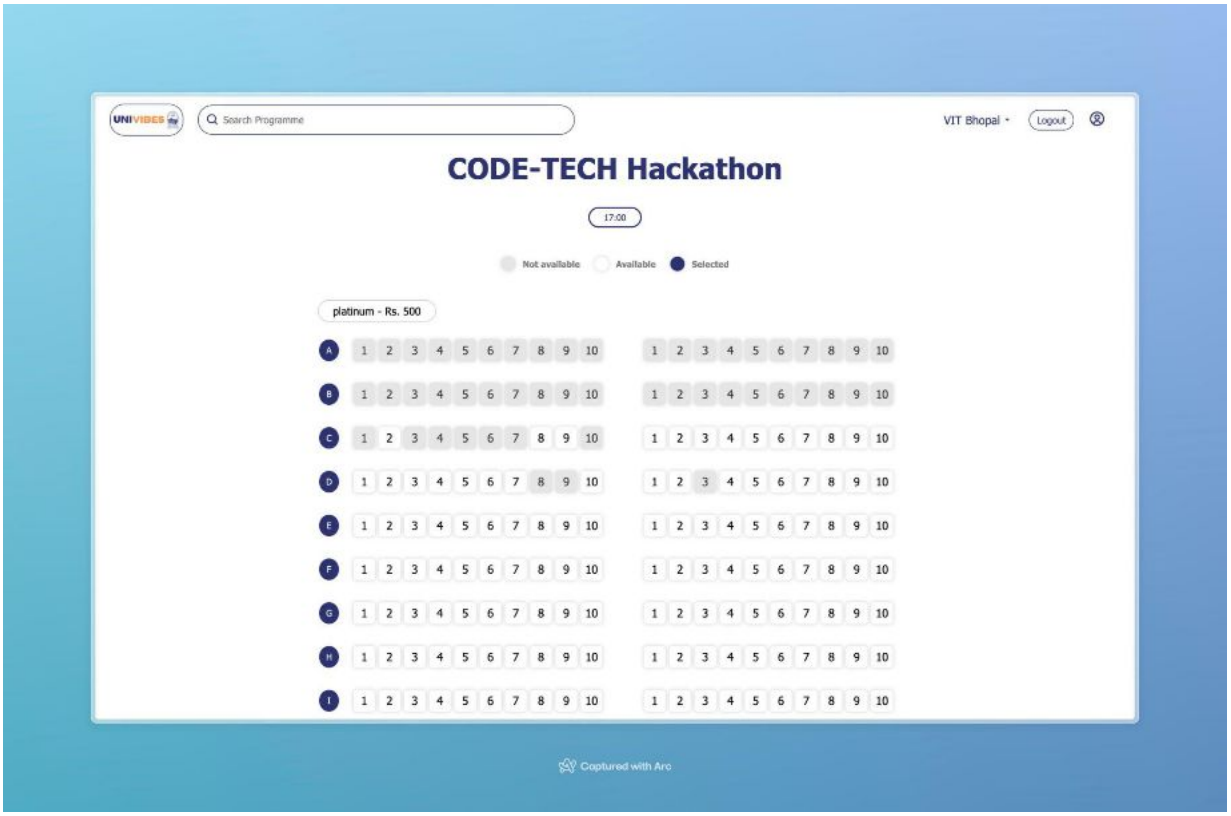
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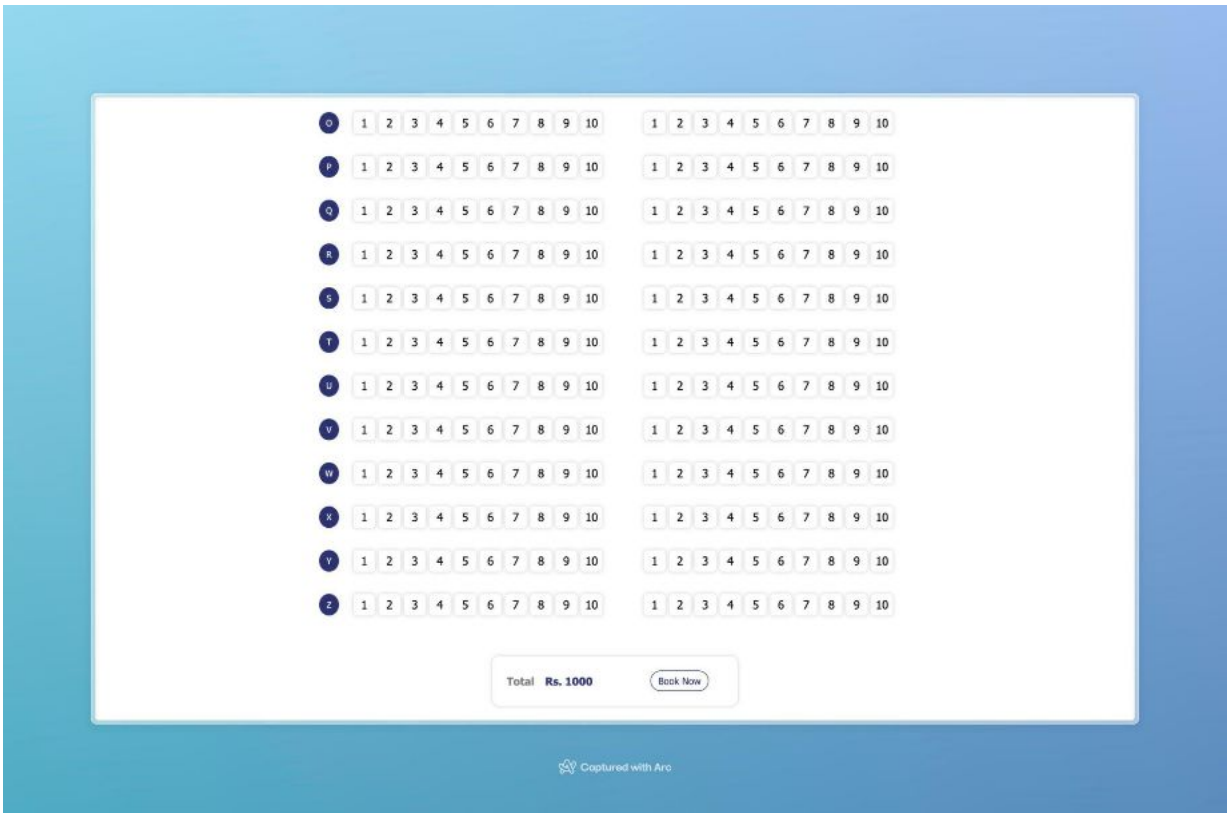
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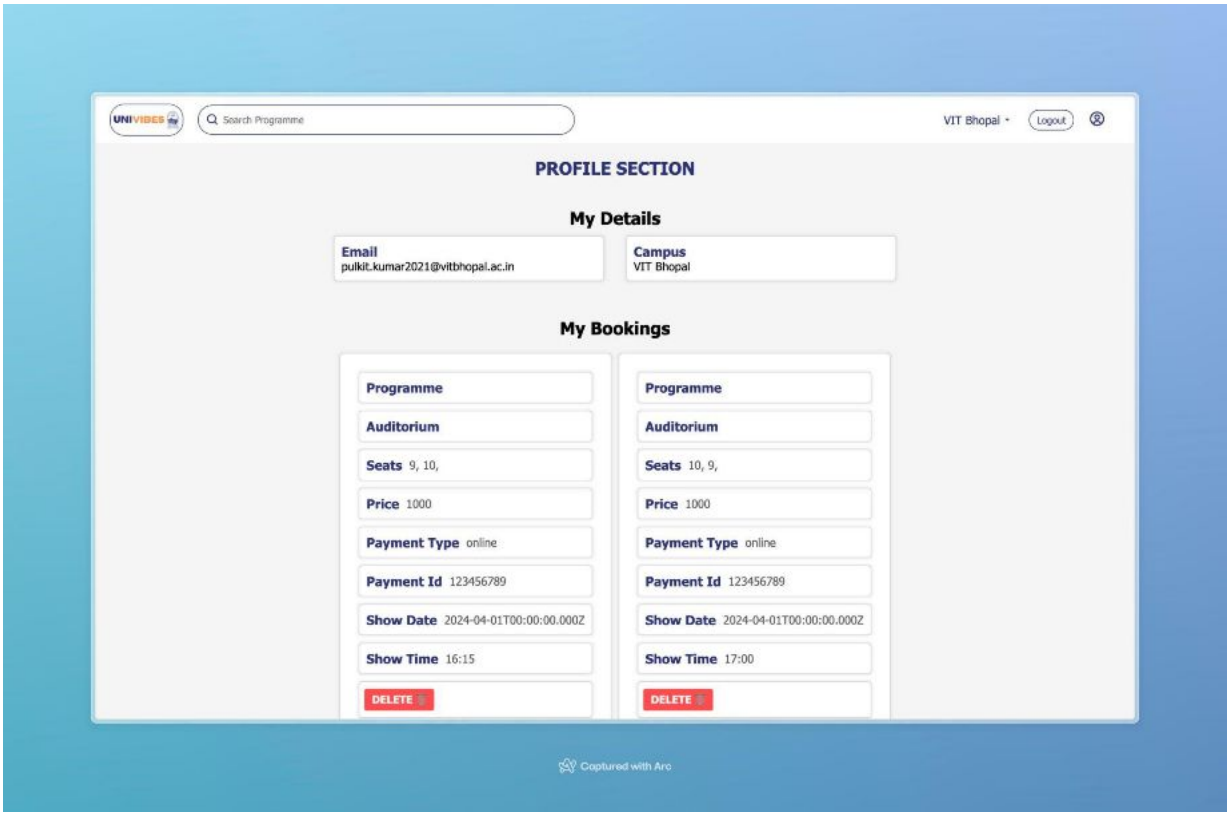
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VIT Bhopal
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Programme
Auditorium
Seats 9, 10,
Price 1000
Payment Type online
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Show Date 2024-04-01T00:00:00.000Z
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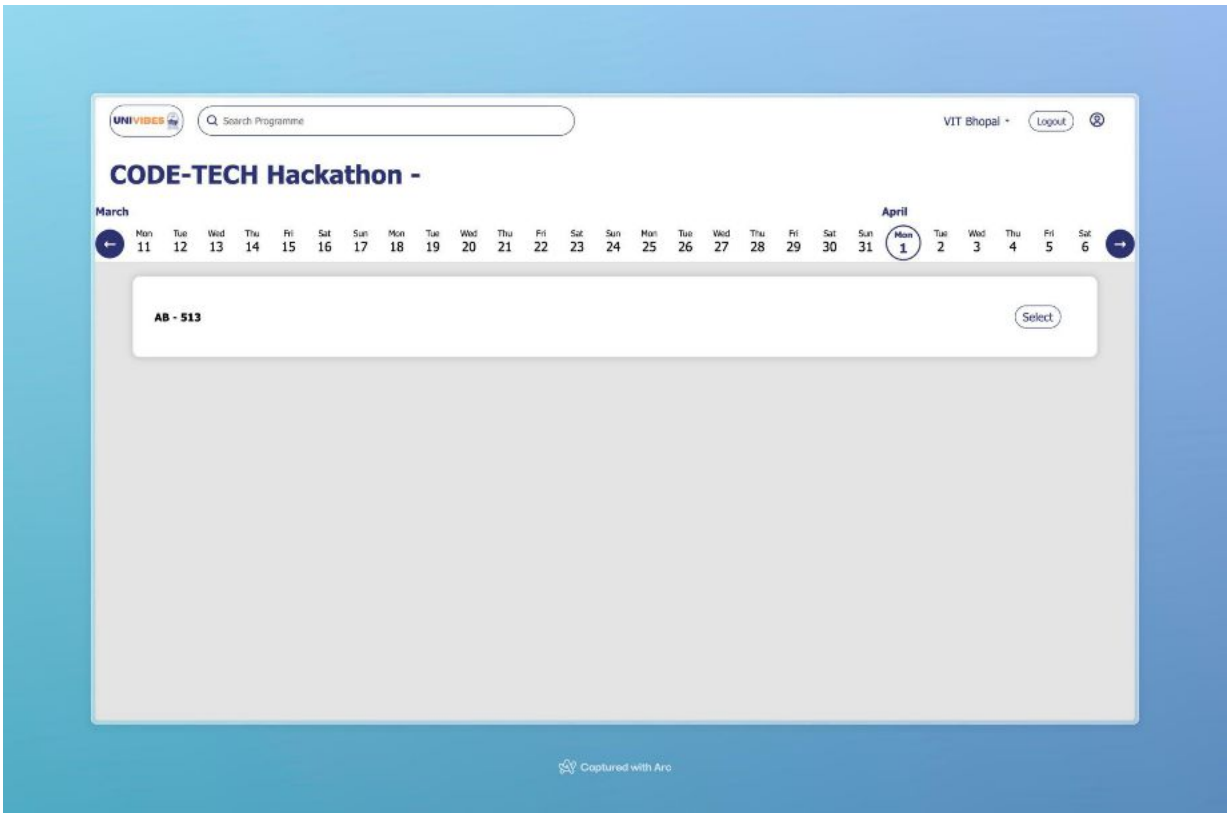
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CODE-TECH Hackathon -
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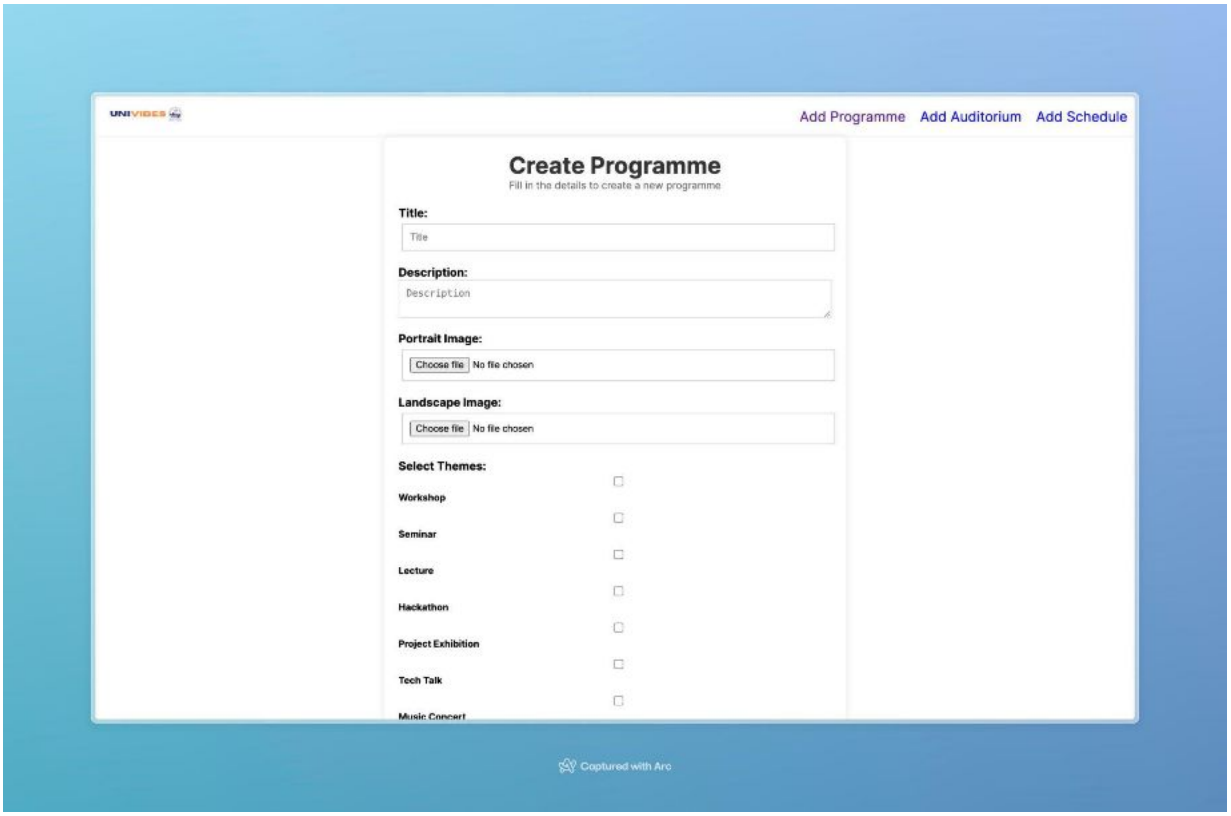
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Add Auditorium
Add Schedule
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Workshop
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Hackathon
Project Exhibition
Tech Talk
Music Concert
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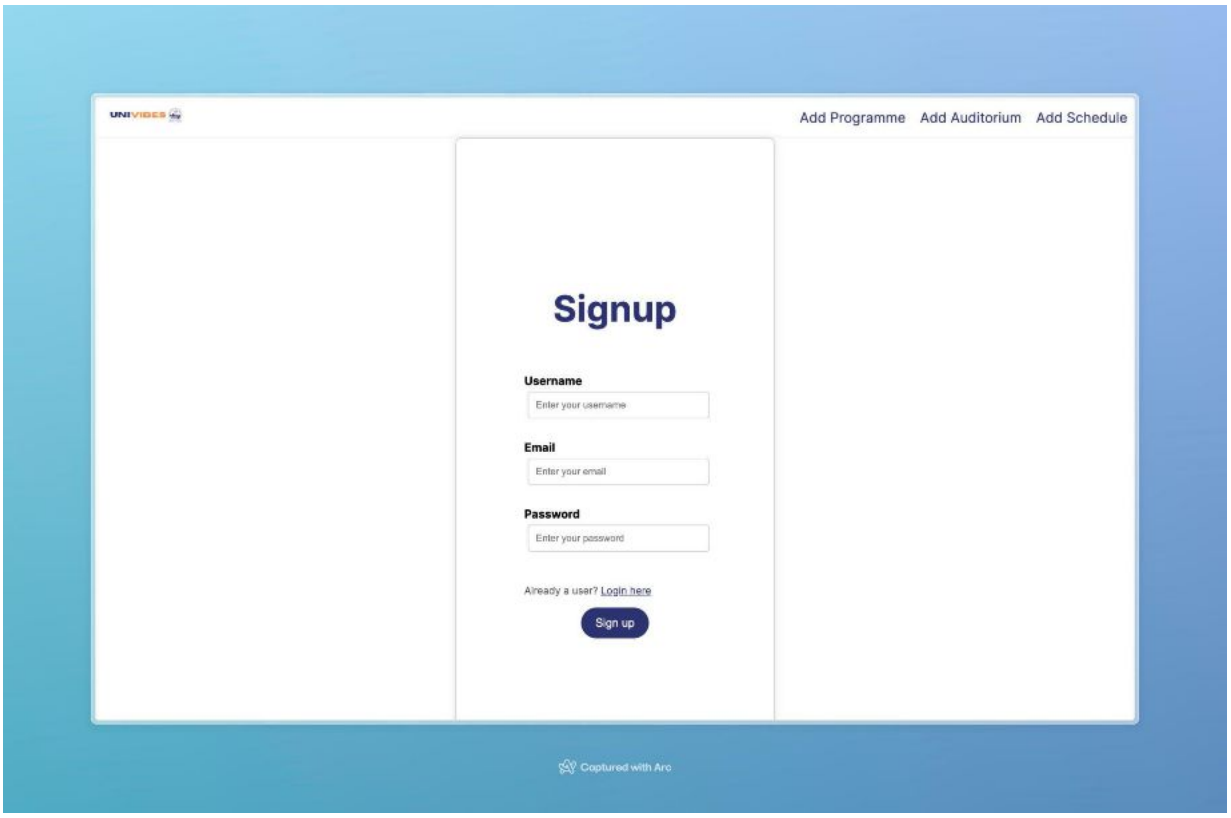
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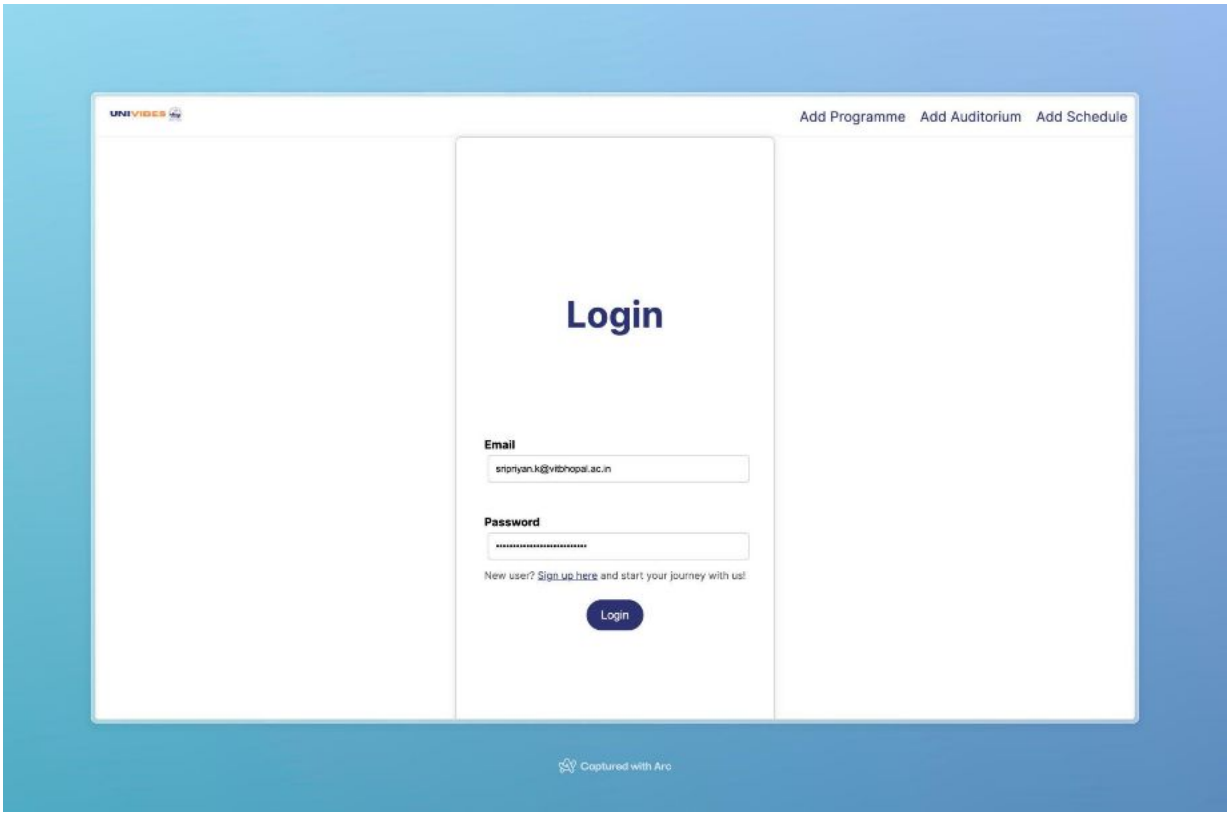
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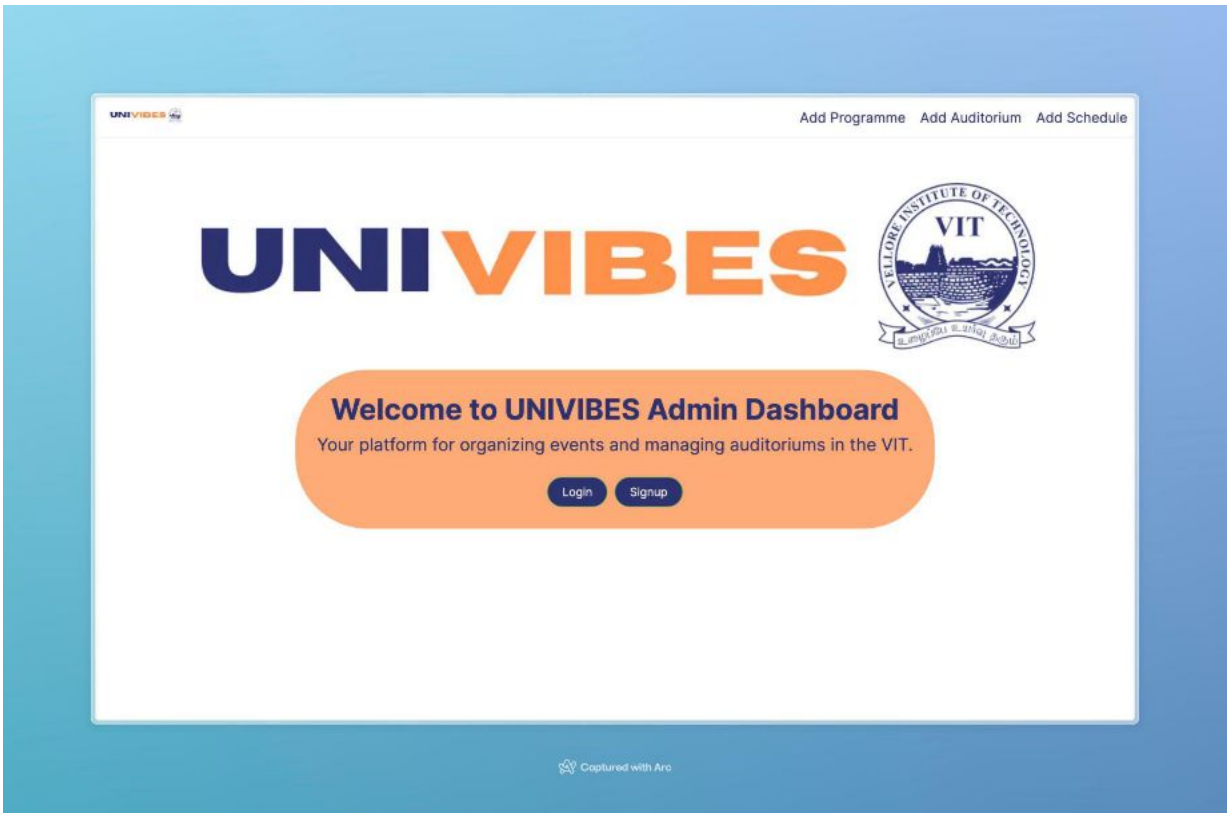
Add Programme
Add Auditorium
Add Schedule
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VIT
VELLORE INSTITUTE OF TECHNOLOGY
Welcome to UNIVIBES Admin Dashboard
Your platform for organizing events and managing auditoriums in the VIT.
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Signup
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UNIVIBES

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SEMINAR

UNIVIBES

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WORKSHOP

4. CONCLUSION

The Admin Panel is the control center for event organizers. It empowers administrators to create, manage, and schedule events, control venue details, and curate content displayed on the client side. This is where concert organization reaches new heights.

The admin panel allows the admin to:

- Create new events
- Enter event details like title, performers, categories, images etc.
- Schedule event date, time and location details
- Location Management
- Add new venues/locations
- Edit details of existing locations
- Event Scheduling
- Schedule timings and dates for events
- Set ticket pricing and seating layouts
- Content Management
- Control what events/information is shown on the client side
- Manage all content displayed on website

5. Reference:

1. International Research Journal of Engineering and Technology (IRJET)
   Volume: 07 Issue: 03 | Mar 2020
   Link: https://www.irjet.net/archives/V7/i3/IRJET-V7I3369.pdf

   → The framework for college event websites includes two modules: the admin module and the student module. In the admin module, administrators can log in using credentials like a username and password to access menu options such as viewing event data, event timetables, event performance graphs, and logout. Admins can upload data via Excel sheets, generate upcoming event timetables, and create performance graphs based on student participation in specific departments. On the other hand, the student module allows students to register by providing details like roll number, first name, last name, email, and password. Students can log in using their credentials and search for event data by name or description and filter by specific departments. They can view upcoming event timetables and performance graphs. The technologies used in this framework include HTML, CSS, JavaScript for the front end, and MySQL for the back end

2. International Journal of Science and Research (IJSR) ISSN: 2319-7064
   SJIF (2019): 7.583
   Link: https://www.ijsr.net/archive/v10i4/SR21418212751.pdf

→ The University Event Management System is designed to streamline event organization and scheduling within the university. It aims to address the challenges faced by the event management committee in maintaining and retrieving event data efficiently. The system provides a centralized event database for all university departments, allowing for easy retrieval of event schedules and generating reports as needed. It offers the ability to edit and delete event details and comprises two major user modules: the Department Module for creating, updating, and deleting events, and the Admin Module for generating event reports. Additionally, the system facilitates the retrieval of event history within specific time periods. It is also designed to be flexible for future developments, ensuring adaptability and scalability as the university's event management needs evolve.

3. International Journal of Creative Research Thoughts (IJCRT) ISSN: 2320-2882| Volume 10, Issue 6 June 2022 https://ijcrt.org/papers/IJCRT22A6460.pdf

→ This project is an Event management portal that is implemented on a website. This challenge offers characteristic of. remotely developing, removing, statistics retrieval, modifying of events and many different functions. This project is efficient in providing all the important access to both the system manager and admin and all the people related to a particular event. It gives organizer of the event access to see individuals and guest list. Also , one can be able to create or delete an event. The end user is able to view the created events and register for the same. The end user is able to view the created events and register for the same. This project will reduce paperwork and man power hence creating a hassle-free way of managing an event. Every event requirement will be traceable. One would be able to collect feedback from people and improve according to that feedback. It allows the organizer of the event to write a report after the completion of the event and also it allows the participants to view it.

4. Sachin AjayKumar Pasi, Prof. Altaf Taher Shah, Prof. Dr. Amol B. Kasture "A Study And Implementation of Event Management System Using Smartphone" IJRMMS Vol 6, Issue 5, 2018, ISSN: 2349-7300.

5. Amir Saleem, Davood Ahmed Bhat, Mr. Omar Farooq Khan " Review Paper on an Event Management System " IJCSMC, Vol. 6, Issue. 7, July 2017, pg.40 – 43.

6. Biodata

21BAS10023 Zahra Mundrawala

Currently a diligent third-year Aerospace Engineering student residing in the cleanest city of India, Indore, Madhya Pradesh. I bring a dynamic blend of skills and expertise to the table. I have delved deeply into the realms of graphic design software, mastering tools such as Fusion 360, AutoCAD, and SolidWorks, as well as expertise in propulsion thermodynamics, aircraft stress analysis and composite materials. With certifications in FUSION 360, AutoCAD for Mechanical Engineers, Soft Skills and Baja SAE, I am committed to staying at the forefront of Aerospace technologies, driving innovation, and solving complex challenges in the field. Apart from this, I have also had the privilege of working on reusable launch vehicles in my internship program at OmSpace, an experience that honed my skills and fueled my curiosity further. Additionally, I along with my team proudly undertook the ambitious task of constructing a rocket from scratch, this gave a boost to my practical knowledge.

My academic journey has been complemented by a keen interest in aircraft designing and navigation control systems, areas where I continuously seek to expand my knowledge and expertise. Beyond the realms of academia, I find solace and joy in the competitive yet graceful world of table tennis.

21BAS10090 Amber Tomar

A 3rd year student from Agra, Uttar Pradesh, pursuing a Bachelor's degree in Technology (B.Tech) with a specialization in Aerospace, I possess a strong foundation in both theoretical knowledge and practical applications within this cutting-edge domain. Alongside my academic pursuits, I have honed my skills in Aerospace Structure Development, showcasing proficiency in sectors of Stability and Efficiency.

I have attained certifications as an Workshop Machine Supervisor and Footwear Designer, underscoring my expertise in Technical Engineering Drawing and Designing. During my academic journey, I have completed internships at AMS Shoe Components and Kheria Air Base, where I gained valuable hands-on experience in real-world industry settings.

My passion for problem-solving extends beyond technical realms into the domains of management, creation of machine parts and designing efficient Aircraft Structures.

- 21BCE10113 Rahul Singh

Nearing graduation with a B.Tech in CSE Core at VIT Bhopal University, my journey began in Kota, India's coaching capital. This competitive atmosphere ignited my passion for exceeding expectations and tackling challenges head-on.

Java programming fuels my fire for software development, constantly expanding my skill set.

When I'm not coding, you'll find me on the court or field, playing cricket, basketball, or badminton. My love for these outdoor activities reflects my energetic personality and dedication to a holistic lifestyle

- 21BCE10666 Saksham Mathur

I'm in my pre-final year of a B.Tech in CSE Core at VIT Bhopal University, hailing from Agra. Java programming is my passion, further empowering me in software development. For hobbies, I enjoy outdoor sports like cricket, basketball, and badminton. My love for sports reflects my dynamic personality and commitment to well-being.

- 21BCE11283 Rohit Panjwani

I am currently in my pre-final year of a B.Tech in CSE Core at VIT Bhopal University.I hail from city Kota, renowned for its JEE/NEET coaching institutes. Growing up in this competitive environment has instilled in me a drive for excellence and a knack for overcoming challenges.

I have a profound interest in the Java programming language, which further extends my capabilities in software development.

Beside Academics I actively participate in college club events and have successfully organized several events for my club VITronix as Event Team head.

- 21BCE11602 Pulkit Kumar Mathur

I am Pulkit Kumar Mathur, pursuing B.Tech in Computer Science & Engineering at VIT Bhopal with 8.3 CGPA. Skilled in C++, Java, Python, HTML, CSS, JavaScript, React, TypeScript, NodeJS, MySQL, MongoDB, Django, and AWS. Developed projects like Algo Arena's Online Judge using Django and a Metaverse Portfolio showcasing React and 3D skills. Interned as a MERN Full Stack Developer at Ethnus, working on Node APIs, MongoDB, and React components. Certified AWS Cloud Practitioner. Achievements include Top 125 Smart India Hackathon 2022, AIR 55 Leetcode Contest, AIR 204 Codeforces Round, AIR 61 Codechef Contest. Interests are basketball, pyraminx solving, and dance.

- 21BCG10017 Praveen Jai Prakash

I, Praveen Jaiprakash, a prefinal year Game Development student, is passionate about 3D animation, VFX, and game design. With a keen eye for detail and creativity, I excel in creating immersive experiences. Skilled in 3D animation and VFX, I bring virtual worlds to life using cutting-edge tools. Beyond academics, I craft captivating CG arts as a hobby, honing my skills further. I actively seek opportunities to innovate and collaborate, blending technical prowess with artistic finesse. Driven by a relentless passion for storytelling and visual expression, I aspire to make a mark in the game development industry.

- 21BCG10022 Sanidhya Mishra

I am Sanidhya Mishra 21BCG10022 and hail from the capital city , Delhi .A driven and passionate student currently pursuing a Bachelor's degree in Computer Science with a specialization in Gaming Technology at VIT Bhopal. Eager to utilize technical skills and creative abilities to develop innovative and entertaining games for the community.

My expertise encompasses the entire spectrum of sound design, from conceptualization to implementation. I excel in capturing and manipulating sound elements to evoke emotions, enhance atmosphere, and create memorable auditory experiences. Whether designing intricate soundscapes for video games, composing compelling soundtracks for films, or engineering immersive audio environments for virtual reality, I approach each project with enthusiasm and a relentless pursuit of perfection.