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**Internship**

**Brief Report**

**Submitted for the partial fulfillment of the degree of**

**Bachelor of Technology**

**In**

**Computer Science & Design**

**Submitted By**

**Vivek Kumar Dahiya  
0901CD211063**

**UNDER THE SUPERVISION AND GUIDANCE OF**

**Dr. Ashish Tomar  
Assistant Professor**



**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR (M.P.), INDIA  
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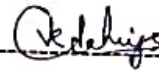
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I further declare that the work reported in this report has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.



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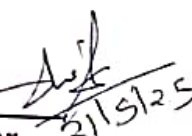
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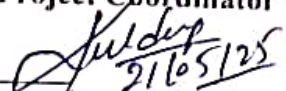
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**Departmental Project Coordinator**

  
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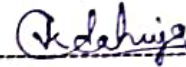
  
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## ABSTRACT

During my frontend development internship, I had the opportunity to work on real-world projects that enhanced both my technical skills and my understanding of user-centered design. My main responsibilities included creating and optimizing responsive web interfaces using HTML, CSS, JavaScript. I collaborated with backend developers and designers to implement features such as dashboards, forms, and dynamic UI elements. This hands-on experience helped me understand how to turn design mockups into fully functional, visually appealing websites that work across various devices and browsers.

The internship not only strengthened my problem-solving skills but also taught me the importance of writing clean, maintainable code and paying attention to user experience. Overall, it was a transformative experience that solidified my interest in frontend development and gave me a clearer perspective on my career path in tech.

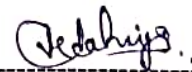
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## ACKNOWLEDGEMENT

The full semester project has proved to be pivotal to my career. I am thankful to my institute, Madhav Institute of Technology and Science to allow me to continue my disciplinary/interdisciplinary project as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme (based on the AICTE Model Curriculum 2018), approved by the Academic Council of the institute. I extend my gratitude to the Vice Chancellor of the institute, **Dr. R.K. Pandit** and Dean, Faculty of Engineering and Technology, **Dr. Manjaree Pandit** for this.

I would sincerely like to thank my department, Department of Computer Science and Engineering, for allowing me to explore this project. I humbly thank **Dr. Manish Dixit**, Professor and Head, Department of Computer Science and Engineering, for his continued support during the course of this engagement, which eased the process and formalities involved.

I am sincerely thankful to my faculty mentor. I am grateful to the guidance of **Dr. Ashish Tomar**, Assistant Professor, Computer Science and Engineering, for her continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



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Vivek Kumar Dahiya

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## CHAPTER 1: INTRODUCTION

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During my frontend development internship at Django Softwares Private Limited, I had the opportunity to contribute to real-world projects by developing the user-facing parts of websites. My primary responsibility was to design and enhance web pages to ensure they were visually appealing, user-friendly, and functioned smoothly across various devices.

I utilized HTML to structure page content, CSS and Bootstrap to style and make the layout responsive, and JavaScript to add interactivity such as buttons, forms, and dynamic user inputs. One of the major projects I contributed to involved a CRM and attendance management system. In this project, I was involved in creating web pages, resolving design-related issues, and optimizing the interface for mobile, tablet, and desktop views.

Throughout the internship, I also gained valuable experience in collaborating with a team, following a structured workflow, and meeting project deadlines—key aspects of working as a professional developer. This internship helped me understand how frontend development is carried out in a corporate setting and gave me hands-on experience in transforming concepts into fully functional web interfaces.

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## CHAPTER 2: OBJECTIVE/PROBLEM STATEMENT

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The primary goal of my internship was to improve the user interface and overall user experience (UI/UX) of internal web-based applications, including a Customer Relationship Management (CRM) system and an attendance monitoring tool used by the company and its clients.

The main challenges I addressed included:

- Enhancing the design and responsiveness of existing web pages that didn't render properly across different screen sizes.
- Resolving UI-related bugs and inconsistencies that impacted user interactions and overall functionality.
- Adding new frontend features in response to client feedback and evolving business needs.
- Making sure all web pages were intuitive, visually consistent, and easy to use, even for users without a technical background.

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## CHAPTER 3: TECHNOLOGY USED

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### □HTML:

Utilized for building the basic structure of web pages by incorporating elements like headings, forms, tables, buttons, and other content components.

### □CSS:

Used to apply visual styling to the web pages, including color schemes, fonts, spacing, and layout adjustments, to improve aesthetics and usability.

### □Bootstrap(CSS Framework):

Leveraged Bootstrap's built-in classes to efficiently create responsive, mobile-friendly designs, which helped maintain consistency across different screen sizes and reduced the need for extensive custom CSS.

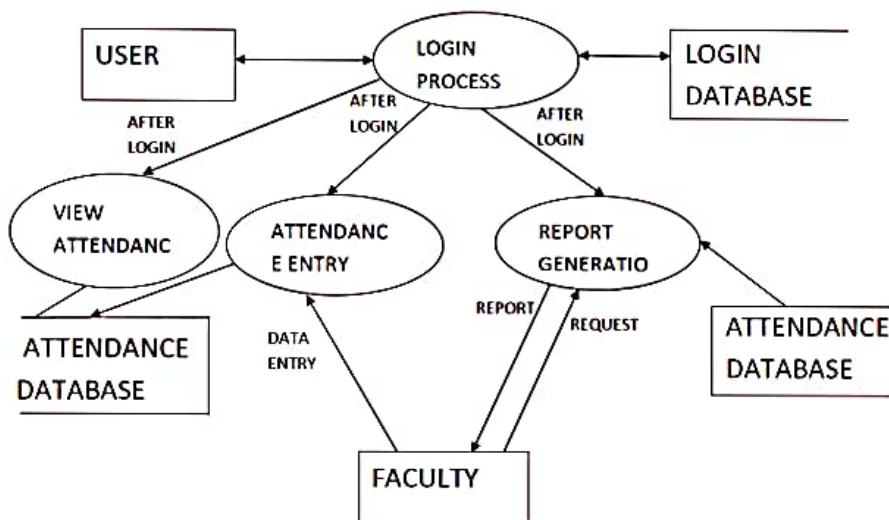
### □JavaScript:

Implemented interactive features and dynamic functionality on the web pages, such as validating form inputs, handling button events, and updating content in real time.

## CHAPTER 4: PROCESSING OF ATTENDANCE SYSTEM

The Attendance Management System functions as a digital alternative to traditional paper registers, allowing for efficient tracking of student attendance. To begin, an admin or teacher logs into the system, selects the relevant class and subject, and marks each student as "Present," "Absent," or "On Leave" for that day. All attendance data is automatically stored in a database, eliminating the need for manual record-keeping.

Teachers and students can later access the system to view attendance details. Students are able to log in and monitor the number of classes they have attended or missed. Additionally, the system can generate monthly summaries and issue alerts if a student's attendance falls below a set threshold. This streamlined approach makes attendance management quicker, more reliable, and significantly more convenient than traditional methods.



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## CHAPTER 5: MODULES/FEATURES

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This project is developed using several key modules, each serving a specific function:

**1. Login Form:**

This module allows users to access the system by entering a valid username and password. Only authenticated users can proceed to use the application.

**2. Main Dashboard:**

Acts as the central interface, offering access to core features such as viewing attendance, entering new attendance data, and generating reports.

**3. View Attendance Module:**

Enables users to check attendance records based on various filters like student name, specific dates, or a complete overview.

**4. Attendance Entry Module:**

Allows authorized users to input daily attendance for students efficiently.

**5. Report Generation Module:**

Generates detailed attendance reports for a specific class, providing a summary of attendance trends over time.

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## CHAPTER 6: DATABASE DESIGN

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In this Attendance Management System, the database is designed with three primary tables to efficiently store and manage data:

### 1. User Login Information

This table manages user authentication by storing essential login credentials. It includes:

- **Login ID:** A unique identifier assigned to each user.
- **Password:** A secure key used for user verification.
- **Status:** Defines the user's role or access rights, such as admin, faculty, or student.

### 2. Class Information

This table holds details related to the courses and subjects available in the system. It includes:

- **Course:** The course name or code.
- **Subject:** The specific subject associated with the course.
- **Start Session:** The date when the class begins.
- **End Session:** The date when the class ends.

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### 3. Attendance Records

This table keeps track of student attendance data. It includes:

- **Roll Number:** A distinct number assigned to each student.
- **Name:** The student's full name.
- **Date:** The day on which attendance was taken.

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## CHAPTER 7: IMPLEMENTATION

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During my internship, I worked on real-world web development projects, focusing primarily on creating and refining the visual and interactive parts of websites—the elements users directly engage with.

My approach involved the following steps:

### 1. Understanding Project Requirements:

I started by analyzing the project objectives to understand what the website needed to achieve. This included reviewing documentation and having discussions with team members to resolve any uncertainties.

### 2. Designing Web Pages:

I used HTML to structure the page elements, including headings, text, images, and links. Then, I applied styling through CSS and Bootstrap to make the layout visually appealing and responsive across various devices such as smartphones, tablets, and desktops.

### 3. Enhancing Interactivity:

To bring the pages to life, I used JavaScript to add interactive functionality. This included features like form validation, real-time updates, and buttons that reacted to user input.

### 4. Testing and Debugging:

Once the pages were built, I tested them thoroughly to ensure all components functioned correctly. Using browser developer tools, I identified and resolved bugs or layout issues, which was essential for delivering a smooth user experience.

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## 5. **Incorporating Feedback:**

After showcasing my work, I received constructive feedback from mentors and teammates. I revised my work based on their input, which not only improved the final output but also helped me learn industry-standard practices.

## CHAPTER 8: SCREENSHOT OF THE WORKDONE

### New entry

Activity

Date From  To

Portion of the day:  All day  
 Morning  
 Afternoon

User

Description

Attendance

Calendar List **Report** Detailed report

From  To

Connie Consultant		spent time	0.00 h	from 56.00 h, ie 0.0 %   56.00 h		
		Attendance	24.50 h	from 59.50 h, ie 41.18 %   35.00 h		
	Hours	Total for year 2024 (Attendance)	Total for year 2024 (Scant time)	Waiting for approval	Remaining days	Allowed days
Office	16.00 h	2.0 Days		-	-	-
Home office	8.50 h	1 Day		-	-	-
Vacation	0.00 h	0		1 Day	-1.0 Days	0
Sick leave	0.00 h	0		0	0	0

Attendance by users

- Christian IT Expert
- Connie Consultant
- Constanze Consultant
- Danny Developer easy admin
- Lisa Lee Petri Kivimäki
- Riky Sales Director

**Edit basic attributes of calendar**

Name: Standard

Work starts at\*: 09:00

Work ends at\*: 17:30

Number of working hours per day: 8.0

Working days of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

First day of week\*: Monday

Default calendar

iCalendar file:  Soubor nevybrň

Import holidays from iCalendar:  [Holiday calendars](#)

Update holidays  Overwrite existing holidays

**Update**

**Detail of calendar**

Holidays

Back to calendars

Search settings

Jump to a setting...

- Budgets
- Attendance settings
- Projects
- Project Templates
- Users
- Groups
- User types
- Working time - Templates
- Roles and permissions
- Task types
- Task statuses
- Workflow
- Task timer settings
- Custom fields
- Custom labels

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## CHAPTER 9: CHALLENGES FACED

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I faced several challenges that contributed significantly to my personal and professional development:

- **Applying Theoretical Knowledge in Real Scenarios**

Although I was familiar with HTML, CSS, and JavaScript from my academic studies, implementing them in actual projects presented a new set of challenges. I had to learn how to write clean, scalable, and maintainable code, which required a deeper understanding and practical adjustment.

- **Adjusting to a Professional Work Culture**

Moving from an academic environment to a corporate setting involved adapting to new ways of communication, collaboration, and task management. Getting accustomed to the tools, workflows, and team dynamics of the company took some time and effort.

- **Improving Time Management Skills**

Handling multiple responsibilities while adhering to project timelines was a valuable learning experience. I had to enhance my ability to prioritize tasks and manage my time efficiently to meet deadlines consistently.

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## CHAPTER 10: CONCLUSION

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My internship at Django Softwares Private Limited was an enriching learning journey. I had the chance to work on practical projects where I utilized my skills in HTML, CSS with Bootstrap, and JavaScript to create and enhance web pages. This practical exposure deepened my understanding of website development and taught me how to design sites that are both user-friendly and responsive.

Collaborating with seasoned developers, I realized the importance of teamwork, adhering to deadlines, and being flexible when facing new challenges. I also gained valuable insights into the development process and the need for writing clean, efficient code.

This internship significantly improved my technical abilities and boosted my confidence as a frontend developer. I appreciate the guidance and support I received throughout this period and look forward to applying these learnings to upcoming projects and career opportunities.

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