Industrial Internship Report

Title:

CAMPUSCONNECT: STREAMLINED WEB SOLUTION

Company Name:

HSPM SOLUTIONS LLP.

Submitted in partial fulfilment of the requirement of the degree of

BACHELOR OF TECHNOLOGY (CSE/ AI&ML)

to

K.R Mangalam University

by

Vaibhav Kumain (2101730003)

Under the supervision of

Supervisor Name
Dr. Preeti Rathi
Assistant Professor

Supervisor Name
Mr. Himaanshu Saraf
Designated Partner & CEO
HSPM Solutions LLP.

Department of Computer Science and Engineering

School of Engineering and Technology

K.R Mangalam University, Gurugram- 122001, India

April 2025

DECLARATION

I hereby declare that this internship report is my original work and has not been submitted elsewhere. The information presented here is true and correct to the best of my knowledge.

VAIBHAV KUMAIN

2101730003

Date: 21st April 2025

INDUSTRIAL INTERNSHIP CERTIFICATE

This is to certify that the Industrial Project entitled, "**CAMPUSCONNECT: STREAMLINED WEB-SOLUTION**" completed by "**VAIBHAV KUMAIN (2101730003)" at [HSPM Solutions LLP.] from January 2025 to April 2025,** is a record of Bonafide industrial project work carried out by him under my supervision and guidance and is worthy of consideration for the partial completion of the University's Bachelor of Technology in Computer Science and Engineering degree.

MR. Himaanshu Saraf
Designated Partner & CEO
9810067414
HSPM Solutions LLP., East Street Galleria, Camp, Pune

INDUSTRIAL INTERNSHIP COMPLETION CERTIFICATE

HSPM SOLUTIONS LLP.

REGD ADD: House No. 39, Plot No. 14, Block D, Sector 14, Sant Tulsi Dass Appts, Rohini, New Delhi – 110 085
Corporate Office : 302, Indira Chambers, Tilak Road, Pune - 411030
Contact: 8882655840 | Email: support@hspmsolutions.com

DATE: 09/04/2025

Project Completion Certificate

This is to certify that **Mr. Vaibhav Kumain**, a student of **K.R. Mangalam University**, successfully completed a live web development project at **HSPM Solutions LLP** as part of his final year academic requirement. From **January 2025 to April 2025**, Vaibhav actively contributed to the **design and front-end development** of the **JSIMR College website**, gaining hands-on experience with technologies such as **HTML, CSS, JavaScript, Bootstrap, and MySQL**.

His responsibilities included:

- **Front-End Development:** Building responsive user interfaces using HTML, CSS, and JavaScript.
- **Component Design:** Creating interactive elements such as forms, menus, and navigation using Bootstrap.
- **Collaboration & Integration:** Working closely with designers, back-end developers, and QA teams for seamless feature implementation.

Vaibhav demonstrated strong technical proficiency, attention to detail, and excellent collaboration skills. His work significantly improved the website's **UI/UX and content accessibility** for various stakeholders.

We appreciate his dedication and valuable contribution to the project and wish him continued success in his professional journey.

Himaanshu Saraf
CEO & Designated Partner
HSPM Solutions LLP.
Contact: himaanshu_saraf@hspmsolutions.com

CERTIFICATE

This is to certify that the Project Synopsis entitled, "**CAMPUSCONNECT: STREAMLINED WEB-SOLUTION**" submitted by "**VAIBHAV KUMAIN (2101730003)"** to **K.R Mangalam University, Gurugram, India,** is a record of Bonafide project work carried out by him under my supervision and guidance and is worthy of consideration for the partial fulfilment of the degree of **Bachelor of Technology** in **Computer Science and Engineering** of the University.

Dr. Preeti Rathi (Assistant Professor)

Dr Pankaj Agarwal, Dean SOET

Date: 21st April 2025

INDEX

INDUSTRY DETAILS

Introduction

The purpose of this internship was to gain practical exposure in the field of web development and digital solutions. The objectives included:

Understanding the workflow of website development and deployment.

Developing skills in front-end and back-end technologies.

Learning project management and client collaboration strategies.

Company Profile

- **Name:** HSPM Solutions LLP.
- **Location:** HSPM Solutions LLP., East Street Galleria, Camp, Pune
- **Founded in:** 2018
- **Vision & Mission:**

  We at **HSPM Solutions**, do what we are best at. We make agile software's, astounding websites, best-in-class smartphone applications in the most cost-effective way possible. We aim to digitalize more and more of the market by cutting the extra penny expenditure required for generating the resources and marketing, making it affordable to each & every business and freelancers to establish their roots in the online market. And yes, that's how we engineer the problems.

Key Services:

i. App development
ii. Web Development
iii. UI/UX Design
iv. E-Commerce Solutions
v. Software development
vi. Digital Marketing

vii. Hosting & Maintenance
viii. Ad- Management Services

- **Organizational Structure:**

  HSPM Solutions follows a structured hierarchy to manage projects efficiently. The company is divided into various departments, each responsible for specific functions:

  Project Management Team: Oversees project planning, timelines, and resource allocation.

  Design Team: Focuses on UI/UX, ensuring user-friendly and visually appealing designs.

  Client Relations and Support Team: Manages client communication, feedback, and post-deployment maintenance.

- For the JSIMR website project, the team was structured as follows:

  Project Manager: Supervised the development process and ensured project goals were met.

  Lead Developer: Oversaw coding standards and architectural decisions.

  Front-End Developers: Worked on UI components using HTML, CSS, and JavaScript.

  Back-End Developers: Developed server-side functionalities using PHP and MySQL.

Internship Details:

- **Role:** Software Developer Intern
- **Department:** Development Team (Web Development & Software Solutions)
- **Supervisor:** Mr. Himaanshu Saraf
- **Duration:** January 2025 to April 2025
- **Work Environment:** Hybrid

Tasks and Responsibilities:

During the internship, I was responsible for:

- **Front-End Development:** Designed and implemented the UI/UX of the JSIMR College website using HTML, CSS, and JavaScript, ensuring responsiveness and an engaging user experience.
- **Component Design & Styling:** Developed navigation menus, forms, and interactive elements, applying CSS frameworks like Bootstrap for a modern and responsive layout.
- **User Experience Optimization:** Ensured smooth navigation, accessibility, and cross-browser compatibility for better usability.
- **Collaboration & Code Reviews:** Worked closely with designers, back-end developers, and QA testers to implement front-end features efficiently.

Learning Outcomes:

Acquired knowledge in web development technologies such as HTML, CSS, JavaScript, and database management.

Developed proficiency in tools such as MySQL, and Git.

Enhanced communication, teamwork, and problem-solving abilities through real-world project execution.

Contribution to the Organization:

I contributed to the development of the JSIMR college website under HSPM Solutions, ensuring an optimized and user-friendly design. My efforts resulted in improved website efficiency, better UI/UX, and streamlined information access for students and faculty.

ABSTRACT

The project, **CampusConnect: Streamlined Web Solutions**, is a responsive and dynamic website developed for Jayawantrao Sawant Institute of Management & Research (JSIMR), Pune. The platform is designed to meet the institution's growing digital needs by providing a seamless online experience for students, faculty, staff, and prospective applicants. By integrating functionalities such as admission management, academic updates, placement details, and institutional compliance (NAAC, IQAC), the website enhances the accessibility and efficiency of institutional operations.

Leveraging cutting-edge technologies like HTML, CSS, JavaScript (Angular), Bootstrap, PHP, MySQL and Cloud Server from Hostinger, the project ensures a robust backend and an intuitive, responsive frontend. The design prioritizes cross-platform compatibility, enabling users to access the website on desktops, tablets, and smartphones. Key features include interactive admission forms, secure user dashboards, dynamic event updates, and a comprehensive resource section for downloads. The incorporation of APIs and responsive design libraries further enhances usability and interactivity.

A structured methodology was adopted to ensure the project's success. It began with a detailed requirement analysis to understand the needs of various stakeholders. This was followed by the design and development phases, during which wireframes, prototypes, and functional modules were created and integrated. Rigorous testing ensured the website’s performance, security, and usability. The final deployment phase involved hosting the platform on a cloud server and implementing a maintenance plan for future updates.

The website relies on diverse data resources, including institutional data (e.g., course details, faculty profiles, accreditation reports) and media assets like images and videos. These resources were strategically utilized to create an informative and visually engaging platform. Additionally, the use of technical tools and APIs enabled the integration of advanced features, such as real-time updates and automated form validation.

The project delivers significant benefits by enhancing user engagement, streamlining administrative workflows, and improving JSIMR’s online visibility. It represents a step toward digital transformation, setting a benchmark for other educational institutions. In the long term, this initiative will contribute to the institution’s growth by strengthening its reputation, attracting prospective students, and fostering collaborations with industry and academic partner

Chapter 1

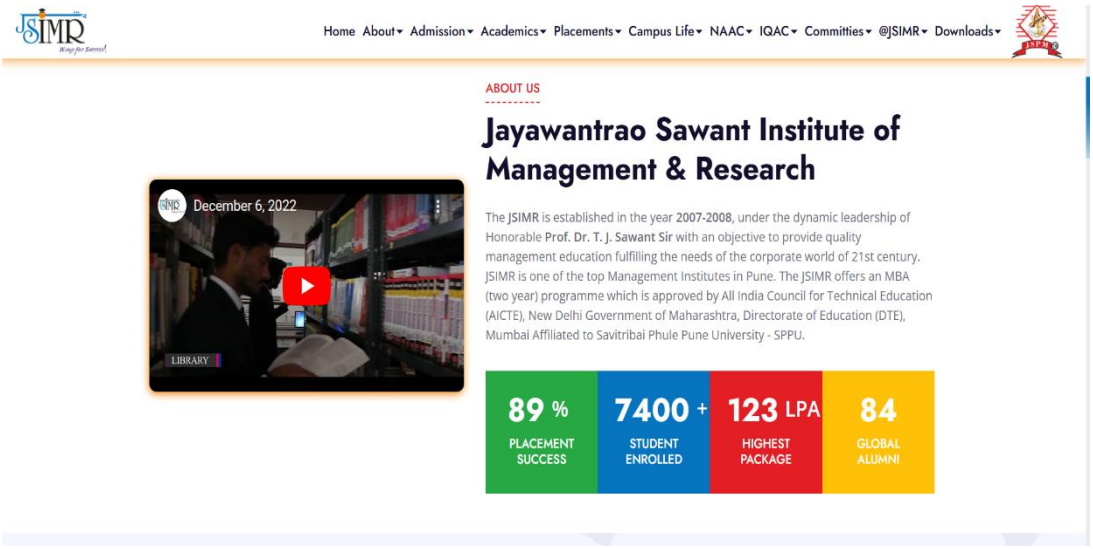
Introduction

In today's era of digital advancement, educational institutions are increasingly adopting technology to increase stakeholder satisfaction and operational effectiveness experiences. Jayawantrao Sawant Institute of Management & Research (JSIMR), Pune, sought to address the need for a unified digital platform to cater to its students, faculty, staff, and prospective applicants. The **CampusConnect: Streamlined Web Solutions** project delivers a responsive and user-friendly website that centralizes access to essential institutional information while simplifying administrative workflows.

The platform's primary objective is to provide seamless access to key functionalities such as admissions, academic updates, placement opportunities, and compliance with NAAC and IQAC standards. Designed with a user-first approach, the website integrates interactive forms, dynamic content updates, ensuring accessibility across all devices. Its modular architecture also supports future enhancements, making it adaptable to the evolving needs of the institution.

Developed using cutting-edge technologies like HTML, CSS, JavaScript (Angular), Bootstrap, PHP, MySQL and Cloud Server from Hostinger, the project emphasizes robust backend operations and a visually appealing frontend. A structured development methodology—including requirement

analysis, design, testing, and deployment—ensured that stakeholder expectations were met with high standards of performance and security. By streamlining processes and enhancing engagement, the **CampusConnect** project sets a benchmark for digital transformation in educational institutions, paving the way for sustained growth and innovation.



MOTIVATION

The primary motivation for this project was to apply theoretical knowledge in a real-world scenario while working with HSPM Solutions on a live project. The opportunity to develop a website for JSIMR College provided hands-on experience in full-stack web development, enhancing both technical and professional skills.

In today's digital era, websites serve as the primary interface between organizations and their stakeholders. The JSIMR College website was envisioned to improve accessibility, enhance user experience, and streamline information dissemination. This project allowed me to gain firsthand experience in front-end development while collaborating with a team to build a functional and aesthetically appealing website.

Additionally, this internship aligned with my long-term career goals of becoming proficient in web development and software solutions. By working on a live project, I had the chance to explore various technologies, debug real-world issues, and understand client requirements better. The experience of working in a structured corporate environment at HSPM Solutions also helped me develop soft skills such as teamwork, communication, and time management.

This project further motivated me to refine my problem-solving abilities as I encountered and resolved challenges related to responsiveness, UI optimization, and backend integration. Moreover, contributing to a meaningful project that benefits an educational institution made the experience even more rewarding.

Apart from technical learning, this internship also provided insight into the importance of effective communication and collaboration. Adapting to feedback from mentors and clients helped in improving the quality of work and aligning it with the expectations of the stakeholders. Furthermore, working in a professional environment allowed me to understand the importance of deadlines, structured workflows. The motivation gained from this project has further inspired me to deepen my expertise in front-end and back-end technologies, with a focus on delivering high-quality digital solutions.

Chapter 2

LITERATURE REVIEW

Introduction to Educational Websites

Educational institutions worldwide are adopting web-based platforms to provide information and improve communication with students, faculty, and stakeholders. Studies indicate that an effective website enhances institutional visibility and plays a vital role in shaping the perception of the institution among prospective students. Websites with robust design and relevant content have been shown to significantly increase user engagement and satisfaction.

The Importance of User-Centered Design

Research in Human-Computer Interaction (HCI) emphasizes the importance of user-centered design in educational websites. Usability studies suggest that websites must cater to diverse user groups, including students, faculty, and parents. Features such as responsive design, easy navigation, and content accessibility are considered crucial for ensuring an inclusive user experience.

Role of Dynamic Content in Modern Websites

Dynamic websites are increasingly preferred over static ones due to their flexibility and ease of content management. Literature highlights that institutions benefit from content management systems (CMS) that allow non-technical staff to update information regularly. This ensures that information such as admission details, academic calendars, and announcements is always up-to-date.

Integration of Academic and Administrative Features

Educational websites often integrate academic and administrative tools to improve operational efficiency. Studies underline the importance of modules like online admission forms, placement statistics, and downloadable resources in enhancing the functionality of the website. These features not only simplify processes for users but also contribute to the institution's digital transformation.

Impact of Mobile-Friendly Websites

With the rise of mobile internet usage, responsive design has become a critical factor for website success. Research indicates that mobile-friendly websites improve accessibility and reach, especially among tech-savvy students and professionals. Ensuring compatibility across devices is considered a best practice in web development.

Search Engine Optimization (SEO) and Visibility

SEO strategies contribute significantly to making educational websites more visible. The significance of optimal content is emphasized in literature on SEO strategies, metadata, and keyword usage to rank higher in search engine results. Improved visibility translates to increased traffic and greater engagement with prospective students.

Security and Data Privacy in Educational Websites

Security concerns are paramount for websites handling sensitive user data, such as student admissions and academic records. Research in cybersecurity suggests implementing secure protocols like HTTPS, data encryption, and user authentication to protect data integrity. Compliance with privacy regulations is also essential for maintaining user trust.

Case Studies of Successful Educational Websites

Case studies of institutions with successful digital transformations demonstrate the impact of well-designed websites. For instance, universities leveraging dynamic content and interactive features report higher admission rates and user satisfaction. These examples underscore the importance of aligning website features with user needs and institutional goals.

Future Trends in Educational Web Design

Emerging technologies such as artificial intelligence (AI) and chatbots are expected to redefine educational websites. Literature suggests that integrating AI-driven features can enhance user support and automate routine queries. The adoption of such technologies reflects the ongoing evolution of educational websites to meet future demands.

GAP ANALYSIS

Introduction

The development of the JSIMR website aims to create an efficient, dynamic, and user-friendly platform for students, faculty, and prospective students. The gap analysis highlights the areas where the current digital presence of the college can be improved to meet the needs of users and align with modern educational web standards.

Current State

Outdated Content and Design.

The existing website may contain outdated information, leading to confusion among prospective students and parents.

The design may not be optimized for mobile devices, limiting accessibility for users on smartphones and tablets.

Lack of Interactive Features

No interactive features like live chats, dynamic forms for admissions, or personalized dashboards for students.

Current website does not integrate advanced CMS, making updates slower and more cumbersome.

Limited Communication Tools

The website lacks seamless communication tools like forums, live chat, or real-time notifications.

Contact information and event updates may be difficult to locate or outdated, affecting user experience.

Desired State

Modern and Responsive Design

A fully responsive website compatible with mobile, tablet, and desktop devices.

An updated, aesthetically pleasing design aligned with the institute's branding and modern trends in web design.

Dynamic Content Management

An easy-to-use CMS that allows non-technical staff to update content regularly.

Integration of features like online admission forms, placement stats, and course information that can be managed in real-time.

Interactive Features

Integration of live chat functionality for prospective students and faculty to interact.

Event management systems for automatic updates on campus activities, guest lectures, and workshops.

A student dashboard for accessing personal information, grades, and announcements.

Enhanced Communication Tools

Integration of a messaging system and newsletter subscriptions for continuous updates.

Real-time notifications for admissions, events, and other announcements to engage users better.

Gap Identification

Outdated Design vs. Desired Modern Design

The current website does not meet modern web design standards and does not function well on mobile devices. There is a need for a complete overhaul in terms of layout, navigation, and accessibility.

Limited Content Management

Existing systems may not be flexible enough to manage the dynamic needs of the college. A new CMS system should be implemented to ensure content can be easily updated by non-technical staff.

Missing Interactive Features

The website lacks features that could make it more interactive and user-centric, such as online forms, event calendars, and student dashboards.

Communication Gaps

Communication between the institution and the stakeholders is limited. Modern solutions such as live chat, email subscriptions, and integrated messaging would provide a significant improvement in engagement**.**

PROBLEM STATEMENT

The current website of JSIMR Pune does not meet the expectations of a modern educational institution's digital presence. It lacks a user-friendly interface, responsive design, and dynamic content management system, leading to challenges in providing updated information to students, faculty, and prospective stakeholders. The absence of interactive features, seamless communication tools, and mobile compatibility further limits its accessibility and usability.

This creates inefficiencies in delivering key services, such as admissions, academic updates, and event notifications, thereby hindering the institution's ability to engage effectively with its audience and achieve its goals of transparency, efficiency, and accessibility.

OBJECTIVES

Enhance User Experience

Develop a responsive, user-friendly website that provides seamless navigation and access to relevant information for students, faculty, and stakeholders.

Modernize Website Design

Redesign the website to align with current web standards, ensuring an aesthetically pleasing and professional look that reflects the institution's branding.

Implement Dynamic Content Management

Integrate a content management system (CMS) to enable non-technical staff to easily update information such as admissions, academic schedules, and announcements.

Increase Accessibility

Ensure mobile and tablet compatibility, making the website accessible across all devices to cater to a diverse audience.

Integrate Interactive Features

Add features such as online admission forms, live chat, event calendars, and downloadable resources to improve engagement and interactivity.

Enhance Communication

Provide tools like newsletters, real-time notifications, and integrated messaging systems for effective communication between the institution and its audience.

Ensure Security and Data Privacy

Incorporate robust security measures such as HTTPS, data encryption, and user authentication to protect sensitive user information and maintain trust.

Optimize Visibility

Implement search engine optimization (SEO) strategies to improve the website's ranking and visibility, attracting more prospective students and stakeholders.

Facilitate Future Scalability

Build a scalable platform that can incorporate future enhancements, such as student portals, AI-driven chatbots, or analytics tools.

CHAPTER 3:

METHODOLOGY

1.Requirement Gathering and Analysis

Conduct meetings with stakeholders, including faculty, staff, and students, to identify their needs and expectations for the website.

Perform a detailed analysis of the current website to understand its limitations and areas of improvement.

Define key objectives, features, and deliverables based on stakeholder input.

2. Research and Planning

Review similar educational institution websites to identify best practices and innovative features.

Develop a project plan with defined timelines, resources, and responsibilities.

Create a site map and structure for organizing content effectively.

3. Design and Prototyping

Use tools like Figma or Adobe XD to design the website's user interface (UI) and user experience (UX).

Develop wireframes and prototypes to visualize the layout, navigation, and overall design.

Incorporate stakeholder feedback to refine the design before proceeding to development.

4. Development

Frontend Development: Use HTML5, CSS3, and JavaScript (or frameworks like Angular) to build an interactive and responsive interface.

Backend Development: Develop server-side functionality using PHP, integrating a database (e.g., MySQL) for dynamic content management.

Content Management System: Set up a CMS (e.g., WordPress or custom-built) to simplify content updates.

5. Testing and Quality Assurance

Perform functional testing to ensure all features, such as online forms and dashboards, work as intended.

Conduct cross-browser and cross-device testing to guarantee compatibility.

Test for security vulnerabilities and ensure compliance with data privacy regulations.

Obtain stakeholder approval after resolving all identified issues.

6. Deployment

Host the website on a reliable platform (e.g., AWS, cPanel, or Netlify).

Secure the website with SSL/TLS certificates and set up regular backups.

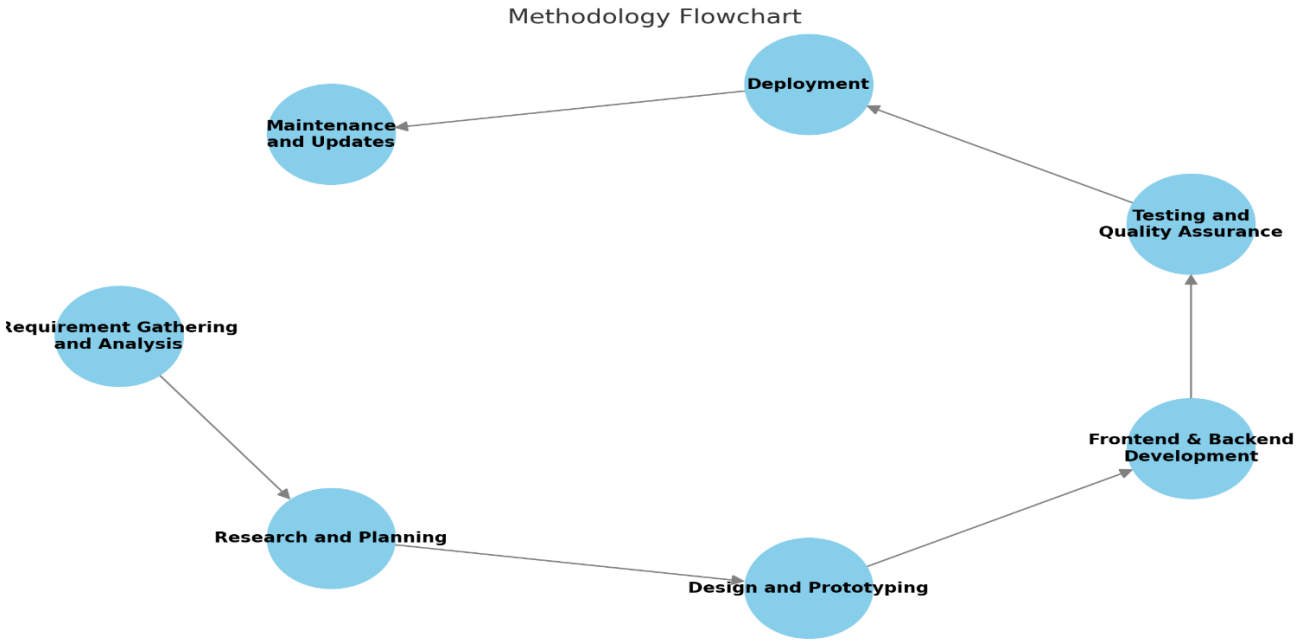
Monitor website performance post-deployment to address any initial issues promptly.

7. Maintenance and Updates

Provide documentation for managing and updating the website content.

Offer training sessions to staff for using the CMS effectively.

Schedule periodic updates and performance reviews to keep the website functional and relevant.


Methodology Flowchart
Deployment
Maintenance and Updates
Testing and Quality Assurance
Requirement Gathering and Analysis
Frontend & Backend Development
Research and Planning
Design and Prototyping

Tools/platform Used

1.Frontend Development

HTML5: For structuring the web pages.

CSS3: For designing and styling the website.

JavaScript: For adding interactivity and enhancing user experience.

Angular: For building a responsive and dynamic user interface.

Bootstrap

2. Backend Development

PHP: For server-side scripting and dynamic content management.

MYSQL: For creating a scalable and real-time backend.

3. Database Management

MySQL: For managing and storing institutional data (e.g., admissions, events, announcements).

MongoDB (optional): For a flexible NoSQL database alternative.

4. Content Management System (CMS)

WordPress: For a user-friendly platform to manage and update content easily.

Custom CMS: Built using PHP or Node.js to meet specific requirements.

5. Version Control

Git: For version control and collaborative development.

GitHub/GitLab: For hosting and managing code repositories.

Cloud Server from HOSTINGER.

6. Design and Prototyping Tools

Figma: For wireframing and UI/UX design.

Adobe XD: For prototyping and designing the website layout.

Canva: For creating visuals and graphics for the website.

7. Web Hosting and Deployment

cPanel Hosting: For deploying the website on a shared hosting platform.

AWS (Amazon Web Services): For scalable hosting and cloud solutions.

Netlify or Vercel: For deploying static or dynamic websites.

8. SEO and Analytics Tools

Google Analytics: For tracking website traffic and user behaviour.

Google Search Console: For improving search engine visibility.

Yoast SEO Plugin: For optimizing content (if using WordPress).

9. Security Tools

SSL/TLS Certificates: For enabling HTTPS and securing data transmission.

OWASP Guidelines: For ensuring secure web application development.

10. Testing Tools

Selenium: For automated UI testing.

Postman: For testing APIs and backend functionality.

BrowserStack: For cross-browser compatibility testing.

Chapter 4
Implementation

Project Development:

- Conducted requirement gathering and analysis to understand the needs of JSIMR College.
- Designed wireframes and prototypes to visualize the website layout.
- Developed the front-end using HTML, CSS, and JavaScript while ensuring responsiveness.
- Integrated back-end functionalities using PHP and MySQL for database management.

Technical Implementation:

- Implemented a structured content management approach for easy updates.
- Ensured security measures such as input validation and database protection.
- Deployed the website on a secure hosting platform for accessibility.

Challenges and Solutions:

- **Challenge:**
  Optimizing website speed and responsiveness.
  Ensuring smooth database connectivity.
- **Solution:**
  Used image compression techniques and caching strategies.
  Used MySQL with optimized queries to enhance performance.

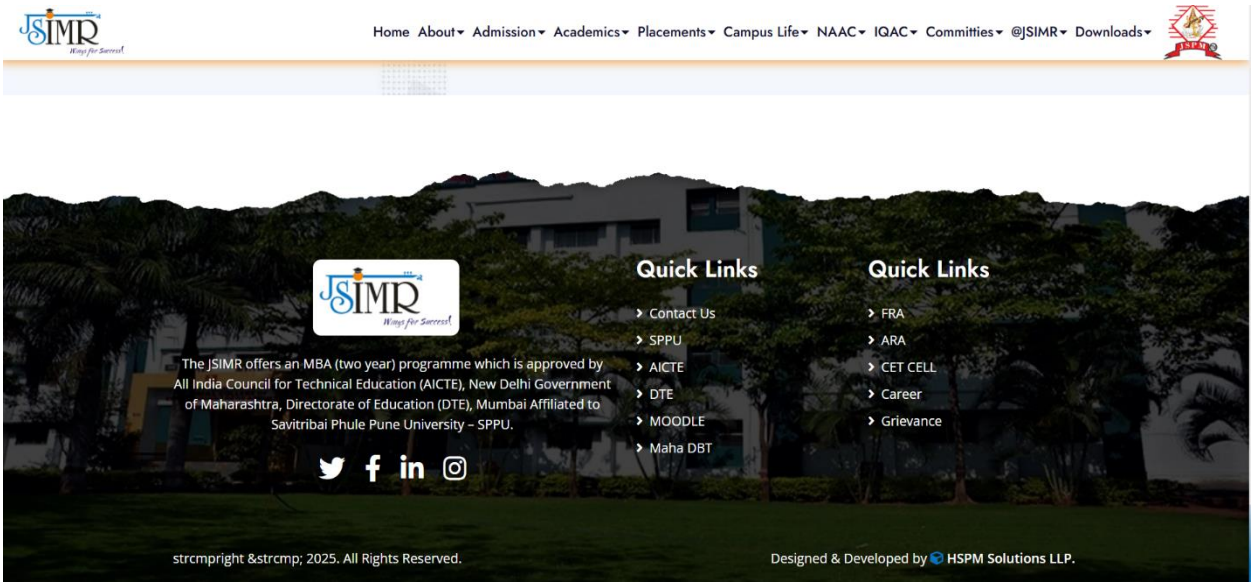
Chapter 5

RESULTS AND DISCUSSIONS

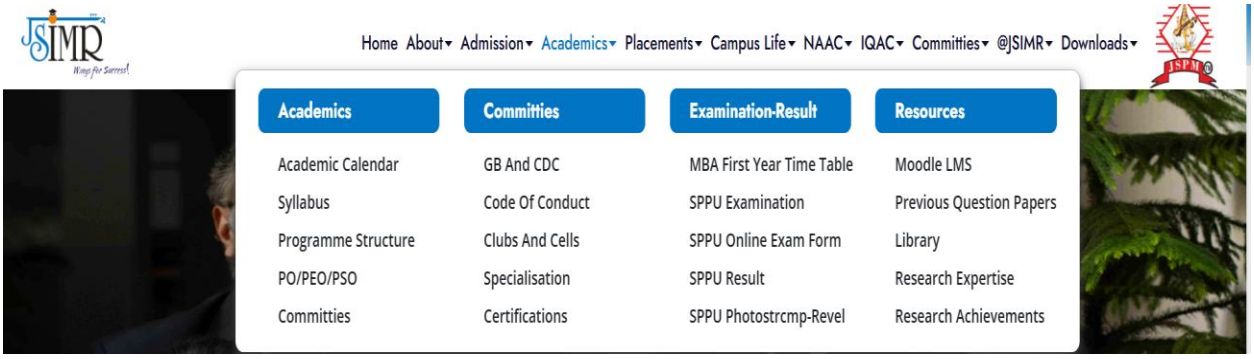
The project successfully met the intended objectives by delivering a fully functional and user-friendly website for JSIMR College. The website improved accessibility to college-related information, enhanced engagement with students and faculty, and streamlined administrative tasks. Key takeaways from the project include the importance of effective planning, iterative development, and collaboration.

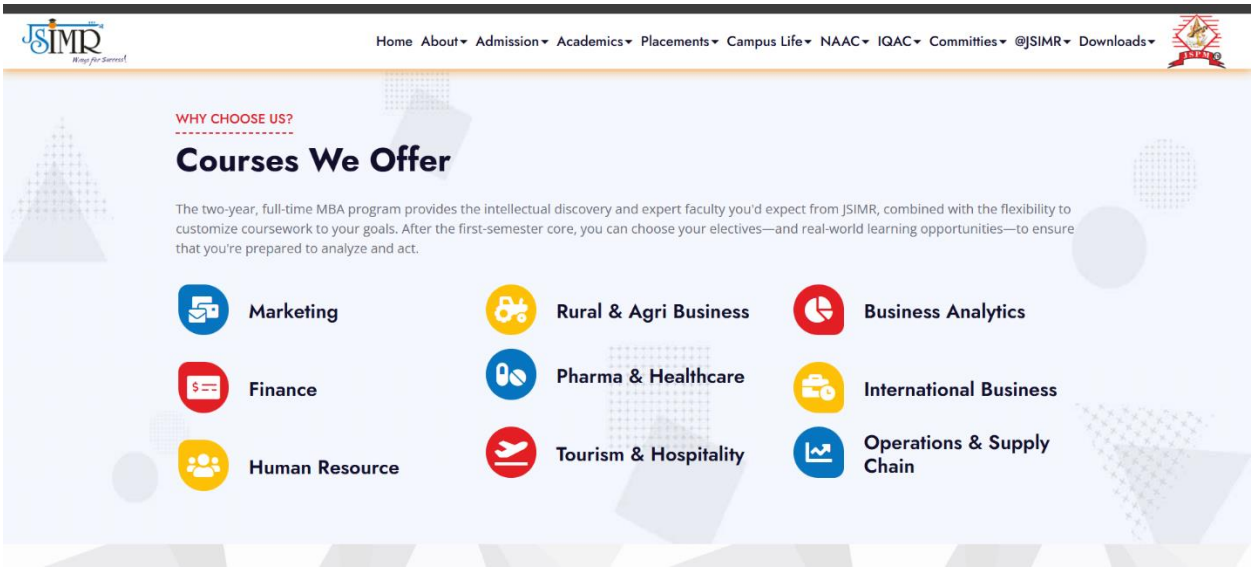
The Header and Navigation Bar:

Footer:



2.Details:





Carousel using Bootstrap:

Chapter 6

FUTURE WORK

Advanced Analytics Integration

Incorporate AI-driven tools for analysing user behaviour and providing actionable insights to improve website performance.

Student and Faculty Portals

Develop dedicated portals for students and faculty with personalized dashboards for academic resources, attendance, and performance tracking.

AI-Powered Chatbots

Implement AI chatbots to handle real-time queries from students and prospective applicants, improving engagement and response times.

Online Learning Management System (LMS)

Extend the website's functionality to include LMS features for online classes, assignment submissions, and resource sharing.

Gamification and Community Building

Introduce gamification elements, such as badges and leaderboards, to encourage user participation in activities and discussions.

API Integration

Enable integration with third-party tools such as payment gateways, online libraries, and social media platforms for seamless user experience.

Multi-Language Support

Expand the website to include multilingual capabilities to cater to a broader audience, including international students.

Enhanced Security Features

Adopt advanced security protocols such as two-factor authentication and AI-based threat detection to safeguard user data.

CONCLUSION

The development of the new website for JSIMR Pune successfully addresses the limitations of the existing platform by providing a modern, responsive, and user-friendly digital solution. The implementation of advanced features such as dynamic content management, interactive tools, and a robust backend enhances the institution's ability to communicate efficiently with its stakeholders. By ensuring mobile compatibility, data security, and scalability, the project not only meets the immediate needs of the institution but also lays the foundation for further growth.

The redesigned website reflects the institution's commitment to excellence and innovation, serving as a valuable tool for attracting prospective students, improving user engagement, and fostering transparency. Overall, the project contributes to strengthening JSIMR Pune's digital presence and aligns with its mission of providing quality education.

REFERENCES

W3C (World Wide Web Consortium). (2021). HTML5 Specification. Retrieved from https://www.w3.org/TR/html5/

- The HTML5 standard, essential for structuring the web pages of the JSIMR website.

MDN Web Docs (Mozilla Developer Network). (2021). CSS3: Cascading Style Sheets. Retrieved from https://developer.mozilla.org/en-US/docs/Web/CSS

- Provides in-depth information on CSS3, which is integral for designing the modern, responsive layout of the JSIMR website.

Google Developers. (2020). Web Fundamentals: Best Practices for Mobile Web Development. Retrieved from https://developers.google.com/web/fundamentals

- This guide offers best practices for building mobile-friendly websites, a key focus for the JSIMR project to enhance accessibility across all devices.

Parker, L., & Moore, R. (2020). Dynamic Website Development: A Practical Guide to Building and Managing Complex Websites. Apress.

- Discusses the implementation of dynamic content and database-driven websites, crucial for maintaining and updating the JSIMR website efficiently.

OWASP (Open Web Application Security Project). (2020). OWASP Top Ten Web Application Security Risks. Retrieved from https://owasp.org

- Covers security risks and best practices, ensuring that the JSIMR website is safe, especially in handling student data and sensitive information.

MySQL Documentation. (2021). MySQL 8.0 Reference Manual. Retrieved from https://dev.mysql.com/doc/refman/8.0/en/

- Provides essential information on database management and optimization used in the JSIMR website's backend development.

Scrum.org (2021). Scrum Guide: The Complete Manual for Scrum: The Game's Rules. The URL was retrieved : https://www.scrumguides.org/scrum-guide.html

- Describes how Agile project management techniques were used to create the JSIMR website.

ANNEXURE I:

Plagiarism Declaration Certificate

Title of Work: CampusConnect: Streamlined Web Solution
Submitted By: VAIBHAV KUMAIN
Institution: K. R. Mangalam University, Gurugram
Department: SOET
Date of Submission: 21st April 2025

I hereby declare that the work entitled" [CampusConnect: Streamlined Web Solution]" submitted for academic evaluation and research purposes is my original work. I confirm that:

- I have acknowledged and properly cited all sources, references, and data included in this work.
- This work does not contain any material previously published, written, or prepared by another person, except where due acknowledgment has been made.
- I understand that plagiarism is an academic offense and a violation of research ethics. Any breach of this declaration may lead to disciplinary action as per university policies.
- I have used appropriate referencing techniques and maintained academic integrity throughout this work.

I affirm that the submitted work has normal plagiarism less than 10% and free from AI content.

Signature of Student: _____

Date: ___21st April 2025_____