

CHAPTER I: INTRODUCTION

1.1 Background of the study

The Bachelor of Information Management (BIM) program combines technology and management skills to prepare students for careers in the IT industry. This program teaches students both technical skills, like coding and system design, and managerial skills, like project management and leadership. One of the most important parts of the BIM program is the internship. The internship helps students use what they have learned in real-life situations and gain practical experience.

Internships are important because they let students explore different career paths and see what they like best. They give students a chance to work in a real company, deal with real problems, and find out what a job in their field is really like.

During my three-month internship at Busy Bee as a Frontend Developer intern, I gained hands-on experience in building and enhancing user interfaces for web applications. My role involved developing responsive and visually appealing web pages, ensuring a smooth and engaging user experience.

I worked with various front-end technologies to implement interactive components and improve website performance. Additionally, I collaborated with the team to debug issues, optimize layouts, and maintain consistency across different devices and screen sizes.

Throughout my internship, I received valuable guidance from experienced professionals, which helped me refine my coding skills and deepen my understanding of frontend development best practices. This experience strengthened my problem-solving abilities and gave me practical exposure to real-world web development projects.

1.2 Objectives of the study

Internship is an excellent opportunity to experience the real-world working

environment and culture, allowing students to apply the knowledge learned during the BIM course in a practical setting. The primary objective of the internship is to bridge the gap between classroom theory and real-world application. The following are the major objectives of the internship program:

1.2.1 General Objectives

- To develop innovative and user-friendly front-end solutions that enhance user experience and engagement.
- To strengthen skills in HTML, CSS, JavaScript, and modern front-end frameworks.
- To analyze and solve front-end development challenges using a problem-solving approach.
- To improve project management and time management skills in a professional environment.
- To conduct research on the latest web development trends and technologies to enhance design and performance.
- To build professional relationships and expand my network within the web development industry.

1.2.1 Specific Objectives

- To develop responsive and visually appealing user interfaces using modern front-end technologies.
- To optimize website performance by improving load time, accessibility, and responsiveness.
- To debug and troubleshoot front-end issues for a seamless user experience.

- To collaborate with UI/UX designers, back-end developers, and other team members for efficient development.
- To manage and organize front-end development tasks systematically for maximum efficiency.

1.3 Methodology

Methodology refers to the detailed explanation of the processes involved in performing an activity or studying a subject. A systematic approach is essential for conducting any study and preparing a thorough report. This internship report is designed to present a clear overview of the tasks and operations completed during my time at Busy Bee.

1.3.1 Organization Selection

Choosing the right organization for an internship is important. As an IT student interested in Front-end, I wanted to join a company where I could effectively apply my interests and skills. I discovered Busy Bee through a referral.

After submitting my CV, I had a phone interview and then an in-person interview, which led to my selection. Busy Bee was a great choice due to its focus on design and development and its supportive learning environment.

1.3.2 Placement

I completed my internship at Busy Bee from January 15, 2025, to April 15, 2025, under the supervision of Sikshya Maharjan. I worked from 10:00 AM to 6:00 PM, Monday to Friday, totaling 8 hours per day and 5 days a week. The workplace was welcoming and collaborative, and I had access to the tools and resources needed for my tasks. I followed guidance from my supervisor and participated in regular discussions to address any issues and receive feedback.

1.3.3 Duration of Internship

According to Tribhuvan University (TU) requirements, BIM students need to complete

a three-month industrial internship. I completed a three-month internship at Busy Bee, exceeding the required duration. My internship lasted for 13 weeks, from January 15, 2025, to April 15, 2025. The details are as follows:

Table 1.3.3: Duration of Internship

Detail	Description
Office Hour	10am – 6pm
Working Hour	8 Hours Per Day
Working Days	5 Days a Week
Internship Period	13 weeks

1.3.4 Activities Performed

During my three-month internship at Busy Bee, I worked on various tasks that helped me grow my skills. The table below highlights the main activities I performed, along with the skills and tools I used:

Table 1.3.4: Summary of Activities Performed During Internship

Week	Task	Skills Used
1	Introduction to the Eurospine and Ueg platform	Eurospine,Ueg, EventsAir, SugarCRM
2	Performed testing for the in progress website for Eurospine and Ueg Interaction with the client	Eurospine,Ueg, EventsAir, SugarCRM
3	Analyzed different React Library using google Search	Google Search
4	Build a Eurospine portal using React and API	Vs Code, React,TypeScript, API integration
5	Tested the Eurospine portal collaborating with client	Google Meet,Teams
6	Build Eurospine Group portal and API	Vs Code, React, Type Script,

		API integration
7	Tested the Eurospine portal collaborating with client	Google Meet, Teams
8	Performed testing for the build in portal (Cirse) and provided presentation	Google Meet, Microsoft Teams
9	Created reusable UI components for upcoming UEG modules	React, TypeScript, CSS
10	Refactored and optimized codebase for the Eurospine group portal	VS Code, React, TypeScript
11	Collaborated with backend team to debug API-related issues and integrate new endpoints	Postman, React, REST API
12	Final round of testing and deployment preparation; documented all frontend workflows	GitHub, Confluence, Microsoft Teams

CHAPTER II: INTRODUCTION OF INDUSTRY

2.1 Introduction to Information Technology Industry

The Information Technology (IT) industry in Nepal has been experiencing rapid growth over the past few years, fueled by increasing digital adoption, improved internet accessibility, and a growing reliance on technology across various sectors. With the rise of digital-first businesses and global outsourcing, Nepali IT companies like Leapfrog Technology, CloudFactory, Fusemachines, and many others are playing a key role in the country's digital transformation.

Among the many disciplines within IT, Front-End Development has emerged as a vital component in building impactful digital solutions. Businesses are increasingly focusing on delivering better user experiences, which has significantly raised the demand for skilled front-end developers. These professionals are responsible for designing and developing the visual and interactive aspects of websites and web applications — the parts that users directly interact with.

In today's competitive digital landscape, a company's online presence begins with a well-designed and responsive website. These websites act as digital storefronts, offering services, information, and products to both local and global audiences. Technologies like HTML, CSS, JavaScript, and frameworks such as React, Vue.js, and Angular have become essential for building fast, scalable, and dynamic user interfaces.

As Nepal continues its journey toward digitalization, the need for skilled front-end developers is growing rapidly. The ability to design, develop, and maintain intuitive digital interfaces is now a crucial skillset in meeting the evolving expectations of users and businesses alike. Whether for mobile apps, websites, or enterprise platforms, front-end development is at the forefront of digital innovation in Nepal's IT industry.

2.2 Challenges and Opportunities

Despite the rapid growth and potential of the IT industry in Nepal, there are several

challenges that hinder its development.

2.2.1 Challenges

The IT industry in Nepal faces several challenges that need to be addressed to ensure sustained growth and competitiveness:

- Gap between industry-required skills and the skills possessed by graduates.
- Significant brain drain as skilled professionals seek opportunities abroad.
- Difficulty in securing funding for startups and small businesses.
- Need for education and support for businesses to adopt digital solutions.
- Increased risk of cyber threats with growing use of digital platforms.
- Lack of investment in research and development.

2.2.2 Opportunities

The IT industry in Nepal presents numerous opportunities that can drive its growth and development:

- Rising demand for Web design and development.
- Large, tech-savvy youth population eager to innovate.
- Increasing internet access across the country.
- Cost-effective labor market attracting international outsourcing.
- Expanding IT education and training programs.
- Opportunities for global IT services through freelancing and remote work.

2.3 Scope of Information Technology

The scope of Information Technology (IT) in Nepal is vast and growing, touching various sectors and applications. IT is crucial for driving innovation, efficiency, and connectivity across industries. These diverse applications highlight the extensive role IT plays in Nepal's economic and social development.

Below listed are the areas of scope for an IT Graduate:

- Digital marketing and e-commerce
- Software development for various industries
- Web and mobile app development
- IT infrastructure and networking
- Cybersecurity
- Cloud computing
- Artificial Intelligence (AI) and Machine Learning (ML)

CHAPTER III: INTRODUCTION OF ORGANIZATION

3.1 Introduction of Organization

Busy Bee is a growing organization focusing on technological solutions for events. It is located in Thankot 03, Chandragiri. The company aims to create the waves in the world of event technology. Busy Bee's experts come from a variety of diverse event technology backgrounds with years of experience. As a result, we won the 2022 "Favourite Event Technology Supplier" at Event Tech Live, as well as other awards for "Best Digital Agency", "Best Event Technician" and "Best Founder".

3.2 Objectives

Busy Bee aims to provide top-notch solutions that help businesses gain their technological solutions. The company focuses on delivering data-driven strategies tailored to each client's unique needs. It leverages the latest and best practices to ensure your website not only looks great but also functions flawlessly across all devices.

The major objectives of the company are listed below:

- Specialize in transferring raw data into meaningful insights.
- Building user-friendly, responsive websites that are optimized for performance and accessibility.
- Crafting innovative and intuitive mobile applications which tailored the needs.
- Maintain high standards of quality and client satisfaction.
- Foster a collaborative and results-oriented environment for clients and team members.

3.3 Services Offered

Busy Bee offers a variety of services designed to help businesses succeed online. With the web expertise, you can effectively reach your audience, enhance your digital

presence, and drive business growth.

3.3.1 Custom Architecture

From seasoned recommendations and initial configuration to maintenance and management, the company architects work with the custom development team to get exactly what the client is looking for in the events site. The company also offers custom widgets for when the client needs to take things to the next level.

3.3.2 Event Tech Consulting

The Busy Bee Team reviews the client's tech stack and makes sure everything flows as seamlessly as possible. It works to design a process from the top down, delivering fully functional solutions that can help saving time and money. The team excels in sourcing technology solutions that aligns with your event's need and budget. One of the key strength of the company lies in alleviating the stress and uncertainty that often accompany event technology planning.

3.3.3 Custom Solutions and Development

As a leader in the event technology industry, the organization understands the importance of creating memorable and engaging experiences for the client's attendees. That's why they offer a wide range of customizable tools designed to elevate the event site and enhance the overall attendee experience. Their customizable tools are designed to bring the event site to life, transforming it into an immersive and interactive platform.

3.4 Vision of the Company

Busy Bee envisioned a future where every event is elevated by smart, integrated technology, enabling organizers to focus on creating unforgettable experiences. By pioneering tailored digital solutions and leading with creativity and precision, we aim to be the most trusted partner in the global event technology landscape.

3.5 Mission of the Company

Busy Bee's mission is to empower events through innovative and customized

technology solutions that streamline operations, enhance user experience, and transform ideas into engaging digital platforms. We are committed to helping clients achieve seamless event execution through expert consulting, custom architecture, and interactive development that saves time, reduces stress, and maximizes impact.

3.6 Organizational Structure

The organizational structure of Busy Bee is designed to efficiently manage its operations and ensure effective delivery of services. The company is led by a Managing Director who oversees all departments and teams. Below is an overview of the organizational structure:

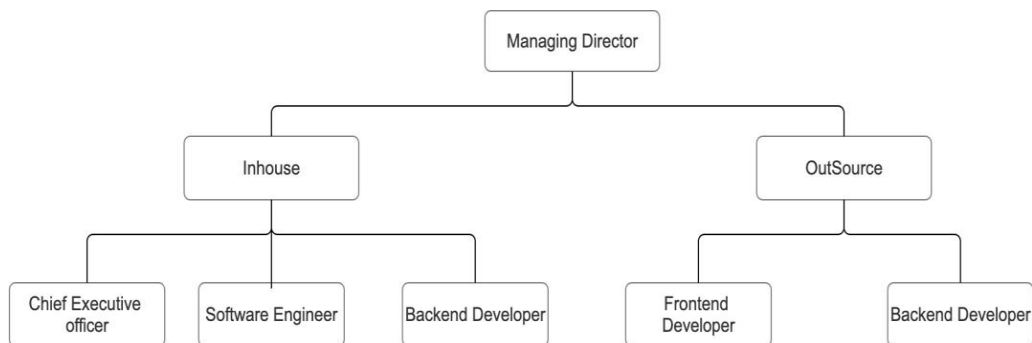


Fig 3.6 : Organization Structure of Busy Bee Pvt. Ltd

3.7 Contact Details

Table 3.7: Contact Details

Organization	: Busy Bee Softwares Pvt. Ltd
Address	: Thankot, Kathmandu
Website	: site.webcreationcanada.com/busy_bee/
Organization Email	: info@busybee.com
Email	: himanshu@busybeesoftwares.com

CHAPTER IV: ANALYSIS OF ACTIVITIES DONE AND PROBLEM SOLVED

4.1 Analysis of Activities performed

During my internship at Busy Bee, I worked primarily as a Front-end Developer, where I contributed to the development and enhancement of web interfaces for client and internal projects. My responsibilities included designing responsive UI components, implementing interactive features using HTML, CSS, JavaScript, and React, and collaborating closely with the design and back-end teams to ensure smooth integration. In addition to front-end tasks, I was also involved in basic QA processes such as testing UI functionality, identifying bugs, and verifying responsiveness across devices and browsers. This internship gave me valuable hands-on experience with modern front-end workflows and introduced me to the importance of quality assurance in delivering reliable and user-friendly applications. It helped me strengthen both my technical and collaborative skills in a real-world development environment.

4.2 Design Tools and Software Setup

In frontend development, **design tools** help developers see how the website or app should look and feel. These are used by UI/UX designers to create layouts, colors, buttons, and more.

Popular Design Tools:

- **Figma** – for designing and sharing UI designs
- **Adobe XD** – for wireframes and clickable prototypes
- **Sketch** – for designing interfaces (mostly used on Mac)
- **Canva** – for simple graphic design tasks

Common Software Setup Tools:

- **VS Code** – a popular code editor for writing frontend code
- **Git & GitHub** – for version control and sharing code
- **npm or yarn** – to install and manage project libraries
- **Browser DevTools** – for testing and fixing layout or styling issues
- **Terminal/Command Line** – to run development commands

4.3 Responsibilities Assigned

At Busy Bee, I was responsible for a variety of tasks focused on front-end development that helped me enhance both my technical skills and practical understanding of building interactive user interfaces. Below mentioned are some of the responsibilities that I was assigned:

4.3.1 UI Testing & Bug Identification

In the initial days, I tested existing web apps like Ueg and Eurospine and EventsAir to find bugs, check responsiveness, and ensure proper layout across different devices and browsers.

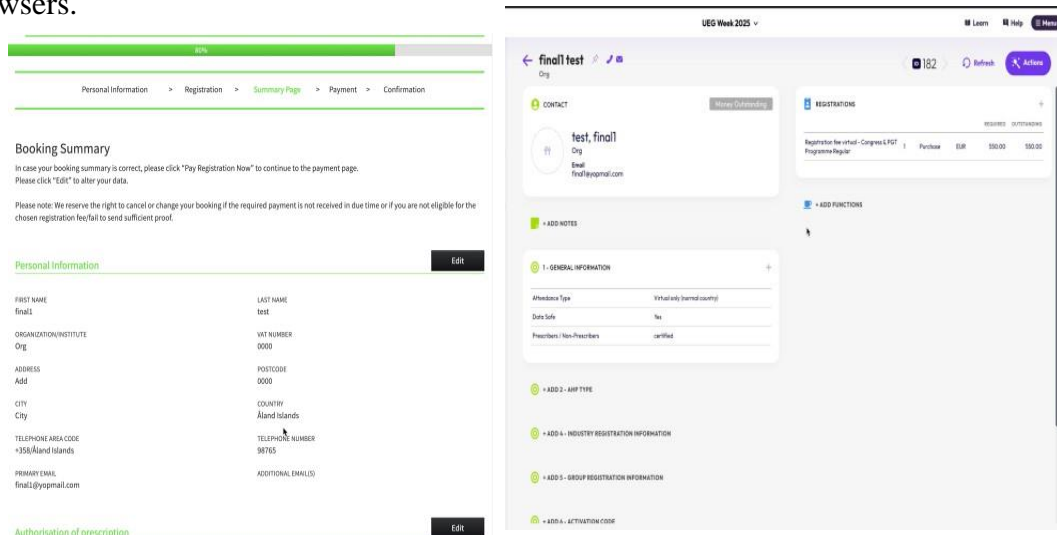


Fig 4.3.1: UI Testing

4.3.2 Client Website Design and Development

I designed and developed a responsive webpage for a client using HTML, CSS, JavaScript, and React, focusing on clean UI and smooth user experience.

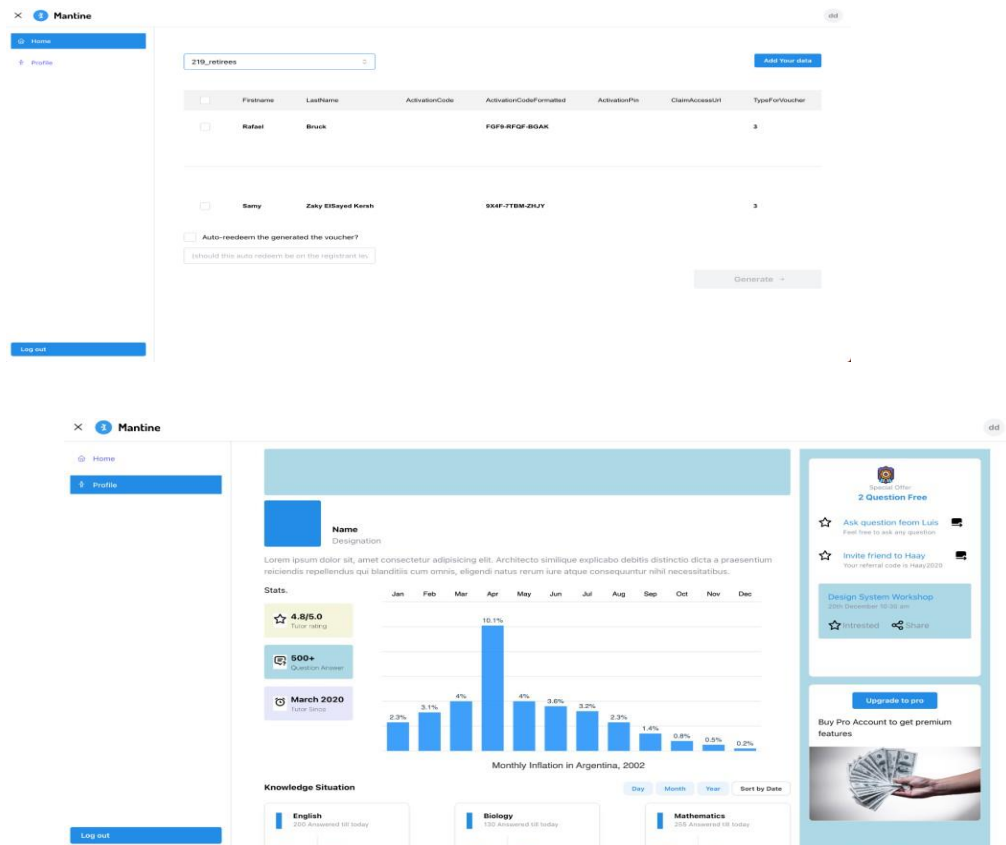


Figure 4.3.2 Website for Clients

4.3.3 Group Portal Interface Creation

I created a group portal interface with interactive features, ensuring usability, consistency, and mobile-friendliness.

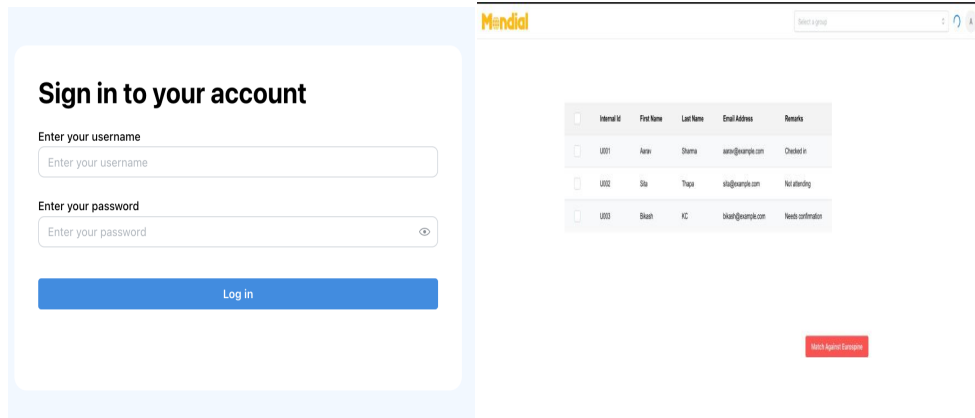


Figure 4.3.3 Group Portal Interface Creation

4.3.4 Collaboration with Team

I worked closely with designers (using Figma) and developers to implement UI changes and align the final output with project requirements.

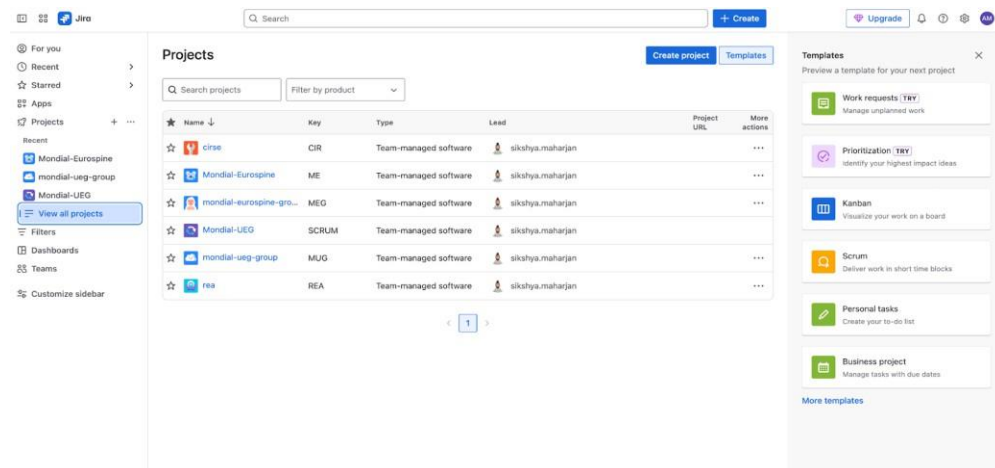


Fig 4.3.4 Collaboration with team

4.4 Analysis of Tasks

Throughout my internship at Busy Bee, I worked on a range of frontend development tasks that significantly strengthened my technical skills and practical experience. In the initial phase, I was involved in testing UI components to ensure responsiveness and functionality across different browsers and devices.

One of my key responsibilities was developing a complete webpage for a client and a group portal interface using modern frontend technologies like React and Mantine. I focused on creating clean, reusable components and implementing visually consistent designs based on UI/UX best practices.

Additionally, I participated in regular feedback sessions and client meetings, where I demonstrated progress, discussed design adjustments, and implemented feedback efficiently. I also collaborated with team members to debug and enhance existing UI features, contributing to a smoother user experience and optimized performance.

4.5 Major Tools

During my internship at Busy Bee, I used several key tools to perform my tasks effectively. These tools played a crucial role in optimizing workflows, improving content quality, and effectively managing projects.

4.5.1 VS Code

My main code editor, equipped with helpful extensions for linting, formatting, and version control, making development smoother. Vs Code were used to develop various react project like Ueg and Eurospine.

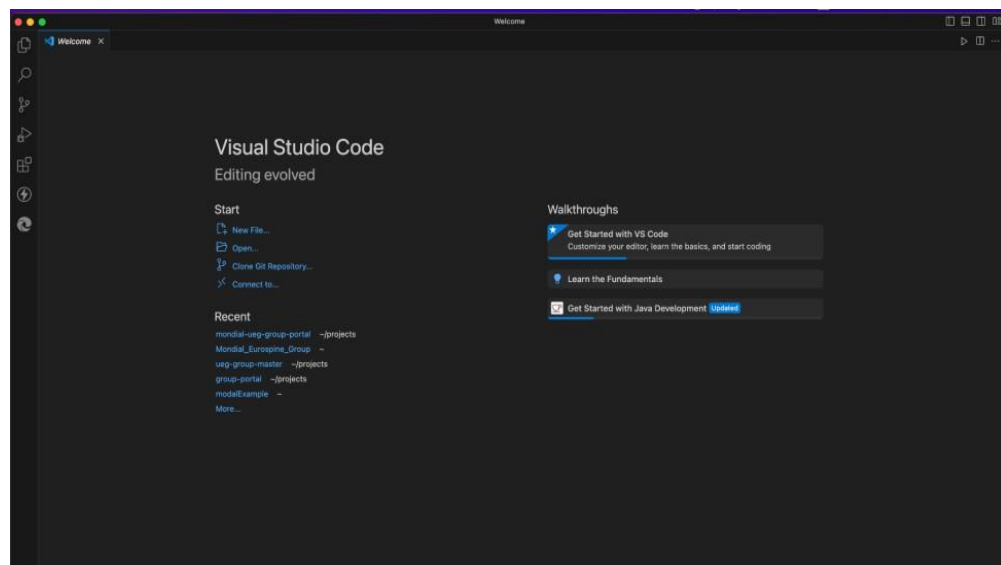


Figure 4.5.1 Vs Code

4.5.2 Git & Github

Used for version control, managing code changes, and collaborating with teammates by pushing updates and reviewing pull requests. Github is used to share various files and work done among the team.

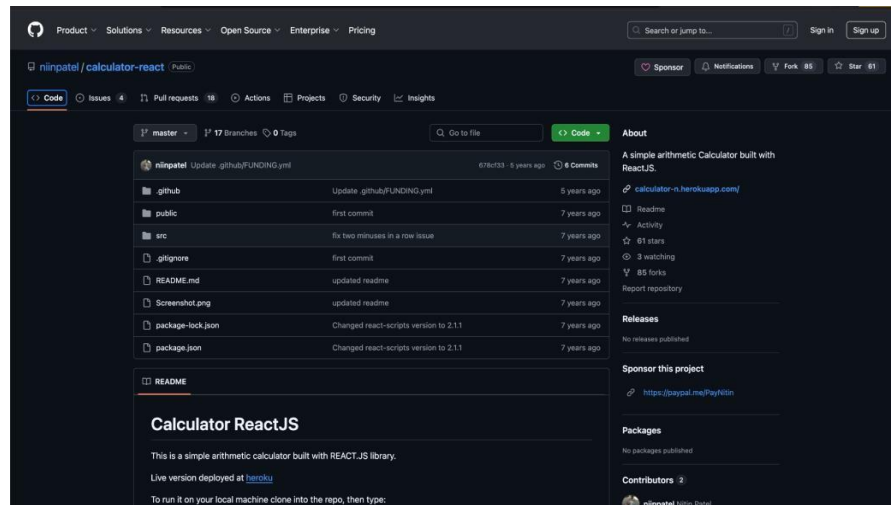


Figure 4.5.2 Github

4.5.3 Mantine

A modern React component library that helped me build responsive and accessible UIs quickly with pre-designed components like tables, buttons, modals, etc. Mantine library is used to develop the websites that provided built-in components.

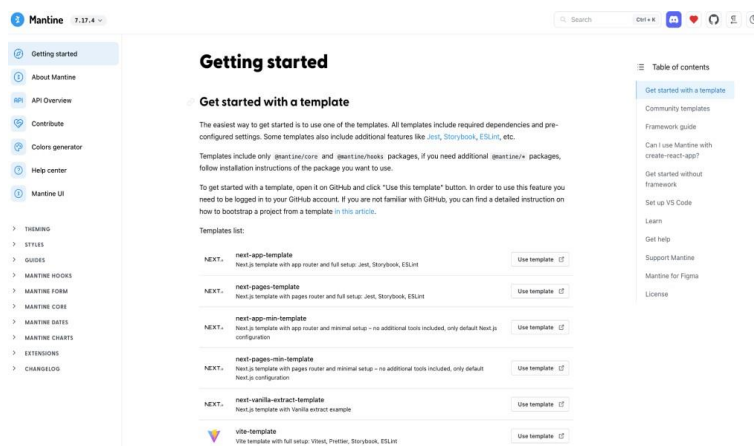


Figure 4.5.3 Mantine Library

4.5.4 Jira

Jeera is a project management tool used for tracking tasks, bugs, and overall project progress. In frontend development, it helps organize work into sprints, assign tasks to team members, and monitor development stages, making collaboration and delivery more efficient. Jira is Used in the organization to keep track of the work and its completion.

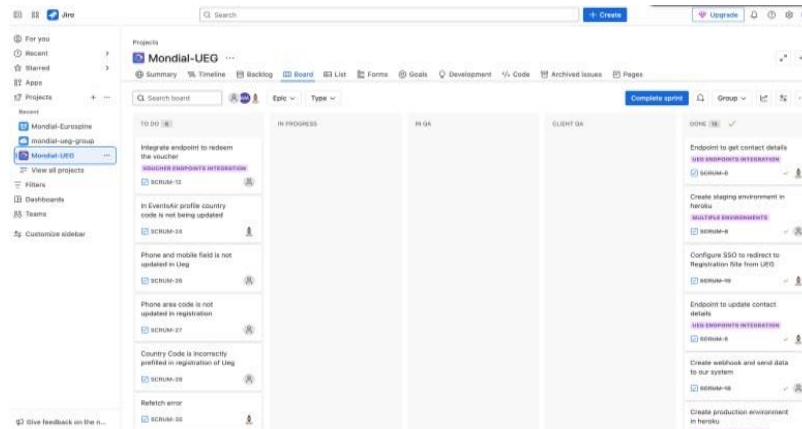


Figure 4.5.4 Jeera for tracking the updates

4.5.5 Excel

I used Excel for content planning and keyword tracking, which helped organize blog schedules and manage keyword research data relevant to frontend structure. This tool enabled efficient documentation and strategic planning, ensuring a structured approach to implementing user- focused content and interface features. It was also used in our project to maintain documents and outline requirements for frontend development and project generation.

Sessions						
1	Filter Case #1	Filter Case #1	Filter Case #2	Filter Case #2	Filter Case #3	Filter Case #3
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Figure 4.5.5 Excel to store planning details

CHAPTER V: CONCLUSION AND LESSON LEARNT

5.1 Conclusion

My internship at **Busy Bee** was an enriching experience that helped me bridge the gap between academic knowledge and real-world application in the field of frontend development. Over the course of three months, I actively worked on designing and developing user interfaces, building responsive web pages, and testing components for usability and functionality. By working with tools such as **React**, **Mantine UI**, **Figma**, **Jeera**, and **Google Meet**, I was able to collaborate effectively with the team, gather client feedback, and implement UI improvements. This experience enhanced my skills in modern frontend technologies, user-centered design, and project-based teamwork—preparing me for future roles in the UI/UX and frontend development domain.

5.2 Lessons Learnt

This internship provided me with valuable learning opportunities that will greatly support my future career in frontend development:

- **Client Interaction:** Participating in regular client meetings taught me the importance of effective communication, understanding client requirements, and translating feedback into visually appealing and functional UI components.
- **Team Collaboration:** Working closely with designers and backend developers helped me understand how coordination across different roles is essential to delivering a cohesive and high-performing product.
- **Adaptability:** Throughout the internship, I had to adapt to new tools, frameworks, and client preferences, which helped me stay flexible and open to continuous learning in a fast-evolving tech environment.
- **Project Management Tools:** Using platforms like Jeera for task tracking and Google Meet for daily discussions improved my ability to manage tasks, prioritize work, and deliver projects on time.

Additionally, one of the challenges I faced was ensuring cross-browser compatibility and responsiveness across different screen sizes. I solved this by testing layouts and refining components using CSS and utility-first frameworks, which strengthened my problem-solving and technical debugging skills. These experiences have equipped me with a practical understanding of frontend workflows and enhanced my confidence as a developer.

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APPENDICES

Sign in to your account

Enter your username

Enter your username

Enter your password

Enter your password

Log in

Appendix 1:Login Page for the Group Portal

Select Group

Name	Email	Eurospine ID	Participation ID
John Doe	john.doe@example.com	E001	P101
Jane Smith	jane.smith@example.com	E002	P102
Alex Johnson	alex.johnson@example.com	E003	P103
Emily Davis	emily.davis@example.com	E004	P104
Michael Brown	michael.brown@example.com	E005	P105

Match Against Eurospine

Appendix 2:Integrating the group for Mondial Ueg

Mondial

Select a group

<input type="checkbox"/>	Internal Id	First Name	Last Name	Email Address	Remarks
<input type="checkbox"/>	U001	Aarav	Sharma	aarav@example.com	Checked in
<input type="checkbox"/>	U002	Sita	Thapa	sita@example.com	Not attending
<input type="checkbox"/>	U003	Bikash	KC	bikash@example.com	Needs confirmation

Match Against Eurospine

Appendix 3: Integrating the Group for Mondial Eurospine

Mantine

Home

Profile

Log out

219_retirees

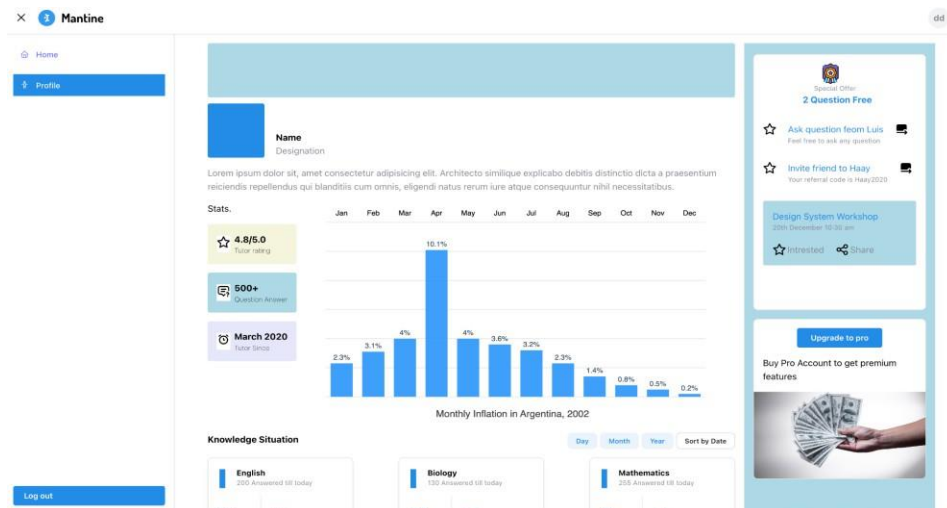
Add Your data

<input type="checkbox"/>	Firstname	Lastname	ActivationCode	ActivationCodeFormatted	ActivationPin	ClaimAccessUrl	TypeForVoucher
<input type="checkbox"/>	Rafael	Bruck		FGFS-RFGF-BQAK			3
<input type="checkbox"/>	Benny	Zaky ElSayed Karah		SKKF-TTSM-ZHJY			3

☐ Auto-redeem the generated the voucher?
(should this auto redeem be on the registrant in)

Generate

Appendix 4: Integrating the Group Members



Appendix 5: Constructing profile page using React