A Project Report on

"Elixora-Interactive Web-based Skin Care and Makeup Advisor."

Submitted in partial fulfillment of the requirements for the award
of the degree of

Third Year Engineering

in

Information Technology

by

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Under the Guidance of

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UNIVERSITY OF MUMBAI

Academic Year 2025-2026

CERTIFICATE

This is to certify that the project entitled ***"APSIT DevOps Club: A Web Platform for interacting Students through Collaboration and Innovative Activities."*** submitted by ***"Shravani Khanvilkar" (23104220),"Rujuta Gujar" (23104083),"Samiksha Avhad" (23104207),"Anushka kangane" (23104144)*** for the partial fulfillment of the requirement for award of a degree ***Bachelor of Engineering*** in ***Information Technology***,to the University of Mumbai,is a bonafide work carried out during academic year 2025-2026.

Prof. Shafaque Syed Guide	Dr. Kiran Deshpande Guide

External Examiner	Internal Examiner
1.	1.

Place:A.P.Shah Institute of Technology, Thane
Date:

Acknowledgement

This project would not have come to fruition without the invaluable help of our guide **Mr. Vishal Badgujar**. Expressing gratitude towards our HoD, **Dr. Kiran Deshpande**, and the Department of Information Technology for providing us with the opportunity as well as the support required to pursue this project. We would also like to thank our project coordinators **Ms. Sonal Jain** and **Ms. Shafaque Fatma Syed** who gave their valuable suggestions and ideas when we were in need of them. We would also like to thank our peers for their helpful suggestions.

Contents

Abstract

Elixora is a sophisticated, interactive, web-based recommendation system designed to deliver highly personalized skincare and makeup product suggestions. Understanding that individual beauty requirements vary widely in terms of skin type, specific concerns, personal goals, and budget, Elixora employs a comprehensive yet user-friendly questionnaire to collect critical user information, including skin characteristics, targeted skincare issues, makeup preferences, objectives, and financial constraints. Leveraging this data, the system generates precise and tailored product recommendations while simultaneously offering features for manual product search, curated list exploration, and in-depth comparison of items based on price, ingredients, brand credibility, and user reviews.

By integrating advanced preference analysis, intelligent filtering algorithms, and an intuitive, interactive interface, Elixora streamlines the often complex process of choosing suitable beauty products. The system enhances user decision-making by providing relevant, effective, and affordable options that align with individual needs, thereby improving satisfaction and confidence in online beauty shopping. Its adaptive, user-focused approach ensures an engaging, efficient, and highly personalized experience, bridging the gap between the expansive array of available products and the unique requirements of each consumer.

Moreover, Elixora exemplifies the transformative potential of intelligent web-based systems in lifestyle and personal care domains. By combining technological sophistication with practical usability, it not only simplifies product discovery but also empowers users to make informed choices, promoting accessibility and inclusivity in beauty shopping. The platform demonstrates how interactive, data-driven recommendation systems can revolutionize the consumer experience, setting a new standard for personalized skincare and makeup guidance in the digital era.

Chapter 1

Introduction

Elixora is an advanced, interactive web-based recommendation system designed to help users effortlessly discover skincare and makeup products that are tailored to their unique needs and preferences. Recognizing that everyone's skin type, beauty goals, and budget are different, Elixora provides a smart solution for personalized beauty shopping.

The system works by asking users to fill out a simple and intuitive questionnaire. This questionnaire gathers essential information such as skin type (e.g., oily, dry, combination, sensitive), specific skincare concerns (e.g., acne, aging, dryness, pigmentation), makeup preferences (e.g., foundation type, color choices), and individual goals (e.g., hydration, anti-aging, brightening). Additionally, users can input their budget constraints, allowing Elixora to filter and suggest products that are both effective and affordable.

Beyond recommendations, Elixora offers users the flexibility to search for products manually, explore curated lists, and compare items based on ratings, ingredients, and price points. By integrating preference inputs, budget filters, and web-wide product searches, Elixora simplifies the beauty shopping experience, making it smarter, more efficient, and highly personalized.

1.1 Purpose

The purpose of the website is to simplify and personalize the process of selecting skincare and makeup products for individual users. In the vast beauty market, customers often struggle to find products that match their unique skin types, preferences, and budget. Many products are marketed with broad claims that do not account for individual differences, leading to confusion and ineffective purchases. Elixora addresses this problem by using a simple questionnaire and preference inputs to understand the user's skin type, concerns, makeup goals, and budget. Based on these inputs, it provides smart product recommendations by filtering options available across the web, ranging from affordable drugstore products to high-end premium brands. The system not only suggests suitable products but also enables users to search and explore products independently, making beauty shopping smarter, faster, and more informed. Ultimately, Elixora empowers users to make well-informed decisions, improving their skincare and makeup routines while ensuring convenience and personalization.

1.2 Problem Statement

With countless skincare and makeup products available, choosing the right ones can be overwhelming. People have different skin types such as oily, dry, or sensitive that require specific products. The market offers a huge variety of options with similar claims like anti-aging, moisturizing, or acne control, making it hard to know what truly works. On top of that, products range from affordable to luxury, adding budget concerns. Without clear guidance, many rely on trial and error or unreliable reviews, which may not suit their individual needs, leading to frustration and poor choices..

1.3 Objectives

- 1. Personalized Recommendations Through Easy Inputs : Users input their skin type, preferences, and budget through an easy questionnaire. The system uses smart filters to generate tailored product recommendations.

- 2. Discover Products Matched to Your Unique Needs : Elixora suggests skincare and makeup products based on individual requirements. It ensures recommendations match skin type, goals, and budget.

- 3. Simplified and Confident Shopping Experience: The system simplifies product search by providing relevant suggestions. Users can shop without confusion or guesswork.

- 4. Smart Personalized Recommendation System : An intelligent system recommends the most suitable products for each user. It makes beauty shopping smarter and highly personalized.

1.4 Scope

- 1. Specialized Focus on Skincare and Makeup The system is dedicated to recommending skincare and makeup products. It understands the unique needs of beauty and skincare routines. This ensures more accurate and useful suggestions.

- 2. Reliable and Efficient Shopping Platform Offers a trustworthy platform for discovering beauty products quickly. Saves time by eliminating the need to browse countless options. Users get smart recommendations in just a few steps.

- 3. Personalized Filtering for Better Results Users can filter products by budget, brand, category, and personal preferences. This helps narrow down options to exactly what they need. Making the recommendation process highly relevant and efficient.

Chapter 2

Literature Review

Elixora system is a personalized web-based platform designed to help users discover skincare and makeup products tailored to their individual needs. It collects user inputs such as skin type, specific skincare or makeup preferences, and budget through a simple, intuitive questionnaire. Leveraging artificial intelligence and machine learning, Elixora processes this information to generate accurate and relevant product recommendations. Similar to recent research in AI-driven beauty technologies, the system can use techniques like computer vision and deep learning models to assess skin conditions such as acne, dryness, or oiliness, enabling precise matching of products to user requirements. Additionally, content-based filtering, which analyzes product ingredients and aligns them with individual profiles, ensures that suggested products are safe, effective, and suitable for each user.

Beyond personalized recommendations, Elixora emphasizes user trust, transparency, and engagement. By incorporating explainable AI, the system provides users with clear reasons for every recommendation, such as ingredient benefits or suitability for specific skin concerns, building confidence in the suggested products. It can also integrate real-time feedback, allowing users to rate and review products, which helps refine and improve future recommendations. Combining AI-driven analysis, personalized filtering, ingredient-based evaluation, and adaptive learning, Elixora creates a reliable, efficient, and intelligent platform. It simplifies beauty shopping, reduces confusion and guesswork, and enhances the overall user experience by providing smarter, more informed product choices tailored to individual needs.

]

Chapter 3

Project Design

3.1 Features and Functionality

- 1. Search and Explore Products

  Browse skincare and makeup products across multiple categories. Filter by skin type, brand, or concern.

- 2. Personalized Product Recommendations

  Recommendation engine suggests products tailored to each user. Uses collaborative and content-based filtering to match skin type, preferences, and goals.

- 3. Questionaire

  The questionnaire is a core component of Elixora that enables the system to provide personalized skincare and makeup recommendations. It collects essential information from the user in a simple and intuitive format.

- 4. User Feedback

  The user feedback feature is an essential part of Elixora, designed to improve recommendation accuracy and personalization over time. After trying the suggested skincare or makeup products, users can provide ratings, reviews, and comments about their experience.

- 5. Educational Insights

  Provides information on product ingredients and their benefits. Helps users make informed skincare and makeup decisions.

- Student Connectivity:

  The Student Connectivity feature allows students to easily collaborate and stay connected with the DevOps club. Through integrated social media channels, students can also directly reach out to the DevOps team, enhancing peer-to-peer interaction, receiving guidance from mentors, and staying actively engaged with projects and events.

3.2 System Architecture

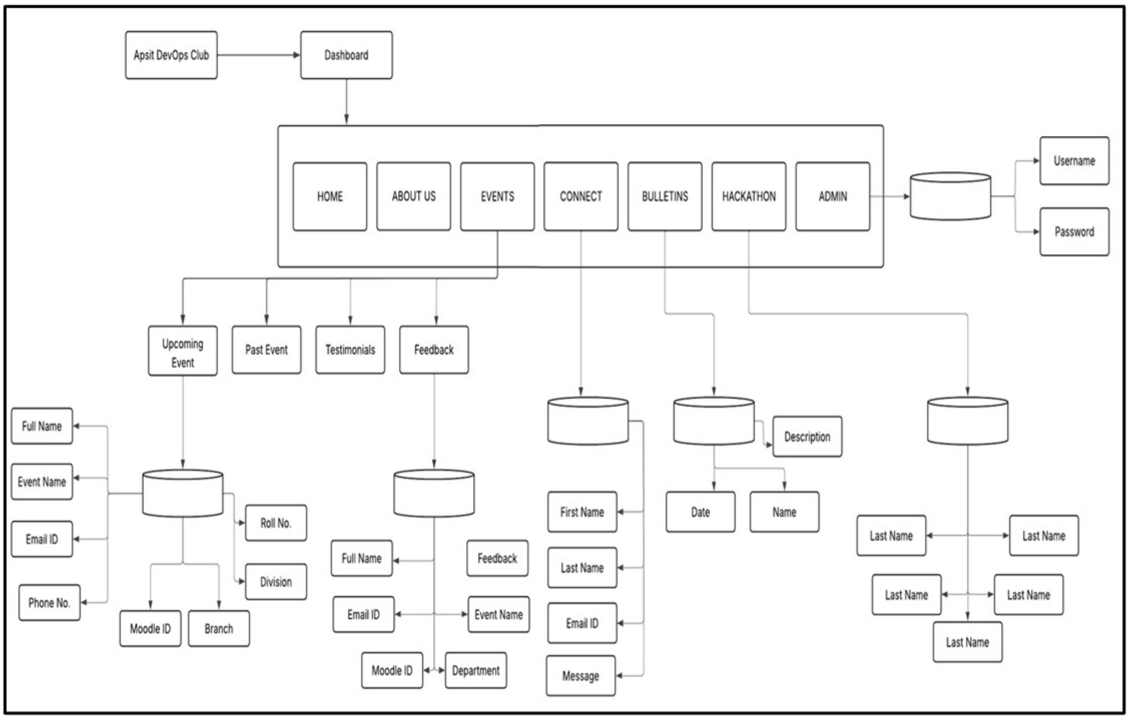


Figure 3.1: System Architecture of APSIT DevOps Club

3.3 DFD (Data Flow Diagram)

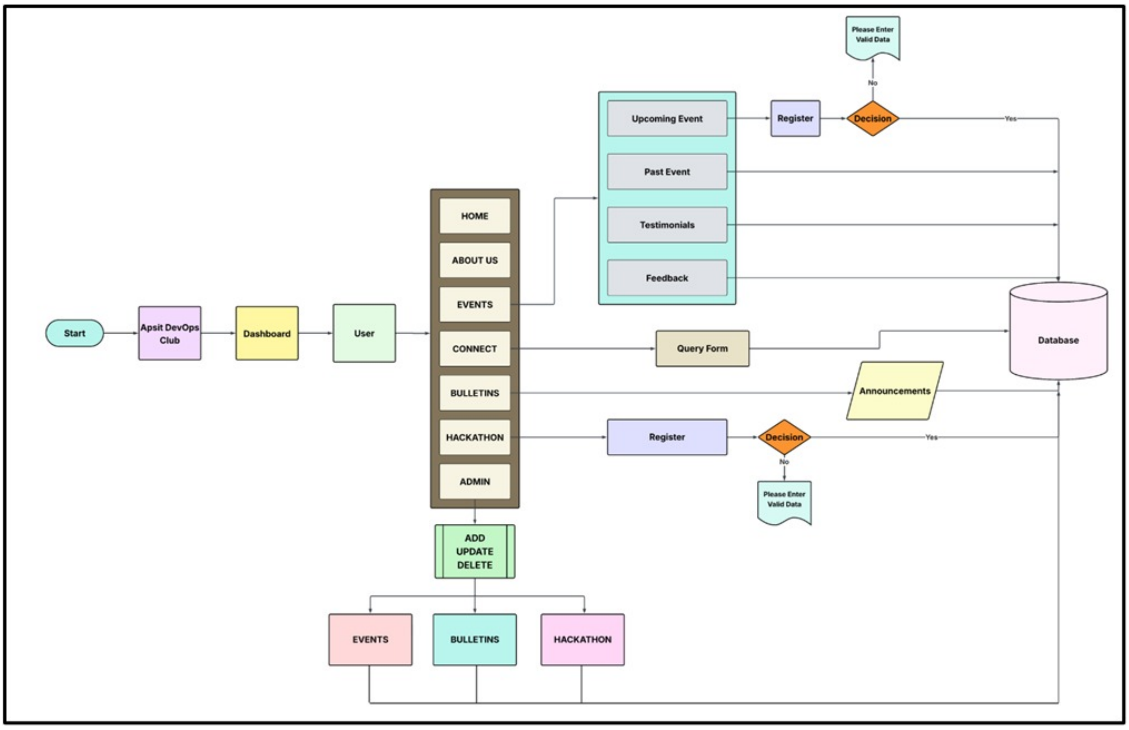


Figure 3.2: Flow Diagram of APSIT DevOps Club

3.4 Use Case Diagram

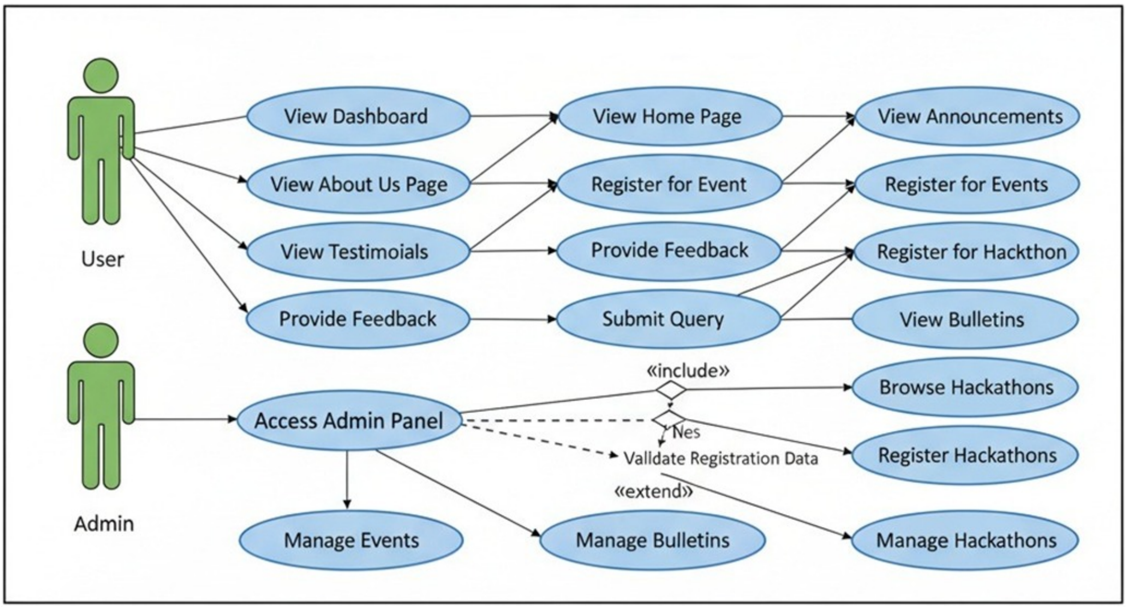


Figure 3.3: Use Case Diagram of APSIT DevOps Club

Chapter 4

Technical Specification

4.1 Front-End (Client-Side)

Core Technologies:

HTML5 : Used for structuring the web pages and content.

CSS3 : Used for styling the user interface and overall design.

JavaScript (ES6+) : Used for creating dynamic and interactive user experiences.

React JS : A component-based library used to build the user interface (UI) efficiently.

Tailwind CSS : Employed for creating a responsive and custom design system.

Fetch API : Used for handling HTTP requests with the Firebase backend services.

4.2 Back-End (Server-Side)

Backend as a Service (BaaS):

Google Firebase : Used as the primary backend platform.

Firebase Firestore Database : Utilized as the NoSQL cloud database to store Data.

Firebase Authentication : Handels user registration, login, and session management.

4.3 Development, Operations and Deployment

Hosting Environment

College Server : The final application will be deployed on college server infrastructure.

Git and GitHub : Used for code management, tracking changes, and collaboration.

GitHub Actions : Configured to automate the build and testing processes.

4.4 Development Tools

IDE and Managers

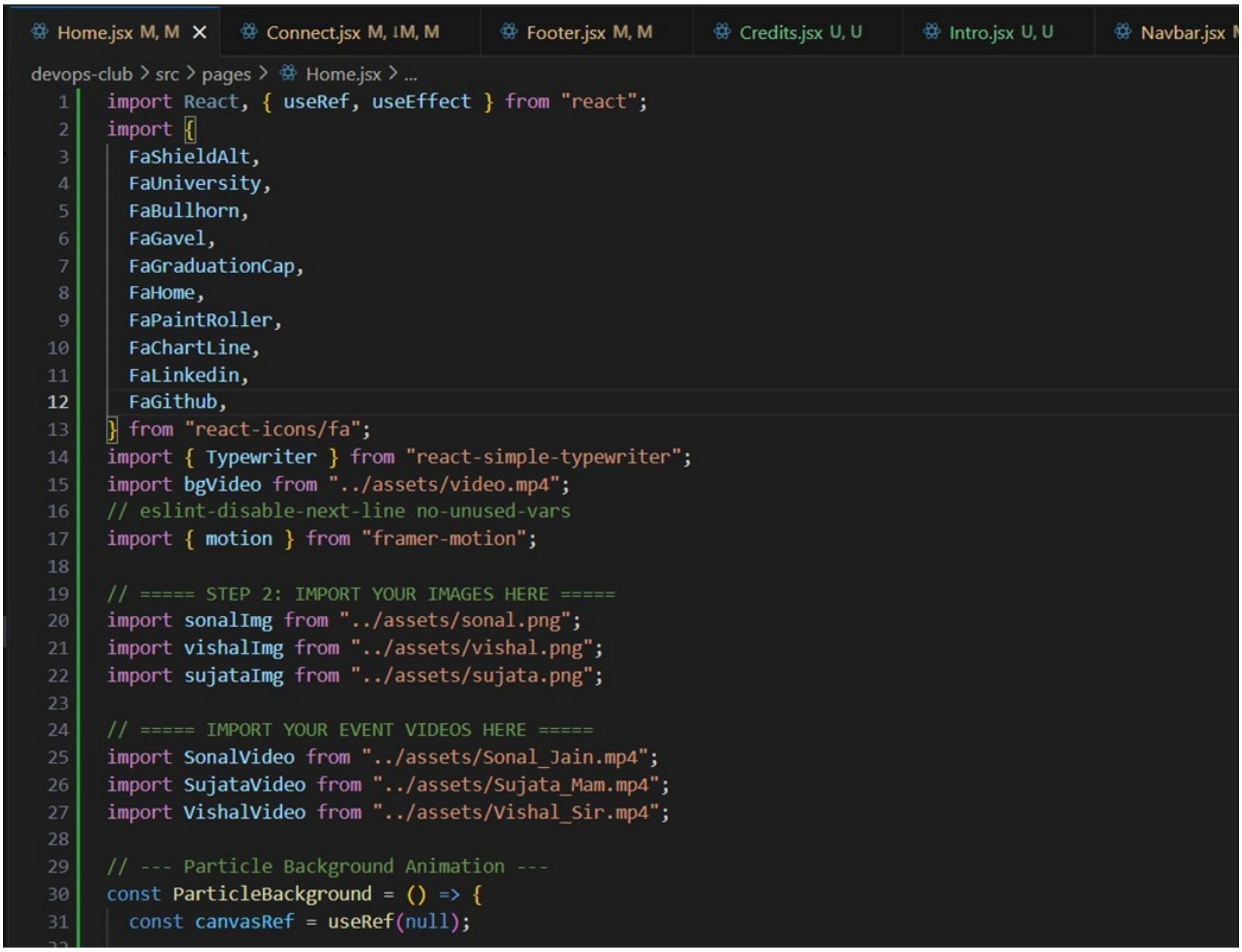
Visual Studio Code : The primary code editor used for development.

npm : Used for managing project dependencies and scripts.

Chapter 5

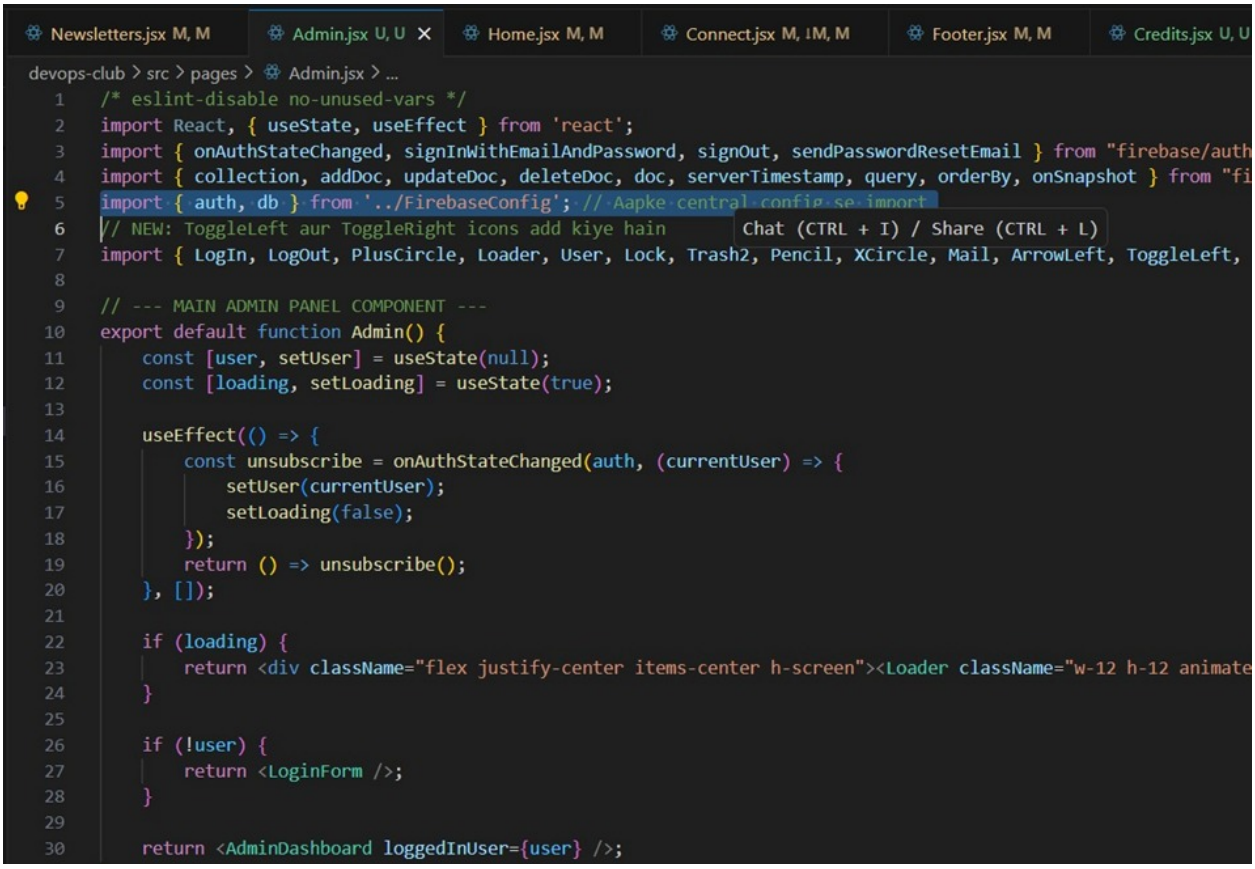
Project Implementation

The implementation phase involves transforming the planned design into a working system through coding, integration, and testing.The following screenshots present key portions of the code, along with explanations of their purpose and role in the overall system.



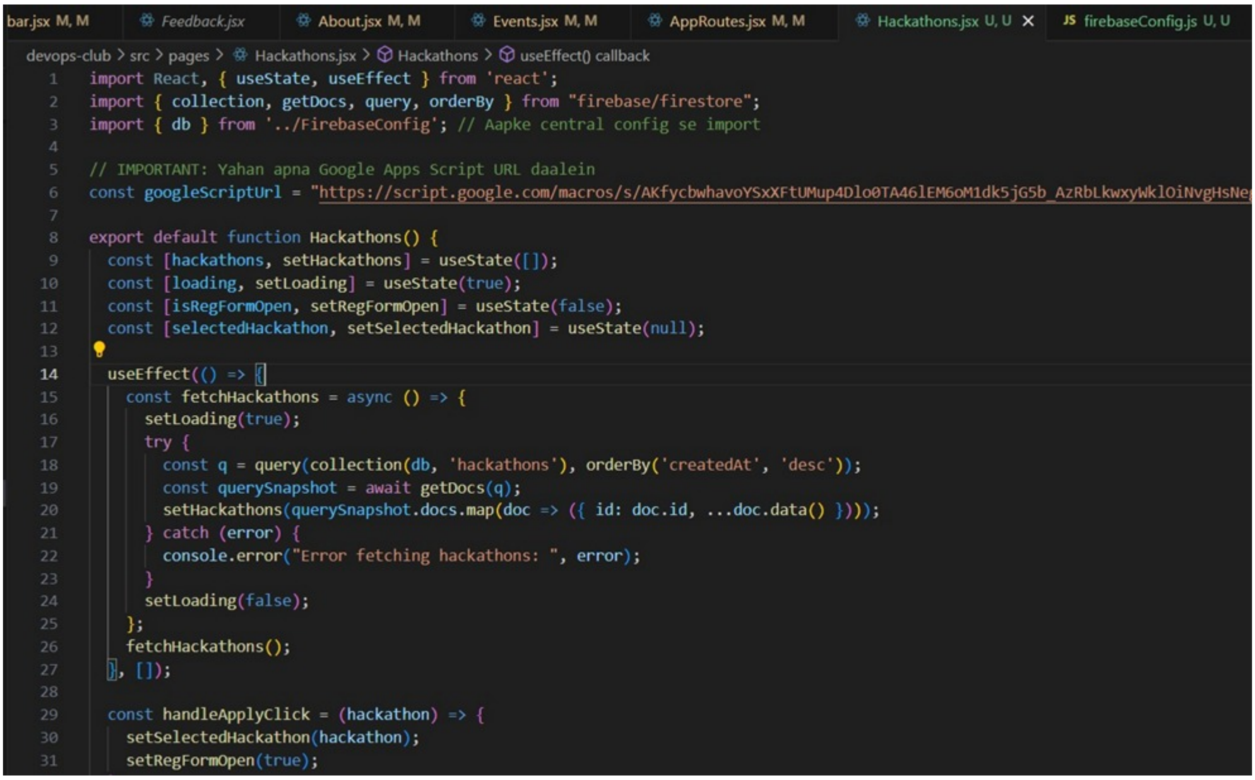
```jsx
import React, { useRef, useEffect } from "react";
import {
  FaShieldAlt,
  FaUniversity,
  FaBullhorn,
  FaGavel,
  FaGraduationCap,
  FaHome,
  FaPaintRoller,
  FaChartLine,
  FaLinkedin,
  FaGithub,
} from "react-icons/fa";
import { Typewriter } from "react-simple-typewriter";
import bgVideo from "../assets/video.mp4";
// eslint-disable-next-line no-unused-vars
import { motion } from "framer-motion";

// ===== STEP 2: IMPORT YOUR IMAGES HERE =====
import sonalImg from "../assets/sonal.png";
import vishalImg from "../assets/vishal.png";
import sujataImg from "../assets/sujata.png";

// ===== IMPORT YOUR EVENT VIDEOS HERE =====
import SonalVideo from "../assets/Sonal_Jain.mp4";
import SujataVideo from "../assets/Sujata_Mam.mp4";
import VishalVideo from "../assets/Vishal_Sir.mp4";

// --- Particle Background Animation ---
const ParticleBackground = () => {
  const canvasRef = useRef(null);
```

Figure 5.1: Home Page



```
/* eslint-disable no-unused-vars */
import React, { useState, useEffect } from 'react';
import { onAuthStateChanged, signInWithEmailAndPassword, signOut, sendPasswordResetEmail } from "firebase/auth
import { collection, addDoc, updateDoc, deleteDoc, doc, serverTimestamp, query, orderBy, onSnapshot } from "fi
import { auth, db } from '../FirebaseConfig'; // Aapke central config se import
// NEW: ToggleLeft aur ToggleRight icons add kiye hain
import { LogIn, LogOut, PlusCircle, Loader, User, Lock, Trash2, Pencil, XCircle, Mail, ArrowLeft, ToggleLeft,

// --- MAIN ADMIN PANEL COMPONENT ---
export default function Admin() {
    const [user, setUser] = useState(null);
    const [loading, setLoading] = useState(true);

    useEffect(() => {
        const unsubscribe = onAuthStateChanged(auth, (currentUser) => {
            setUser(currentUser);
            setLoading(false);
        });
        return () => unsubscribe();
    }, []);

    if (loading) {
        return <div className="flex justify-center items-center h-screen"><Loader className="w-12 h-12 animate
    }

    if (!user) {
        return <LoginForm />;
    }

    return <AdminDashboard loggedInUser={user} />;
```

Figure 5.2: Admin Panel

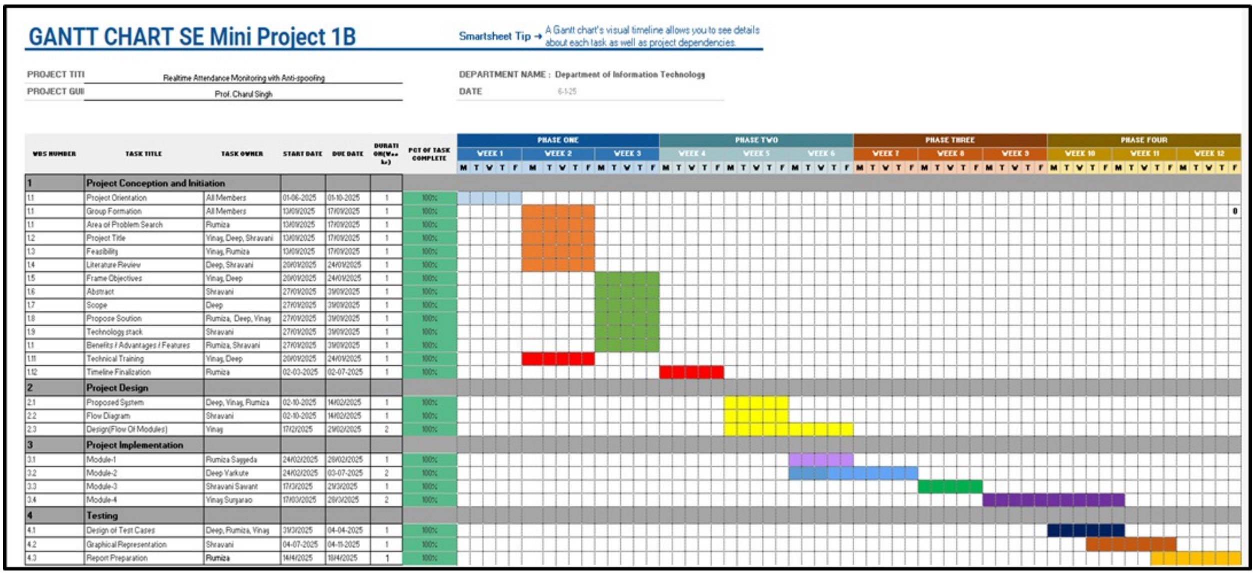

bar.jsx M, M
Feedback.jsx
About.jsx M, M
Events.jsx M, M
AppRoutes.jsx M, M
Hackathons.jsx U, U
JS firebaseConfig.js U, U
devops-club > src > pages > Hackathons.jsx > Hackathons > useEffect() callback

```
import React, { useState, useEffect } from 'react';
import { collection, getDocs, query, orderBy } from "firebase/firestore";
import { db } from '../FirebaseConfig'; // Aapke central config se import

// IMPORTANT: Yahan apna Google Apps Script URL daalein
const googleScriptUrl = "https://script.google.com/macros/s/AKfycbwhavoYSxXFtUMup4Dlo0TA46lEM6oM1dk5jG5b_AzRbLkwxyWklOiNvgHsNe

export default function Hackathons() {
  const [hackathons, setHackathons] = useState([]);
  const [loading, setLoading] = useState(true);
  const [isRegFormOpen, setRegFormOpen] = useState(false);
  const [selectedHackathon, setSelectedHackathon] = useState(null);

  useEffect(() => {
    const fetchHackathons = async () => {
      setLoading(true);
      try {
        const q = query(collection(db, 'hackathons'), orderBy('createdAt', 'desc'));
        const querySnapshot = await getDocs(q);
        setHackathons(querySnapshot.docs.map(doc => ({ id: doc.id, ...doc.data() })));
      } catch (error) {
        console.error("Error fetching hackathons: ", error);
      }
      setLoading(false);
    };
    fetchHackathons();
  }, []);

  const handleApplyClick = (hackathon) => {
    setSelectedHackathon(hackathon);
    setRegFormOpen(true);
```

Figure 5.3: Hackathon Page

Chapter 6

Project Scheduling



GANTT CHART SE Mini Project 1B

Smartsheet Tip → A Gantt chart's visual timeline allows you to see details about each task as well as project dependencies.

PROJECT TITI Realtime Attendance Monitoring with Anti-spoofing

PROJECT GUI Prof. Charul Singh

DEPARTMENT NAME : Department of Information Technology

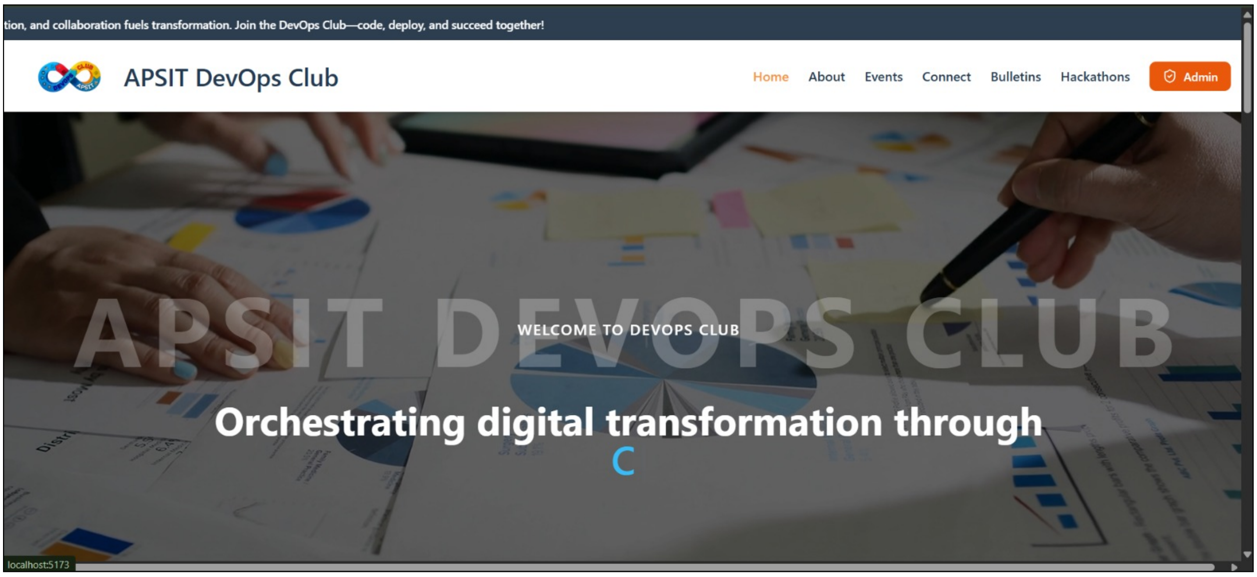
DATE 6-1-25

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATI ON(Weeks)	PCT OF TASK COMPLETE
1	Project Conception and Initiation					
1.1	Project Orientation	All Members	01-06-2025	01-10-2025	1	100%
1.1	Group Formation	All Members	13/01/2025	17/01/2025	1	100%
1.1	Area of Problem Search	Rumiza	13/01/2025	17/01/2025	1	100%
1.2	Project Title	Vinay, Deep, Shravani	13/01/2025	17/01/2025	1	100%
1.3	Feasibility	Vinay, Rumiza	13/01/2025	17/01/2025	1	100%
1.4	Literature Review	Deep, Shravani	20/01/2025	24/01/2025	1	100%
1.5	Frame Objectives	Vinay, Deep	20/01/2025	24/01/2025	1	100%
1.6	Abstract	Shravani	27/01/2025	31/01/2025	1	100%
1.7	Scope	Deep	27/01/2025	31/01/2025	1	100%
1.8	Propose Soution	Rumiza, Deep, Vinay	27/01/2025	31/01/2025	1	100%
1.9	Technology stack	Shravani	27/01/2025	31/01/2025	1	100%
1.1	Benefits / Advantages / Features	Rumiza, Shravani	27/01/2025	31/01/2025	1	100%
1.11	Technical Training	Vinay, Deep	20/01/2025	24/01/2025	1	100%
1.12	Timeline Finalization	Rumiza	02-03-2025	02-07-2025	1	100%
2	Project Design					
2.1	Proposed System	Deep, Vinay, Rumiza	02-10-2025	14/02/2025	1	100%
2.2	Flow Diagram	Shravani	02-10-2025	14/02/2025	1	100%
2.3	Design(Flow Of Modules)	Vinay	17/2/2025	21/02/2025	2	100%
3	Project Implementation					
3.1	Module-1	Rumiza Sayyeda	24/02/2025	28/02/2025	1	100%
3.2	Module-2	Deep Yarkute	24/02/2025	03-07-2025	2	100%
3.3	Module-3	Shravani Sawant	17/3/2025	21/3/2025	1	100%
3.4	Module-4	Vinay Suryarao	17/03/2025	28/3/2025	2	100%
4	Testing					
4.1	Design of Test Cases	Deep, Rumiza, Vinay	31/3/2025	04-04-2025	1	100%
4.2	Graphical Representation	Shravani	04-07-2025	04-11-2025	1	100%
4.3	Report Preparation	Rumiza	14/4/2025	18/4/2025	1	100%

Figure 6.1: Project Scheduling

Chapter 7

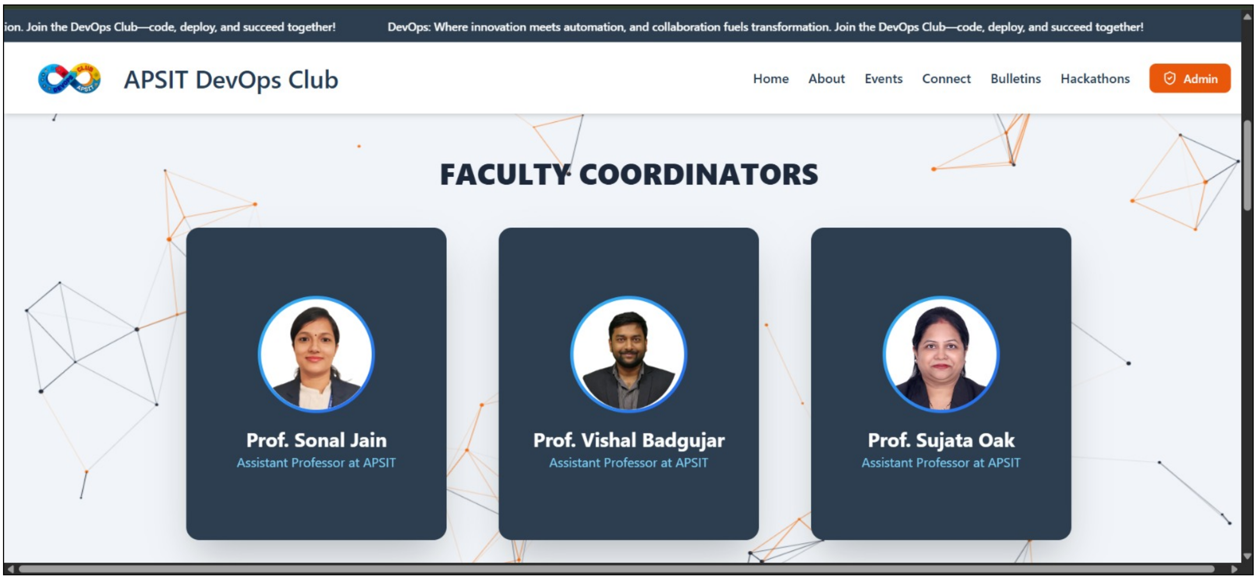
Results



tion, and collaboration fuels transformation. Join the DevOps Club—code, deploy, and succeed together!

Orchestrating digital transformation through
C

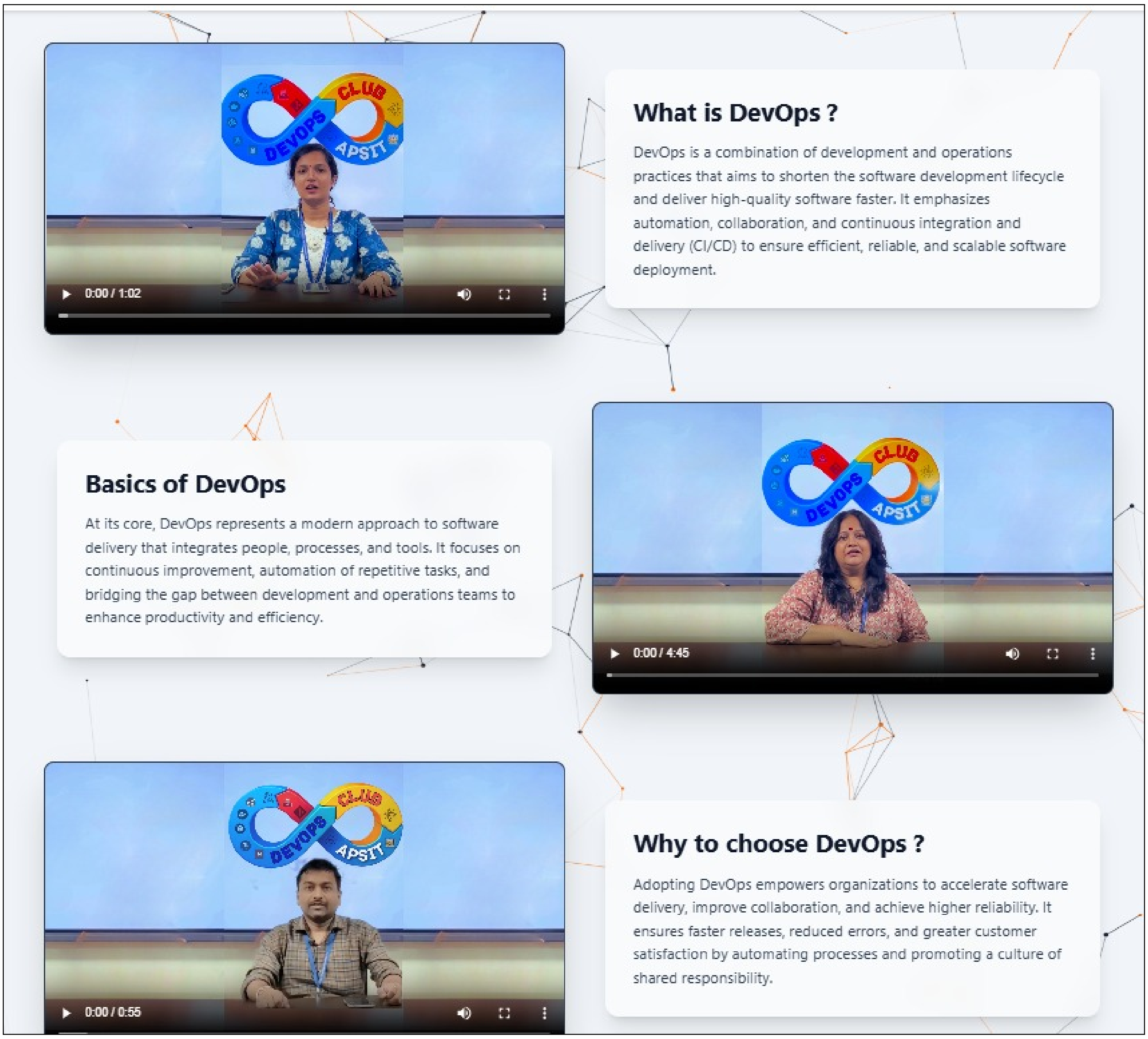
Figure 7.1: Home Page



ion. Join the DevOps Club—code, deploy, and succeed together!

DevOps: Where innovation meets automation, and collaboration fuels transformation. Join the DevOps Club—code, deploy, and succeed together!

Figure 7.2: Home Page - Faculty Coordinators



What is DevOps ?

DevOps is a combination of development and operations practices that aims to shorten the software development lifecycle and deliver high-quality software faster. It emphasizes automation, collaboration, and continuous integration and delivery (CI/CD) to ensure efficient, reliable, and scalable software deployment.

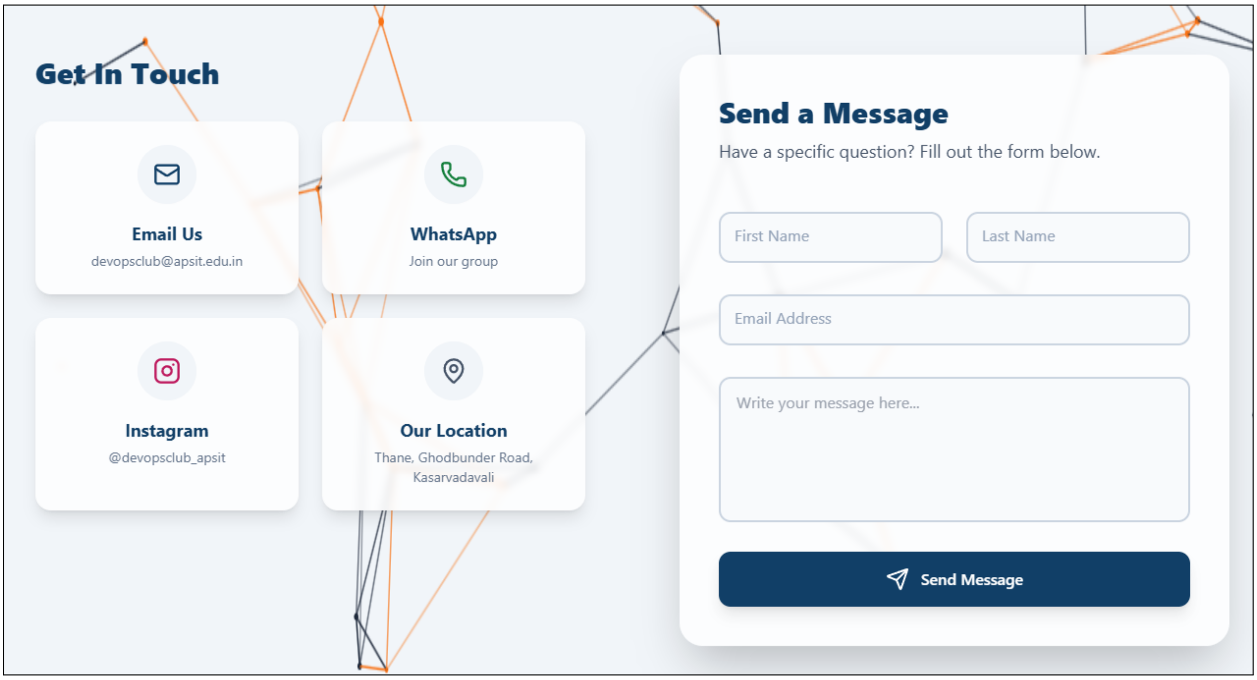
Basics of DevOps

At its core, DevOps represents a modern approach to software delivery that integrates people, processes, and tools. It focuses on continuous improvement, automation of repetitive tasks, and bridging the gap between development and operations teams to enhance productivity and efficiency.

Why to choose DevOps ?

Adopting DevOps empowers organizations to accelerate software delivery, improve collaboration, and achieve higher reliability. It ensures faster releases, reduced errors, and greater customer satisfaction by automating processes and promoting a culture of shared responsibility.

Figure 7.3: Home Page - Discover DevOps



Get In Touch

Email Us
devopsclub@apsit.edu.in

WhatsApp
Join our group

Instagram
@devopsclub_apsit

Our Location
Thane, Ghodbunder Road, Kasarvadavali

Send a Message
Have a specific question? Fill out the form below.

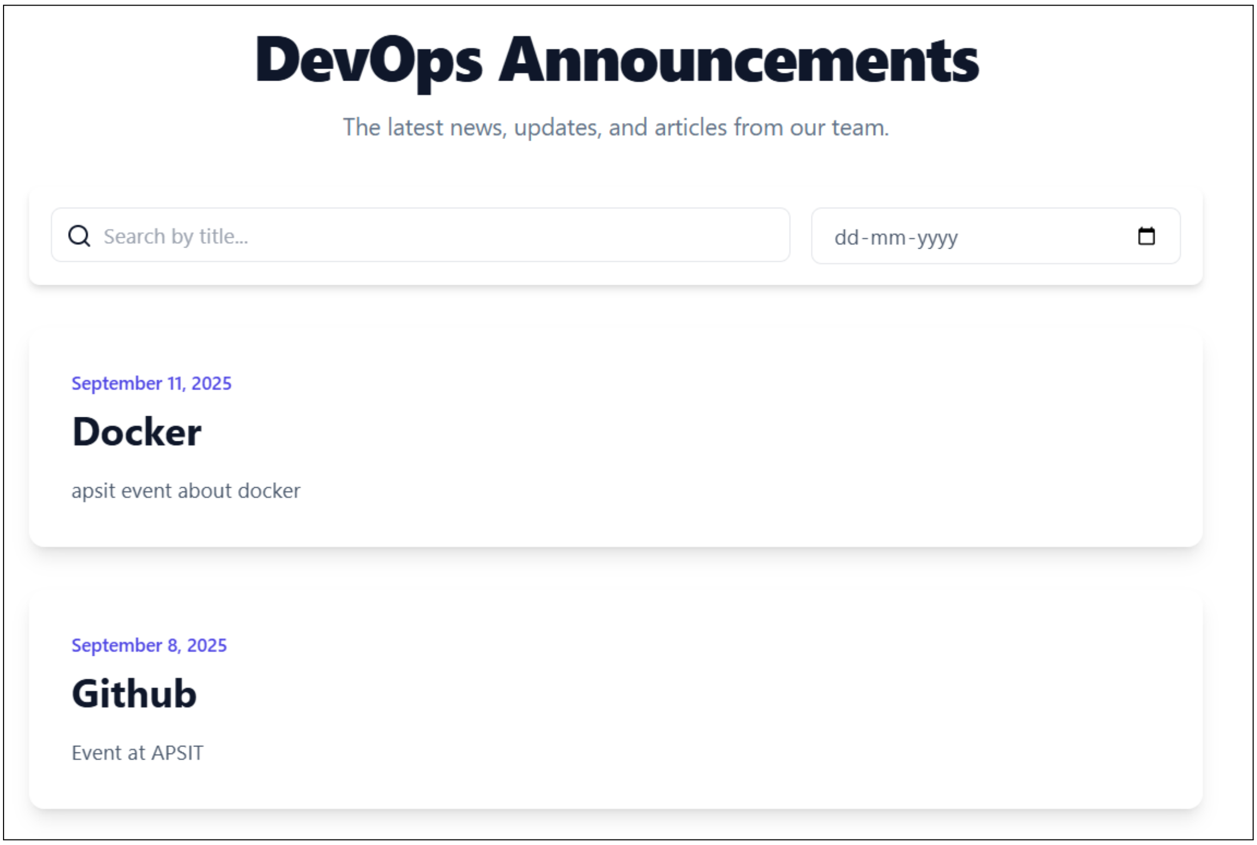
First Name | Last Name

Email Address

Write your message here...

Send Message

Figure 7.4: Connect Page



DevOps Announcements

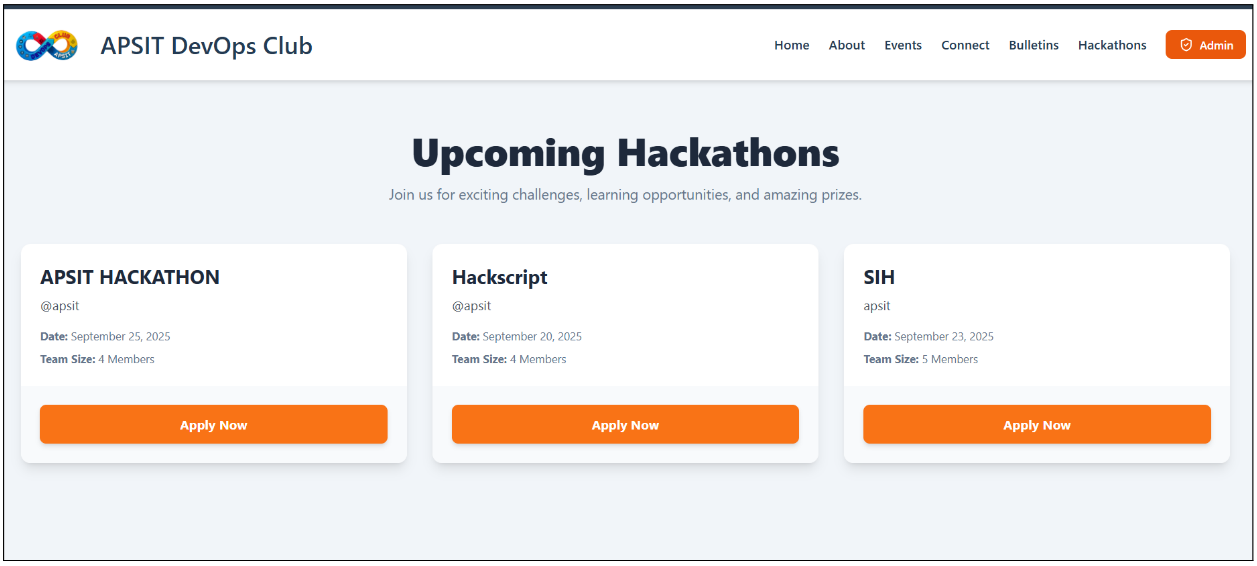
The latest news, updates, and articles from our team.

Search by title... | dd-mm-yyyy

September 11, 2025
Docker
apsit event about docker

September 8, 2025
Github
Event at APSIT

Figure 7.5: Bulletins Page



APSIT DevOps Club

Upcoming Hackathons

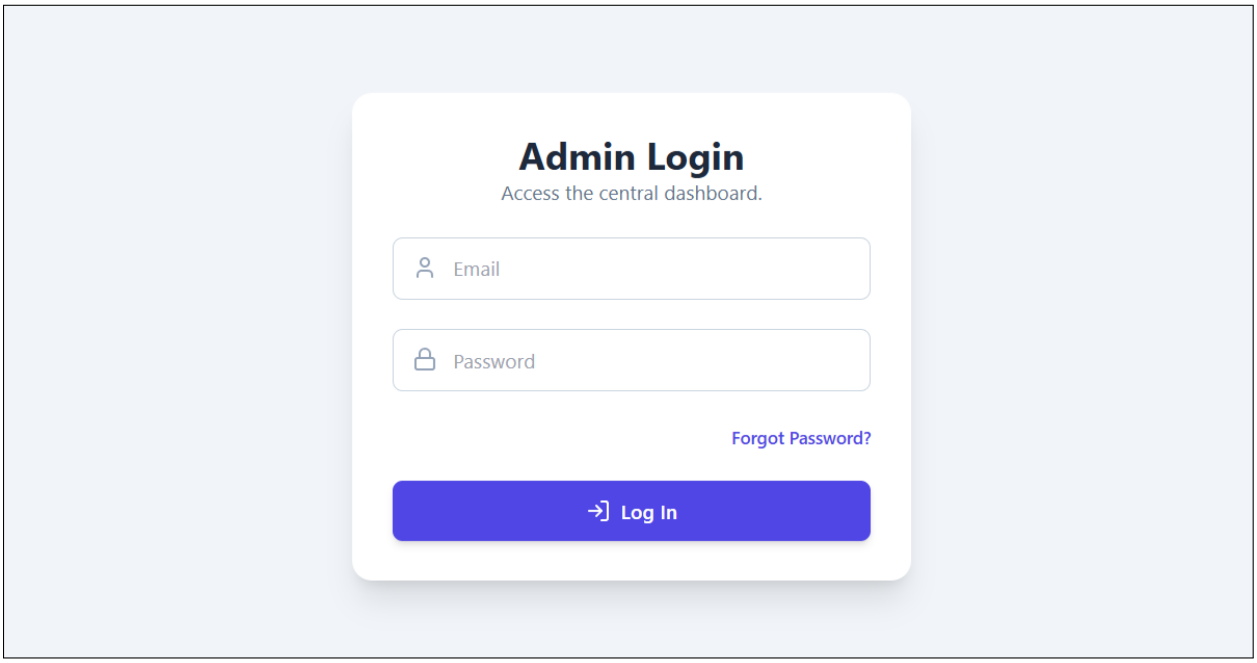
Join us for exciting challenges, learning opportunities, and amazing prizes.

APSIT HACKATHON
@apsit
Date: September 25, 2025
Team Size: 4 Members

Hackscript
@apsit
Date: September 20, 2025
Team Size: 4 Members

SIH
apsit
Date: September 23, 2025
Team Size: 5 Members

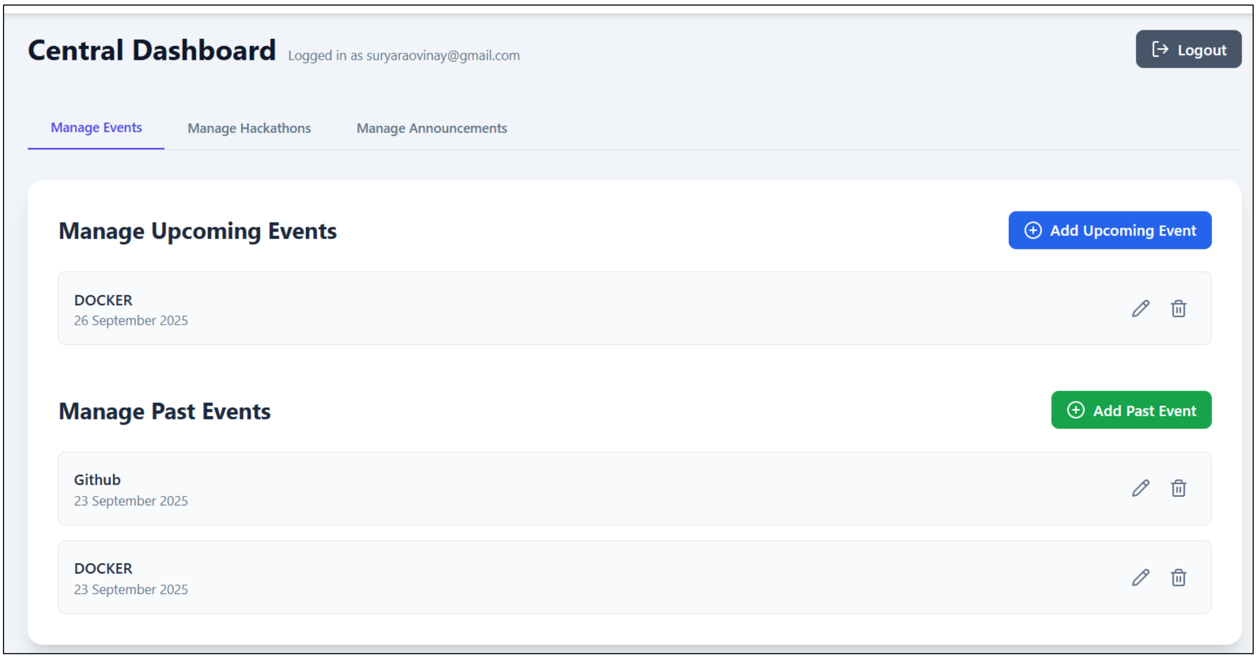
Figure 7.6: Hackathons Page



Admin Login

Access the central dashboard.

Figure 7.7: Admin Page - Admin Login



Central Dashboard Logged in as suryaraovinay@gmail.com

Manage Upcoming Events

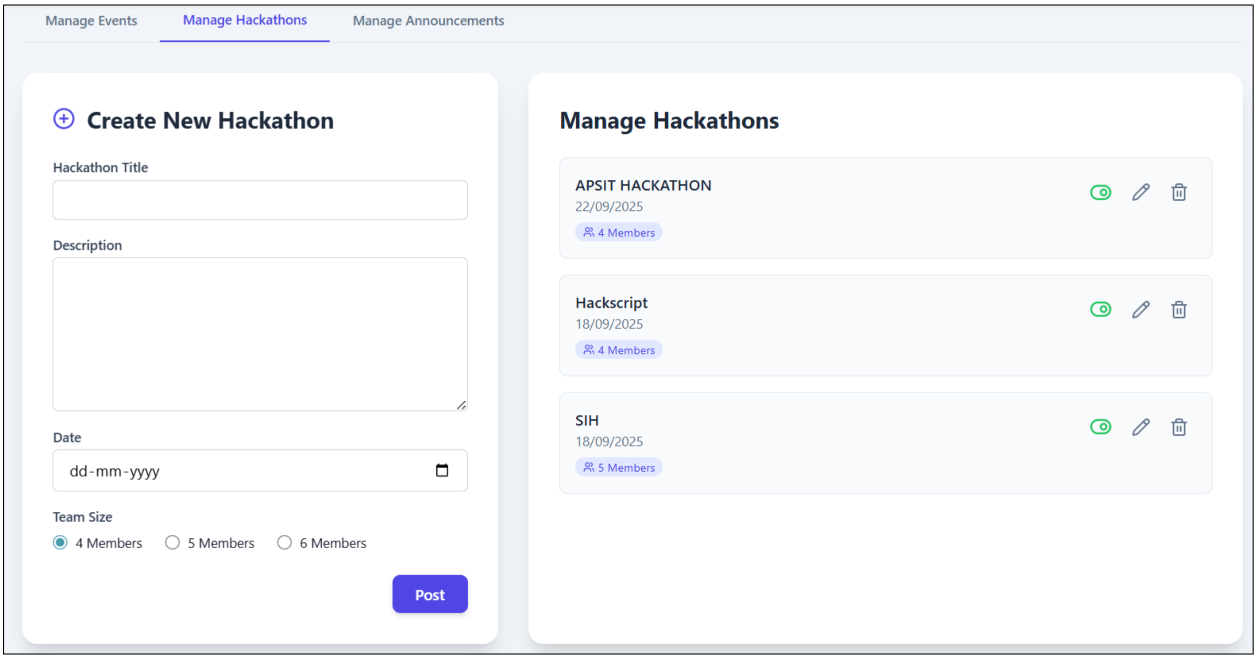
DOCKER
26 September 2025

Manage Past Events

Github
23 September 2025

DOCKER
23 September 2025

Figure 7.8: Admin Page - Manage Event



Create New Hackathon

Hackathon Title

Description

Date
dd-mm-yyyy

Team Size
● 4 Members ○ 5 Members ○ 6 Members

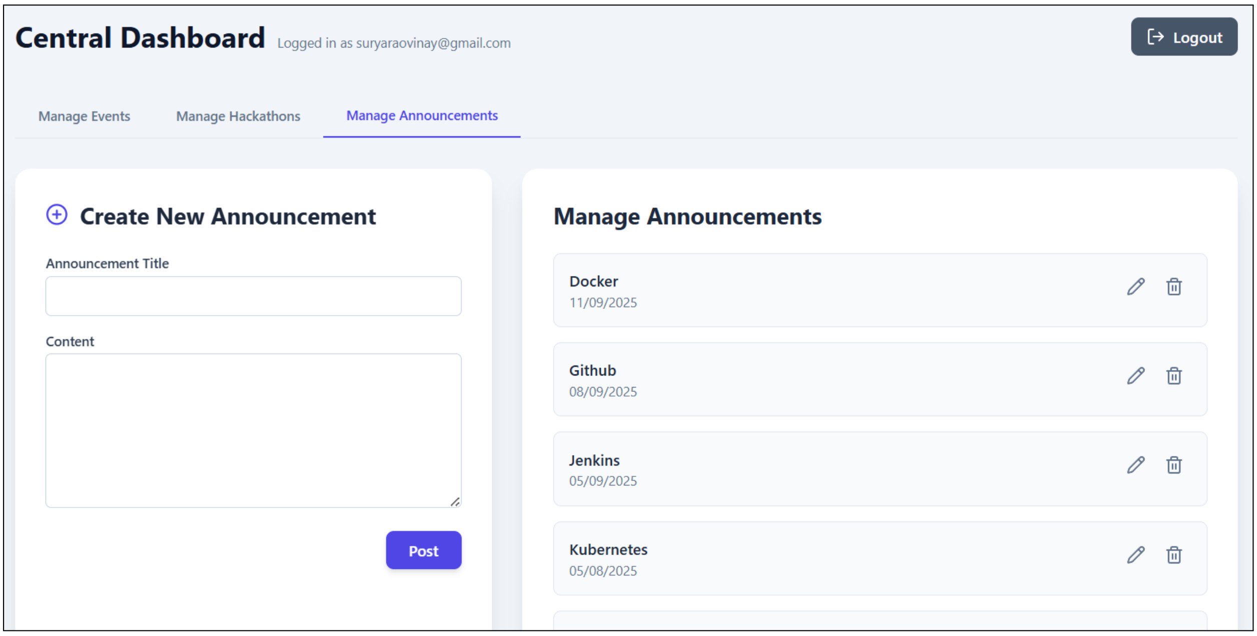
Manage Hackathons

APSIT HACKATHON
22/09/2025
4 Members

Hackscript
18/09/2025
4 Members

SIH
18/09/2025
5 Members

Figure 7.9: Admin Page - Manage Hackathons



Central Dashboard Logged in as suryaraovinay@gmail.com

Create New Announcement

Announcement Title

Content

Manage Announcements

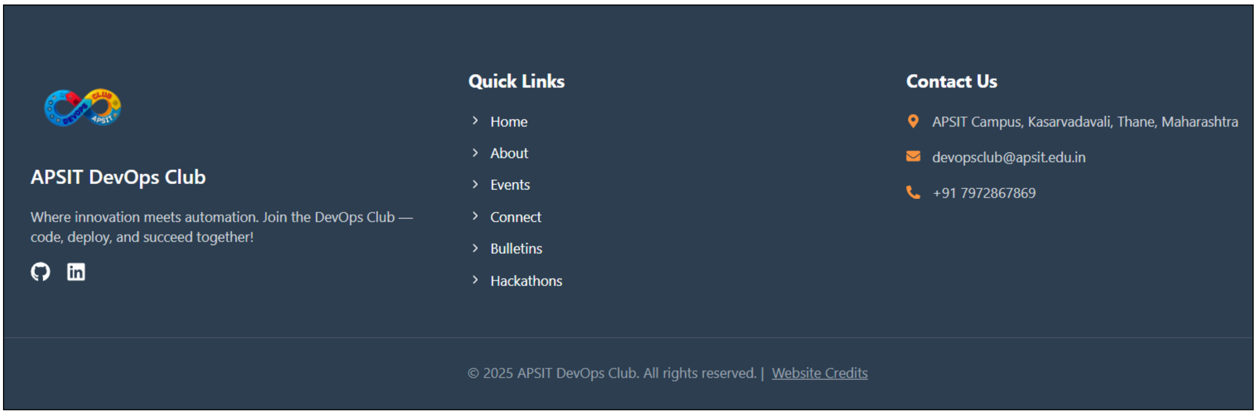
Docker
11/09/2025

Github
08/09/2025

Jenkins
05/09/2025

Kubernetes
05/08/2025

Figure 7.10: Admin Page - Manage Announcements



APSIT DevOps Club

Where innovation meets automation. Join the DevOps Club — code, deploy, and succeed together!

Quick Links

- Home
- About
- Events
- Connect
- Bulletins
- Hackathons

Contact Us

APSIT Campus, Kasarvadavali, Thane, Maharashtra

devopsclub@apsit.edu.in

+91 7972867869

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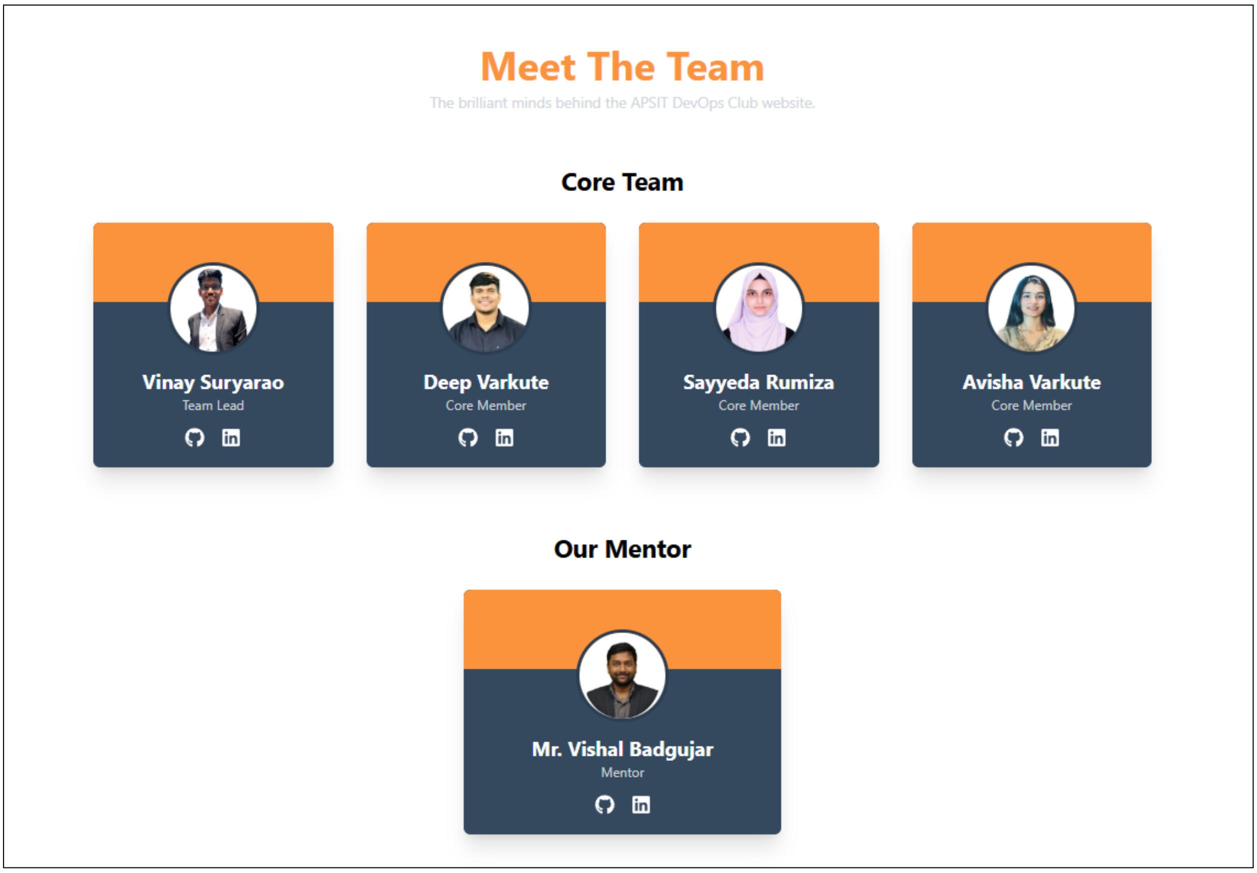
Figure 7.11: Footer



Meet The Team

The brilliant minds behind the APSIT DevOps Club website.

Core Team

Vinay Suryarao
Team Lead

Deep Varkute
Core Member

Sayyeda Rumiza
Core Member

Avisha Varkute
Core Member

Our Mentor

Mr. Vishal Badgujar
Mentor

Figure 7.12: Website Credits

Chapter 8

Conclusion

The APSIT DevOps Club plays a key role in connecting academic theory with industry practice. However, it faces major operational challenges because there is no central digital platform. This lack of centralization leads to poor communication, lengthy manual processes for managing events, and a chaotic knowledge base. These issues make the experience disjointed for members and hinder the club's ability to demonstrate their skills and projects effectively.

The proposed "APSIT DevOps Club Web Platform" tackles these challenges by creating a single digital space for all club activities. It includes key features like a lively events and hackathon system, a main bulletin board, a resource library, and an admin panel. The platform will simplify operations and encourage a culture of ongoing improvement. In the end, this platform will act as a digital incubator. It will help students work together on projects, gain practical experience with industry tools, and develop a strong portfolio. This way, they will be well-prepared to become future leaders in the software industry.

Chapter 9

Future Scope

- In the future, there may be direct integration with the A. P. Shah Institute of Technology's official Enterprise Resource Planning (ERP) system. This would make the process of checking students' identities during registration automatic, making sure that all members are current students. It could also sync club events with the official college calendar, which would make them more visible on campus.

- It would be better if the project hub worked more closely with platforms like GitHub. This would let you see how the project is going in real time right on the platform, automatically show code commits and contributions on member profiles, and make it easier for teams to work together.

- A separate module could be made to connect current students with club alumni who are now working in the field. This feature would make it easier to set up a mentorship program where junior members could get career advice and help from more experienced professionals. This would make the connection between academia and industry stronger.

References

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