

Report of Internship done at Zapcom Solutions PVT LTD

An Internship Report for

Course code and Course Title: CSA-652 Industry Internship

Credits: 16

Submitted in partial fulfillment of master's degree

Master Of Computer Application

By

SUYOG SURENDRA CHARI

2230

ABC ID: 814066486712

PRN: 201808029

Under the Mentorship of

SANDEEP VYAS

Software Developer at Zapcom Solutions PVT LTD

Goa Business School

Department Of Computer Science and Technology



GOA UNIVERSITY

Date: June 2024

Examined by:
school/Dept

Seal of

DECLARATION BY STUDENT

I hereby declare that the data presented in this Internship report entitled, “An Industry Internship Report at Zapcom Solutions Pvt Ltd” is based on the results of investigations carried out by me at Zapcom Solutions Private Limited, under the mentorship of Mr. Sandeep Vyas and the same has not been submitted elsewhere for the award of a degree or diploma by me. Further, I understand that Goa University or its authorities will not be responsible for the correctness of observations / experimental or other findings given in the internship report/work.

I hereby authorize the University authorities to upload this internship report on the University repository or anywhere else as the UGC regulations demand and make it available to anyone as needed.

Date: 12 June 2024

Suyog Chari

Place: Goa University

Seat No: 2230

COMPLETION CERTIFICATE

This is to certify that the internship report “An Industry Internship Report at Zapcom Solutions Pvt Ltd” is a Bonafide work carried out by Mr. Suyog Chari under my mentorship in partial fulfilment of the requirements for the award of the degree of Master of Computer Application in the Discipline of Computer Science and Technology at Goa Business School, Goa University.

Date: 12 June 2024

Sandeep Vyas

Offer Letter



2nd January 2024

Mr. Suyog Surendra Chari
Mobile # 7768984419

LETTER OF INTERNSHIP

Dear Suyog,

Congratulations!

Consequent to your conversation held with us, we are pleased to offer you an internship as "**Intern**" at Zapcom Solutions Pvt Ltd on the terms and conditions mentioned below:

Current Place of Posting: Bangalore
Stipend: Rs.25,000/- per month
Internship Start Date: 8th January 2024

This internship is for a period of **6 months** and based on your performance the company will evaluate full time opportunity for you with the organization. You are obliged to observe the work regulations in force at Zapcom, as far as the punctual beginning and ending of work within the working hours binding for the employees of Zapcom, the discipline at work and the reliable work performances are concerned.

During that term, company may terminate this agreement for any reason or no reason with fifteen (15) days' notice. The terms of this Agreement shall be governed by and interpreted in accordance with the laws of India.

You will be given a laptop and its accessories during the training in Zapcom. The same will have to be returned by you to Zapcom on completion of the training.

Please sign and return the duplicate copy of this letter in token of your acceptance. We look forward to welcoming you in the organization on **8th January 2024** at 11 am.

Yours faithfully,

For ZapCom Solutions Pvt Ltd,

SRINIVAS KOTHAKOTA
COO

Accepted

INDIA:
Zapcom Solutions Pvt. Ltd
9th Floor, Gamma Tower, Sigma Soft Tech Park,
Whitefield, Bangalore - 560066
Ph: +91-80-67232300

www.zapcg.com

USA
Zapcom Group Inc.
105 Decker Court, Ste. 810 Irving,
TX 75062.
Ph: (972)441-2081

INTERNSHIP CERTIFICATE



31st May 2024

TO WHOMSOEVER IT MAY CONCERN

This is to inform you that **Mr. Suyog Chari, ZC00612** is currently undergoing internship at our company, **Zapcom Solutions Pvt. Ltd** from 8th January 2024.

During his tenure he has met the expectations of his team lead/mentor/guide and found to be regular and sincere.

This letter is being issued on his request to be submitted with the project report at Goa University.

For Zapcom Solutions Pvt. Ltd.

A handwritten signature in black ink, appearing to read "Srinivas Reddy Kothakota".

Srinivas Reddy Kothakota
Chief Operating Officer

INDIA
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Ph: (972)441-2081

ACKNOWLEDGMENTS

I would like to express my deepest gratitude to the following individuals and teams for their invaluable support, guidance, and encouragement throughout my internship at Zapcom Solutions

I am immensely grateful to Mr. Kishore Pallamerreddy for providing me with the opportunity to intern at Zapcom Solutions. His vision and leadership have created a dynamic and enriching work environment that fosters growth and learning.

My heartfelt thanks go to Mr. Sandeep Vyas for his dedicated mentorship and guidance. His expertise and insights in full-stack development have been instrumental in shaping my skills and knowledge during this internship.

I also appreciate the HR and Accounts teams at Zapcom Solutions for their assistance throughout the internship. Their support in administrative matters and ensuring a smooth experience is highly valued.

I am thankful to Mr. Hanumant Redkar for offering me this internship opportunity. His support and encouragement have played a crucial role in shaping my career trajectory.

I would like to acknowledge and appreciate the efforts of all the teaching and non-teaching staff at Goa University. Their dedication and commitment to providing quality education have laid a strong foundation for my academic journey.

Lastly, my heartfelt gratitude goes to my family and friends for their unwavering support, love, and encouragement throughout my internship. Their belief in my abilities and constant motivation have been the driving force behind my success. I am truly privileged to have been surrounded by such remarkable individuals and teams who have significantly contributed to my growth and development. Thank you all for your unwavering support and guidance.

EXECUTIVE SUMMARY

ORGANIZATION OVERVIEW

Zapcom Group is a global leader in product engineering and technology services, specializing in custom software solutions for the Travel, Hospitality, Fin-Tech, and Retail industries. Headquartered in California, with offices in Dublin, Dallas, Bangalore, Hyderabad, and San Jose, Zapcom leverages its global presence to deliver innovative solutions tailored to client needs. The company's success is driven by a high-performing team and a leadership cadre with extensive experience in technology consulting and product engineering. By embracing the latest technological advancements, Zapcom ensures its clients remain competitive in an ever-evolving market landscape.

TASKS HANDLED

During my internship, I worked on several key projects including the Hoya Visionary Alliance, Candidate Management System, Task Master, Pokedex Application, and participated in the Zapminds Ideathon and Hackathon. My tasks involved implementing form validation, developing user interfaces using Material UI, integrating APIs, and managing data-driven applications. I gained hands-on experience with form validation, real-time data processing, and creating responsive and user-friendly interfaces. Additionally, I contributed to the development of a platform for predicting optimal flight booking times using AI models, which earned recognition in company events.

LEARNINGS

Throughout the internship, I extensively used modern tools and technologies such as React.js, TypeScript, Material UI, Node.js, and MongoDB. I also delved into advanced JavaScript concepts and state management with Redux. My learning was supplemented by various online courses and self-study resources covering essential development skills and new frameworks. I honed my ability to integrate REST APIs, manage complex state, and implement robust front-end designs, significantly enhancing my technical proficiency and problem-solving capabilities.

CHALLENGES FACED

The internship presented several technical challenges, including mastering new frameworks like React.js and managing API integrations. Balancing multiple high-priority tasks across different projects was demanding, often requiring work beyond regular hours. Effective time management and maintaining productivity under tight deadlines were crucial. Additionally, communication and coordination with teams across different time zones posed challenges, necessitating adaptability and proactive engagement to align with varying requirements and work styles. These experiences collectively fostered resilience and improved my ability to navigate complex project environments.

CONTENTS

Chapter	Particulars	Page Numbers
	Offer Letter	III
	Internship Certificate	IV
	Acknowledgments	V
	Executive summary	VI
1.	Organization/Company	
	Birds-eye-view	
	Products/services	
	Sections within the organization	
2.	Task(s) handled	5 - 12
3.	Learning	13 - 17
4.	Challenges	18 - 19
	Appendix I	20
	Appendix II	27

CHAPTER 1: ORGANIZATION/COMPANY

1.1 BIRDS EYE VIEW OF ZAPCOM GROUP

Zapcom Group stands as a global frontrunner in product engineering and technology services, dedicated to crafting custom software solutions that empower partners to meet their business objectives with precision and efficiency. With a strategic focus on the Travel, Hospitality, Fin-Tech, and Retail industries, Zapcom has established itself as a hub of innovation and technological excellence. The company's headquarters in California are complemented by a global presence, with offices in Dublin (California), Dallas (Texas), Bangalore (India), Hyderabad (India), and San Jose (Costa Rica). This geographical distribution allows Zapcom to engage closely with clients worldwide, ensuring that their unique needs and challenges are addressed with tailored solutions.

The hallmark of Zapcom's success lies in its high-performing team, which brings together expertise in disruptive innovative ideas and emerging technologies. The leadership team, comprising industry veterans with extensive experience in technology consulting, product engineering, and custom solution development, drives the company's strategic vision and operational excellence. Zapcom's commitment to leveraging the latest technological advancements ensures that their clients stay ahead of the curve, adapting swiftly to market changes and evolving customer expectations. By fostering a culture of continuous improvement and agility, Zapcom consistently delivers exceptional value and supports its clients in achieving sustained growth and success.

1.2 PRODUCTS AND SERVICES OF ZAPCOM GROUP

Zapcom Group offers an expansive range of products and services meticulously designed to cater to the dynamic needs of modern businesses. At the core of their offerings is custom software development, where they create bespoke solutions that align perfectly with the specific requirements of their clients. Specializing in scalable platform development, Zapcom has built numerous advanced systems, such as travel connectivity platforms that integrate various services like Expedia and Agoda, and personalized cruise shopping experiences that leverage AI to offer tailored recommendations.

In the realm of data solutions, Zapcom excels in transforming raw data into valuable insights. Their services include data migration, engineering, visualization, and machine learning (ML) engineering, helping businesses harness the power of data to drive decision-making and innovation. Their cloud platform services focus on optimizing performance, reliability, and cost-efficiency, with expertise in cloud-native development, app modernization, and cloud transformation. Additionally, Zapcom's enterprise asset management services enable businesses to integrate multiple facets of their operations, fostering reusable technical assets that deliver consistent innovation.

One of their standout projects, AI Model Life Cycle Management, showcases their ability to develop sophisticated machine learning platforms that enhance product and service quality in the hospitality industry. By employing Agile and Scrum methodologies, ZapCom ensures that their project delivery is not only efficient but also adaptive to the changing needs of their clients, ultimately driving measurable business value and competitive advantage.

1.3 ORGANIZATIONAL STRUCTURE AND ORGANIGRAM OF ZAPCOM GROUP

Zapcom Group's organizational structure is crafted to promote innovation, agility, and operational efficiency, with a clear focus on client success and technological excellence. At the helm is Kishore Pallamreddy, the Founder and CEO, whose visionary leadership steers the company's strategic direction. The executive team includes Sai Konda as the Chief Information Officer, overseeing the company's information technology strategies; Srinivas Kothakota, the Chief Operating Officer, managing daily operations and ensuring seamless execution of projects; Deepak Puranam, the Chief Product Officer, driving product development and innovation; Paul Lehman, the Chief Commercial Officer, leading business development and client relationships; and Pooja Parthi, the Head of HR, focusing on talent acquisition and organizational culture.

The company also benefits from the strategic insights of its Board of Advisors and Directors, featuring seasoned professionals like Jim Fitzpatrick and Joan Khuel, who provide valuable guidance on industry trends and corporate governance. Kumar Saurabh Johny, as the Head of Innovation and AI Strategy, spearheads initiatives in emerging technologies and artificial intelligence, ensuring that Zapcom remains at the forefront of tech advancements.

Zapcom's internal structure is divided into several key departments, each specializing in critical areas of the business. These include Product Development, where innovative software solutions are conceptualized and built; Data Solutions, which focuses on data engineering and analytics; Cloud Platforms, dedicated to optimizing cloud infrastructure and services; and Enterprise Asset Management, which handles the integration and management of business operations. Each department is staffed with skilled professionals who are committed to delivering high-quality solutions and achieving client satisfaction.

This well-organized yet flexible structure allows Zapcom to respond swiftly to market demands and client needs, ensuring that they can provide tailored, effective solutions in a rapidly changing technological landscape. By maintaining a collaborative and client-centric culture, Zapcom continues to enhance its service offerings and deliver exceptional value to its global clientele.

CHAPTER 2: TASKS HANDLED

2.1 HOYA VISIONARY ALLIANCE PROJECT

2.1.1 PROJECT OVERVIEW

In the project, I was tasked with implementing validation for input forms to enforce mandatory input for all fields. This ensures that users provide all required information.

Working schedule: 9am to 6pm

2.1.2 TYPE OF TASKS:

- Identify all fields requiring input.
- To mark mandatory fields clearly
- To implement validation for mandatory fields
- To provide user feedback for missing inputs.
- To ensure consistency across UI components
- To enable/disable navigation buttons based on input status
- To validate inputs in real-time.

2.1.3 HANDS ON EXPERIENCE

During my project, I gained hands-on experience in form validation and user interface enhancement. I meticulously reviewed the form to determine all necessary shipping information fields, marking the mandatory fields with an asterisk (*) and a label for clear identification. To ensure data integrity, I implemented a system that prevents advancement or submission if any mandatory field is left blank. Additionally, I added informative error

messages next to or below each mandatory field that is left blank, guiding users to provide the required inputs. This mandatory input validation was applied uniformly across all forms, dialog boxes, and input sections, ensuring consistency throughout the application.

Furthermore, I configured navigation buttons, such as "Next" and "Submit," to be disabled by default and enabled only when all mandatory fields were completed. I also implemented real-time validation to provide immediate feedback as users input data, enhancing the user experience. To ensure robust validation functionality, I conducted thorough testing across different browsers, screen sizes, and input methods. This comprehensive approach not only improved data accuracy but also contributed to a smoother user experience.

2.2 CANDIDATE MANAGEMENT SYSTEM – INTERNAL PROJECT

2.2.1 PROJECT OVERVIEW

In this project, I was part of the front-end development team. My role was to create user-friendly and responsive screens for the platform using a dynamic, data-driven approach.

Working schedule: 9am to 6pm

2.2.2 TYPE OF TASKS:

- Researched and learned Material UI, focusing on a dynamic, data-driven template approach.
- Created UI components for the login and loader screens.
- Developed UI screens for candidate management, including Accept, Reject, and Choose Candidate screens.

2.2.3 HANDS ON EXPERIENCE:

I gained proficiency in Material UI, utilizing its components to dynamically display data through a data-driven template approach. My role involved collaborating and participating in regular meetings with both backend and frontend teams to ensure seamless integration and project alignment. I effectively utilized Azure DevOps for project management, tracking progress, and maintaining project timelines. Additionally, I actively contributed to the development process within a sprint-based Agile framework, ensuring efficient and timely delivery of project milestones.

2.3 TASK MASTER (Team Project)

2.3.1 PROJECT OVERVIEW

The Master Project is designed to efficiently manage employees and their assigned tasks. Users can view all tasks assigned to each employee, create new tasks with detailed descriptions, and access comprehensive tables displaying all employees and their respective tasks. Additionally, the project includes a search functionality that allows users to quickly find which tasks are assigned to specific employees. This system enhances task management and provides a clear overview of employee responsibilities.

Working Schedule: 9am to 6pm

2.3.2 TYPES OF TASKS

- **Design and Development:** Create a user-friendly and responsive sidebar, dashboard screen, and task creation form.
- **User Feedback:** Implement toast or Snack bar notifications to confirm form submissions.

- **Search Optimization:** Utilize the debounce technique to efficiently display employee names in the search field.

2.3.3 HANDS ON EXPERIENCE

I developed a user-friendly and responsive interface comprising a sidebar, dashboard screen, and task creation form, leveraging modern front-end technologies like React and Material UI. Ensuring adherence to UI/UX best practices, I crafted an intuitive and visually appealing interface, prioritizing user experience. Through iterative testing and user feedback, I refined the layout and functionality to deliver a seamless experience across various devices and screen sizes.

Furthermore, I enhanced user interaction by implementing Snack bar notifications, offering immediate feedback after form submissions based on API responses. These non-intrusive alerts provided users with real-time confirmation of successful task creation or alerted them to any encountered errors. This approach significantly improved user satisfaction and engagement with the application.

Additionally, I optimized performance and user experience by applying the debounce technique to the employee search field. This enhancement streamlined the process of selecting an employee and assigning tasks, contributing to a smoother and more efficient workflow within the application.

2.4 POKEDEX APPLICATION

2.4.1 PROJECT OVERVIEW

The Pokedex application was developed using React and the Pokémon API, serving as a comprehensive database for accessing detailed information about various Pokémon species. The application presented Pokémon details in a visually appealing card format, allowed users to create their own list of favorite Pokémon, and included a search feature for finding specific Pokémon. This provided users with an immersive and interactive experience.

2.4.2 KEY FEATURES AND FUNCTIONALITY:

2.4.2.a Pokémon Information: The Pokedex application allowed users to search for specific Pokémon and retrieve detailed information such as name, type, abilities, stats, and moves. Additionally, users could add Pokémon to their favorite list.

2.4.2.b Interactive User interface: The application provided a user-friendly interface where Pokémon details were displayed in visually appealing and informative cards. Each card showcased the Pokémon's image, type, and key attributes, creating an engaging and immersive experience.

2.4.2.c Integration with Pokemon API: The application leveraged the Pokemon API to fetch real-time data and ensure accurate and up-to-date information about the Pokémon species. This integration allowed users to explore a vast collection of Pokémon with ease.

2.4.3 TYPES OF TASKS

- **Application Development:** Create an application using React and JavaScript.
- **API Integration:** Utilize Open APIs within the project.
- **Design:** Develop Figma designs for the project.
- **Technology Stack:** Implement Material UI, Framer Motion, and GitHub.
- **Feature Implementation:** Develop pagination, search functionality, and an add-to-favorites feature.

2.4.4 HANDS ON EXPERIENCE

- **Project Development:** Assigned to develop an application using JavaScript, integrating APIs, and implementing features to display Pokémon data in cards with search functionality and an add-to-favorite feature.
- Completed a JavaScript course and initiated learning React.js, subsequently applying the acquired knowledge to build the project using Material UI and React.
- **User Interface Development:** Designed an interactive user interface using Material UI components and Framer Motion to enhance user experience and engagement.
- **API Integration and Data Handling:** Acquired proficiency in implementing pagination and managing RESTful APIs to efficiently retrieve Pokémon data.
- Utilized local Storage to store users' favorite Pokémon selections and dynamically display them on the screen.
- Employed multiple APIs to fetch comprehensive Pokémon details, including statistics, moves, and abilities.
- Optimized data fetching processes by utilizing the Tan Stack query library, ensuring efficient retrieval and management of API data.
- **Styling and CSS Proficiency:** Gained expertise in CSS and various styling methods, effectively enhancing the visual appeal and usability of the application.

2.5 ZAPMINDS IDEATHON

2.5.1 OVERVIEW

Our team, including a group of talented interns, participated in an Ideathon organized by Zapcom. We developed an innovative concept in the travel and hospitality domain, which we named Thrifty.ai. This platform leverages AI models to provide users with data on the lowest possible flight prices. By inputting their travel dates and other relevant details, users can utilize our model to predict the optimal time to book flights at the minimum cost. Our idea was awarded second prize, earning us the opportunity to participate in the subsequent hackathon event.

2.6 ZAPMINDS HACKATHON

2.6.1 OVERVIEW

We developed a Proof of Concept (POC) for the idea we presented at the Ideathon. Our implementation utilized React Material UI for the frontend and various Python libraries to train our data model. Additionally, we created APIs to fetch data and display the results effectively.

2.6.2 TYPES OF TASKS

- **UI Development:** Created the navigation bar and home page.
- **User Input Forms:** Designed input fields to gather data for source and destination, onboarding date, flight type, and other relevant details.
- **API Integration:** Managed POST and GET requests to enable data retrieval and submission.

2.6.3 HANDS ON EXPERIENCE

- Successfully created a navigation bar and various input fields using Material UI.
- Gained valuable experience in hackathon dynamics and team collaboration.
- Demonstrated our Proof of Concept (POC) to the Senior Leadership Team.

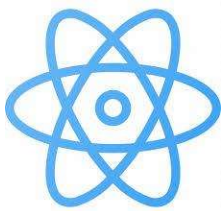
CHAPTER 3: LEARNINGS

3.1 LEARNING OVERVIEW

During my internship at Zapcom Solutions, I had the opportunity to work with a diverse range of tools and technologies to develop innovative solutions. The following are the key tools and technologies extensively used:

3.2 TOOLS & TECHNOLOGIES

3.2.1 Frontend Development



React.js: I extensively worked with React.js, a popular JavaScript library for building user interfaces. Its component-based architecture, virtual DOM, and state management capabilities enabled me to create dynamic and interactive front-end experiences.



TypeScript is a statically typed superset of JavaScript developed by Microsoft. It adds optional static types, allowing for early error detection and improved code quality. TypeScript supports modern JavaScript features and enhances tooling, making it especially useful for large-scale projects. It ensures compatibility with existing JavaScript code while facilitating better code organization and maintainability.



JavaScript is a high-level programming language used for creating interactive and dynamic content on websites. It runs in the browser for client-side development and can also be used on the server side with environments like Node.js.



HTML (Hypertext Markup Language) is the standard language for creating the structure of web pages, using elements like headings, paragraphs, and images. CSS (Cascading Style Sheets) is used to style and layout these HTML elements, controlling their appearance with colors, fonts, spacing, and positioning.



Material UI is a popular React component library that follows Google's Material Design principles. It provides pre-designed, customizable components such as buttons, menus, and dialogs, enabling developers to quickly build aesthetically pleasing and responsive user interfaces. Material UI enhances development efficiency and ensures a consistent look and feel across web applications.



Framer Motion is a powerful animation library for React that enables developers to create smooth, interactive animations with ease. It offers a simple API for animating elements, handling gestures, and orchestrating complex motion sequences. Framer Motion enhances the user experience by adding visually appealing and dynamic transitions to web applications.



Tailwind CSS is a utility-first CSS framework that enables rapid UI development by providing low-level utility classes for styling. It allows developers to build custom designs directly in their HTML without writing custom CSS, promoting a streamlined and efficient workflow.

3.2.2 Backend Development



Node.js is a runtime environment that allows you to run JavaScript on the server side, enabling the development of scalable and high-performance applications. It uses an event-driven, non-blocking I/O model, making it efficient for real-time applications.



Express.js is a minimal and flexible Node.js web application framework that provides a robust set of features for building single and multi-page web applications. It simplifies the process of handling HTTP requests and responses, making backend development more efficient.



MongoDB is a NoSQL database that stores data in flexible, JSON-like documents, allowing for dynamic schema design. It is known for its scalability and performance in handling large volumes of data.

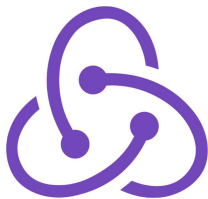


JWT is a compact, URL-safe token format used for securely transmitting information between parties as a JSON object. It is commonly used for authentication and authorization in web applications, ensuring data integrity and authenticity.



A REST API (Representational State Transfer) is an architectural style for designing networked applications that uses standard HTTP methods. It allows different software systems to communicate via stateless operations, often in the form of JSON or XML payloads.

3.2.3 State Mangement



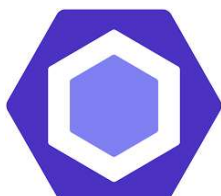
Redux is a state management library for JavaScript applications, providing a central store to manage application state consistently. It helps maintain predictable state changes through actions and reducers, making debugging and testing more efficient.

3.2.4 Routing



React Router is a library for managing navigation and routing in React applications, enabling the creation of single-page applications with dynamic, client-side routing. It allows developers to define routes and render components based on the URL, providing a seamless user experience.

3.2.5 Code Quality & Testing



ESLint is a tool for identifying and fixing problems in JavaScript code, ensuring code quality and consistency. It helps developers catch errors and enforce coding standards by analyzing code and providing actionable feedback.



Prettier is an opinionated code formatter that enforces a consistent style by parsing your code and reprinting it with its own rules. It helps maintain code readability and reduces the time spent on formatting during code reviews and development.



Jest is a JavaScript testing framework designed to ensure correctness of any JavaScript codebase. It provides a robust set of features for writing unit tests, including a simple API, powerful mocking capabilities, and snapshot testing.

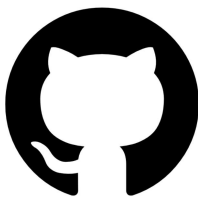


React Testing Library is a testing utility for React applications that encourages testing your components in a way that resembles how users interact with your application. It focuses on testing behavior rather than implementation details, promoting better test coverage and more maintainable tests.

3.2.6 Version Control



Git is a distributed version control system that tracks changes in code, enabling collaboration among developers and facilitating code management. It allows for branching, merging, and versioning of code, ensuring project history and enabling efficient collaboration across teams.

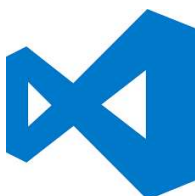


GitHub is a web-based platform for hosting and collaborating on Git repositories. It provides tools for version control, code review, issue tracking, and project management, enabling developers to work together on projects efficiently.



Azure DevOps is a cloud-based collaboration platform for software development, offering a suite of tools for planning, building, testing, and deploying applications.

3.2.7 Development Environment



Visual Studio Code (VS Code) is a free, lightweight, and highly customizable source-code editor developed by Microsoft.

3.3 CERTIFICATION COURSES AND SELF-STUDY DONE DURING INTERNSHIP

3.3.1 Udemy Courses

- React – The Complete Guide 2024 (Next.js & Redux)

- The Complete JavaScript Course 2024

3.3.2 LinkedIn Learning

- Git Essentials Training
- Learning Rest API's
- CSS Essentials Training
- Learning ECMAScript ES6
- Node.JS Essentials Training

3.3.3 YouTube Learning

- Learn Tailwind CSS
- Learn Material UI
- How to use React Hook Form
- Learn Framer-motion
- Learn Azure DevOps
- Learn MongoDB
- Learn React Redux complete playlist
- Learn React Hooks

CHAPTER 4: CHALLENGES

4.1 TECHNICAL CHALLENGES

To deepen my understanding of JavaScript, I focused on learning advanced concepts and implementing them in a project using REST APIs. This involved integrating APIs and handling various HTTP methods. I also worked on bug fixes and implemented new features as guided by my mentor. Learning a new framework presented a significant challenge, so I started an Udemy course on React.js while simultaneously working on personal projects.

This process included learning everything from the basics to advanced concepts like state management. I had the opportunity to join the front-end team, where I contributed to developing UI screens and collaborated effectively with team members. Throughout this experience, I learned to identify and fix errors in my code, benefiting from the guidance and support of my mentor and peers.

4.2 TIME MANAGEMENT

Balancing multiple high-priority tasks simultaneously was a challenge, especially with a work schedule from 9 am to 6 pm. I was assigned tasks for two separate projects: one half of my time was dedicated to the Zapcom group project, and the other half to the NBLY project. In addition, I was working on my personal projects and continuing my learning.

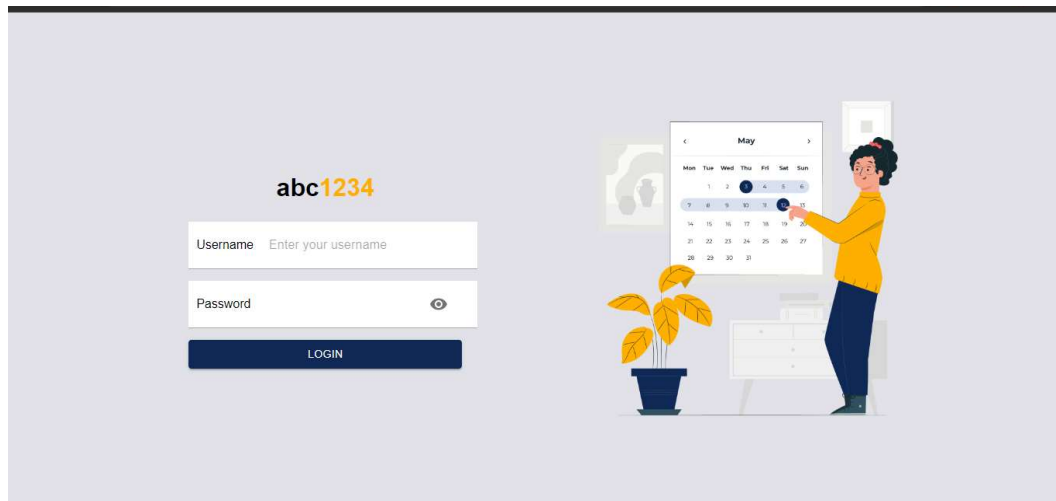
This often required working on Saturdays and Sundays to keep up with the demands. Last-minute changes in project scope or requirements necessitated reworking completed tasks, and unexpected bugs frequently required extra hours to fix. The extended working hours needed to meet tight deadlines sometimes impacted on my productivity and morale.

4.3 COMMUNICATION

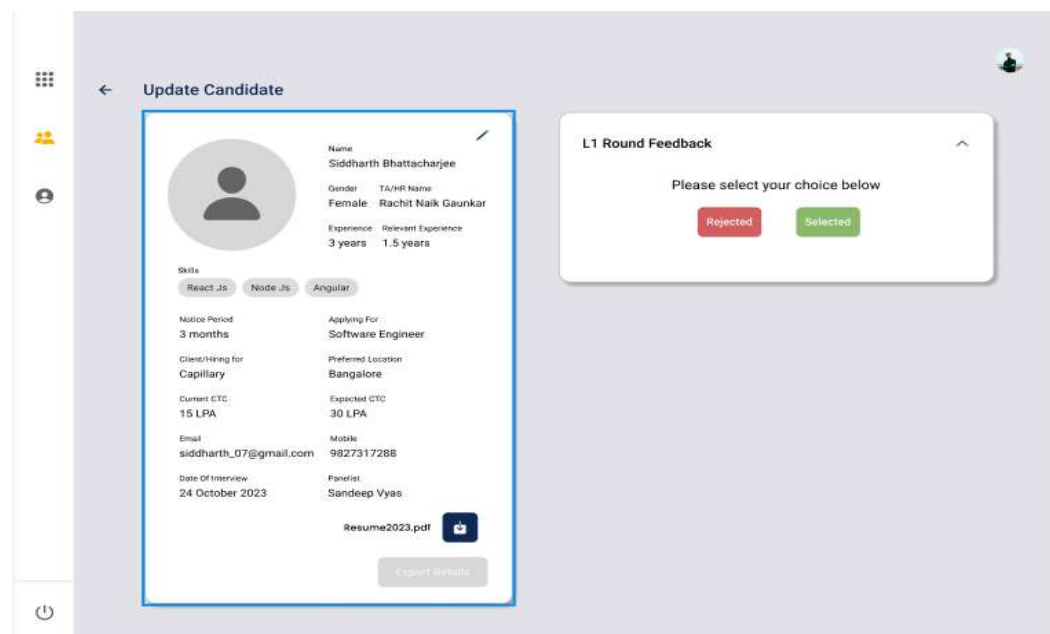
Coordinating with other teams or departments presented significant challenges, particularly when they were in different time zones or had different working styles. Aligning with clients' requirements was also difficult, as they were sometimes not clearly defined or changed frequently. Additionally, delays in receiving feedback or approvals hindered our progress, making it challenging to maintain project momentum and meet deadlines efficiently.

APPENDIX IINTERNAL PROJECT

Login Page



Choose Candidate Page



Candidate Rejected Choice Page

The screenshot shows the 'Update Candidate' page. On the left, a candidate profile card for Siddharth Bhattacharjee is displayed. It includes a placeholder for a profile picture, a list of skills (React Js, Node Js, Angular), and various details: Notice Period (3 months), Applying For (Software Engineer), Current CTC (15 LPA), Expected CTC (30 LPA), Email (siddharth_07@gmail.com), Mobile (9827317288), Date Of Interview (24 October 2023), and Interviewer (Sandeep Vyas). A 'Resume2023.pdf' file is attached. On the right, the 'L1 Round Feedback' form is shown, with a text area for 'Please share your reason for rejection' and a 'Submit' button.

Update Candidate

Name: Siddharth Bhattacharjee

Gender: TA/HR Name: Female Rachit Naik Gaunkar

Experience: 3 years Relevant Experience: 1.5 years

Skills: React Js, Node Js, Angular

Notice Period: 3 months

Applying For: Software Engineer

Current CTC: 15 LPA

Expected CTC: 30 LPA

Email: siddharth_07@gmail.com

Mobile: 9827317288

Date Of Interview: 24 October 2023

Interviewer: Sandeep Vyas

Resume2023.pdf

Export Details

L1 Round Feedback

Please share your reason for rejection

Submit

Accepted Candidate Page

The screenshot shows the 'Update Candidate' page, similar to the previous one, but with a different feedback form. The candidate profile card on the left is identical. The 'L1 Round Feedback' form on the right includes a progress bar at the top, followed by 'Technical Skills' with an 'Overall' rating of 4 stars. Below this are sections for 'Tech Strengths' and 'Tech Weakness', each with a text input field. Further down are 'Database Knowledge' (4 stars) and 'Object Oriented Concepts' (4 stars), each with a 'Tech Weakness' text input field. A 'Next' button is at the bottom right.

Update Candidate

Name: Siddharth Bhattacharjee

Gender: TA/HR Name: Female Rachit Naik Gaunkar

Experience: 3 years Relevant Experience: 1.5 years

Skills: React Js, Node Js, Angular

Notice Period: 3 months

Applying For: Software Engineer

Current CTC: 15 LPA

Expected CTC: 30 LPA

Email: siddharth_07@gmail.com

Mobile: 9827317288

Date Of Interview: 24 October 2023

Interviewer: Sandeep Vyas

Resume2023.pdf

Export Details

L1 Round Feedback

Technical Skills

Overall: 4 stars

Tech Strengths: Enter your answer here

Tech Weakness: Enter your answer here

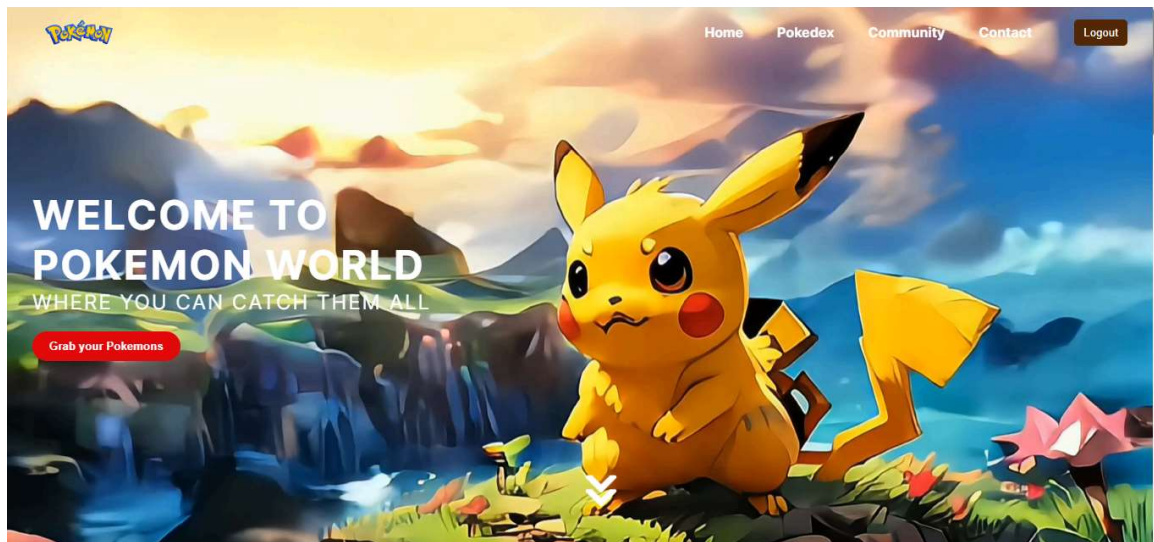
Database Knowledge: 4 stars

Object Oriented Concepts: 4 stars

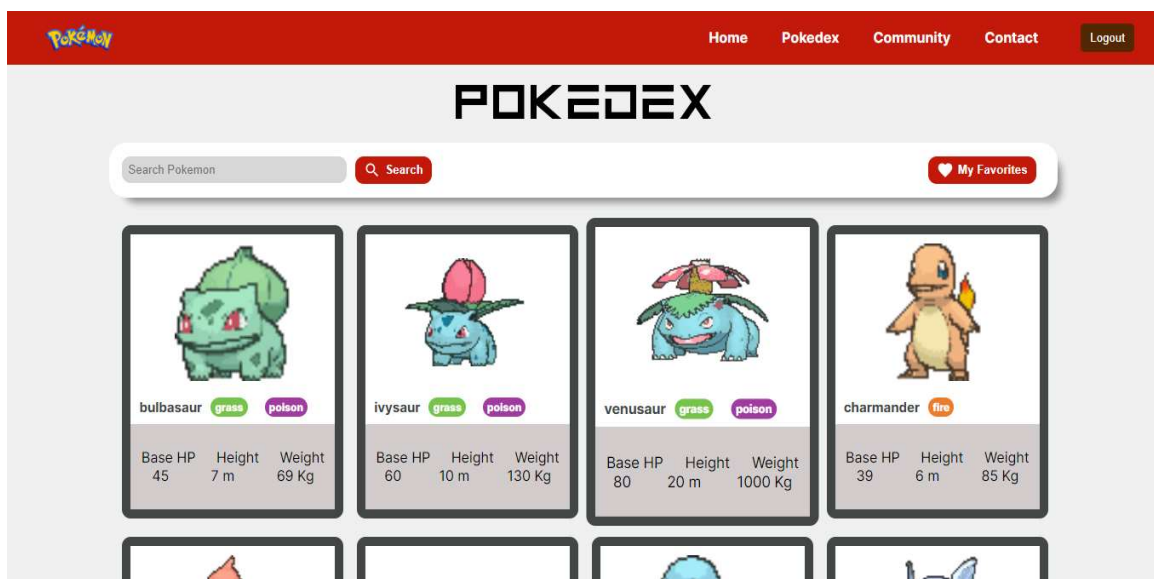
Tech Weakness: Enter your answer here

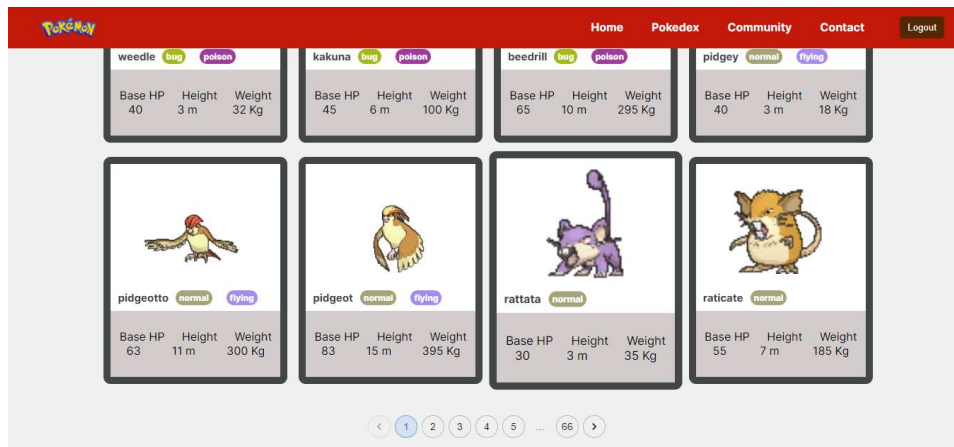
Next

Pokedex Homepage

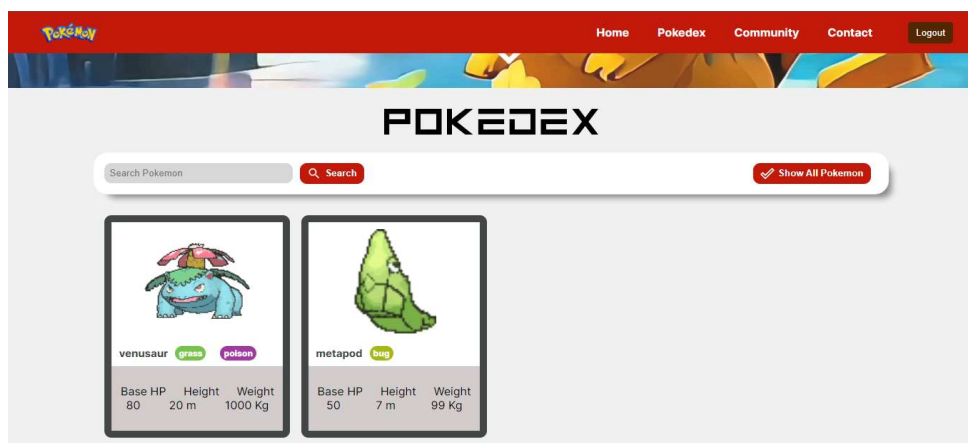


Pokedex Main Page

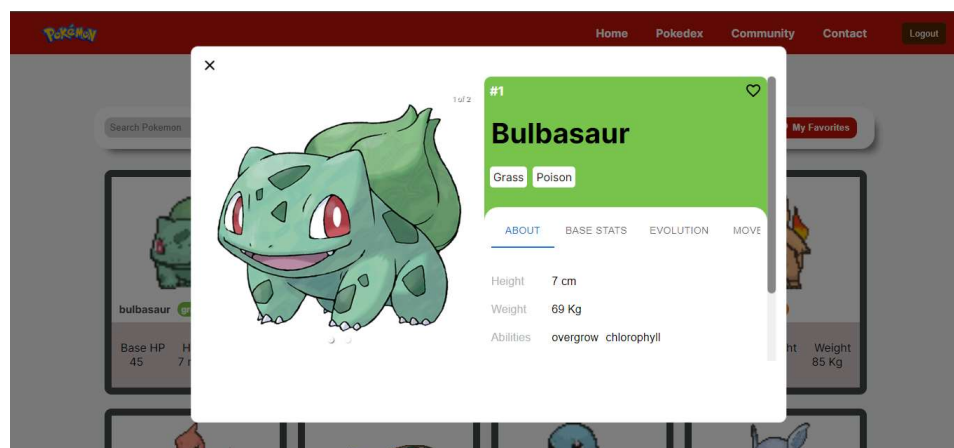




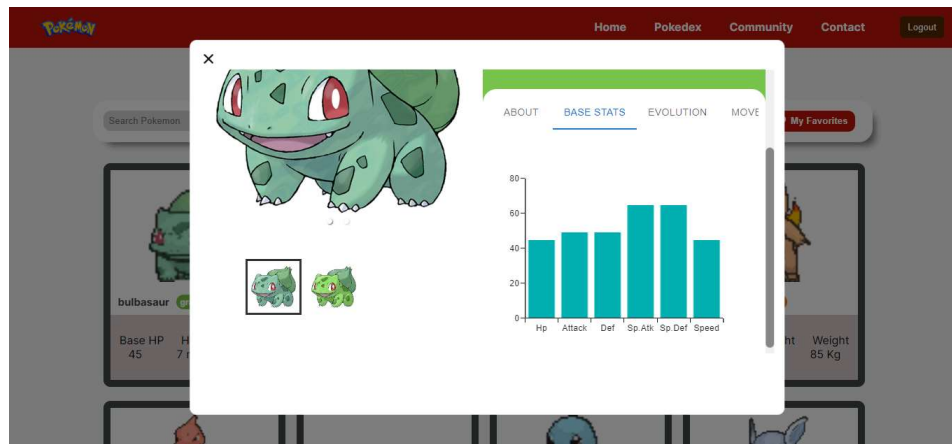
Favorite Pokemon Page



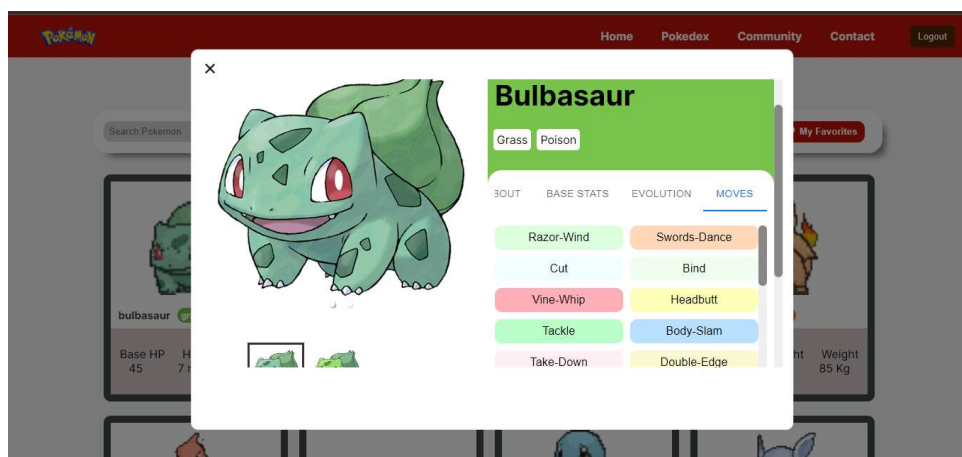
Pokemon Details - About



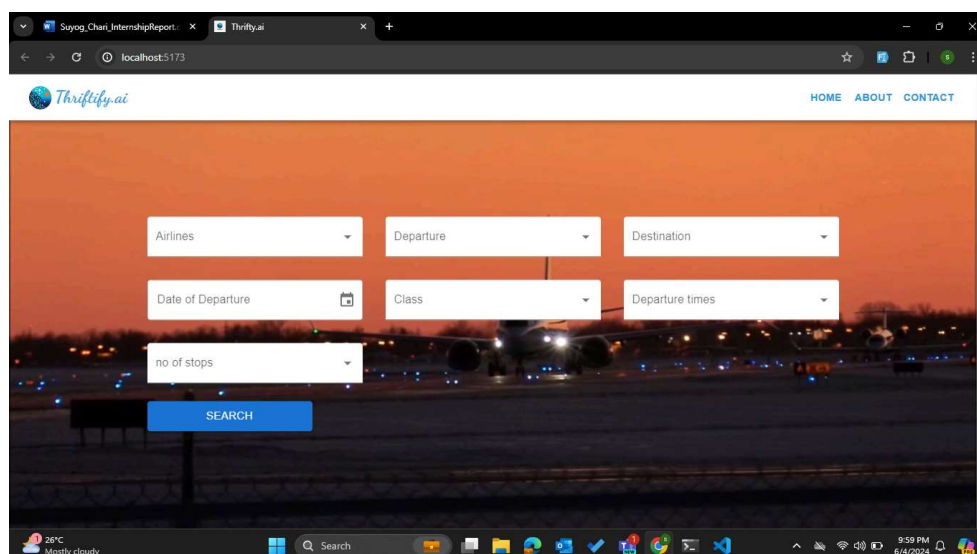
Pokemon Details – Base Stats



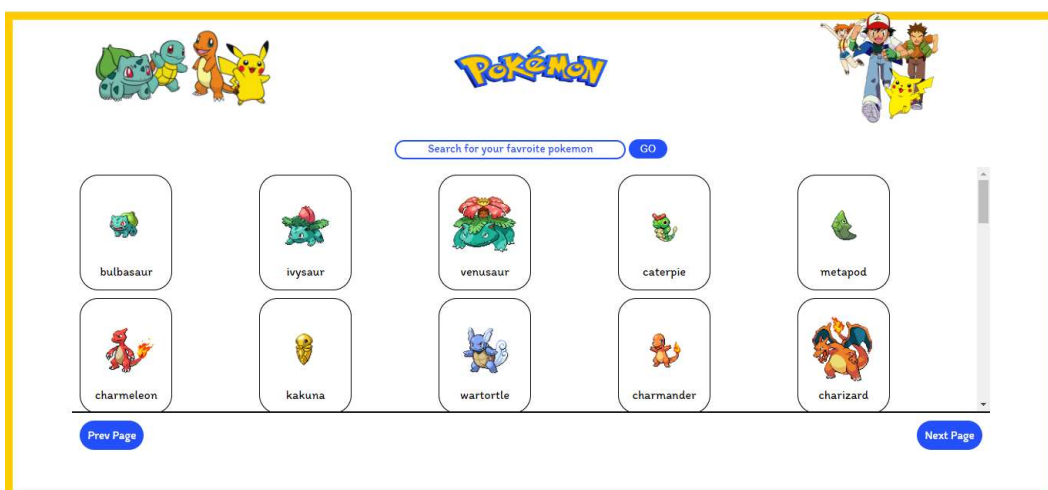
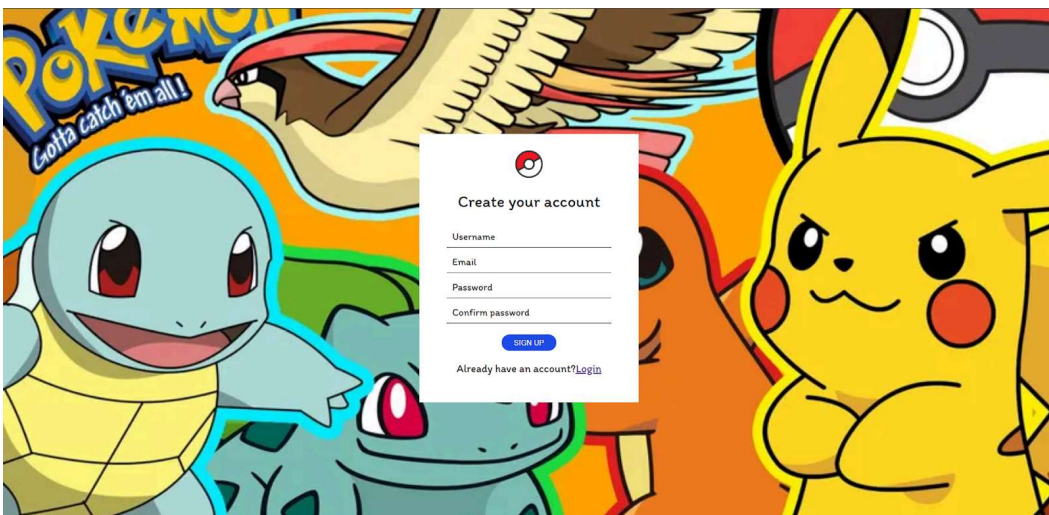
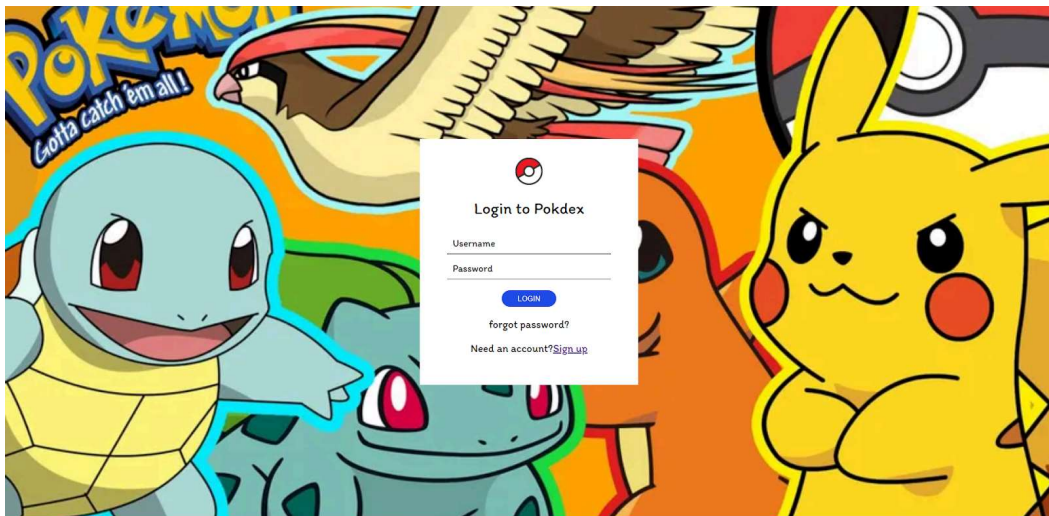
Pokemon Details - Moves



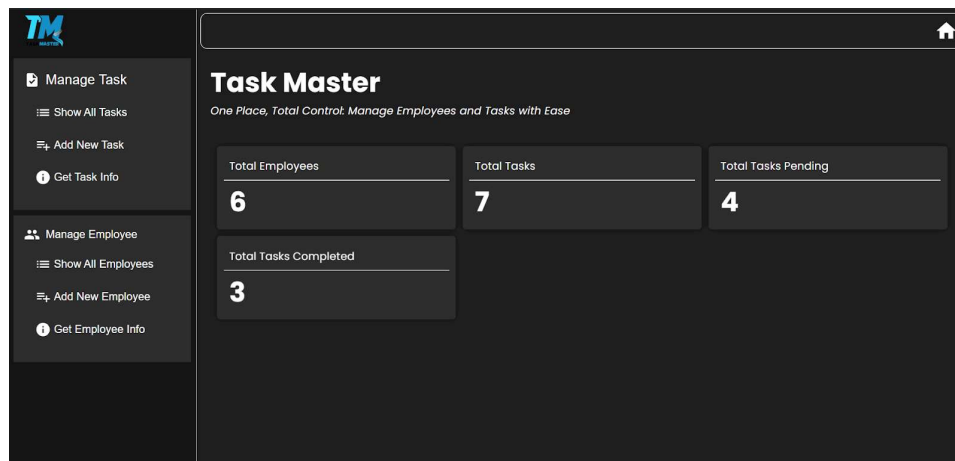
POC made for ZapMinds Hackathon



Pokedex JavaScript Project

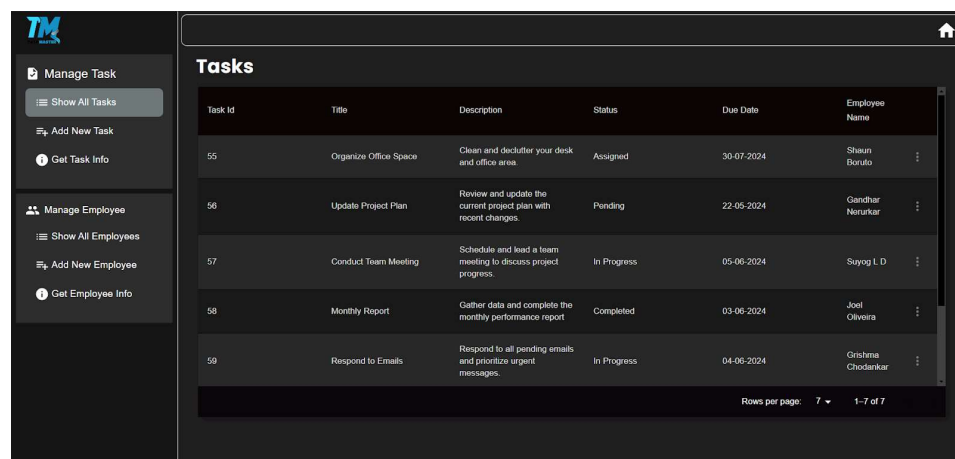


Taskmaster Dashboard Page



The Taskmaster Dashboard Page features a dark-themed interface. On the left, a sidebar contains navigation links for 'Manage Task' (Show All Tasks, Add New Task, Get Task Info) and 'Manage Employee' (Show All Employees, Add New Employee, Get Employee Info). The main content area is titled 'Task Master' with the tagline 'One Place, Total Control. Manage Employees and Tasks with Ease'. It displays four summary cards: 'Total Employees' (6), 'Total Tasks' (7), 'Total Tasks Pending' (4), and 'Total Tasks Completed' (3). A home icon is located in the top right corner.

Show All Task

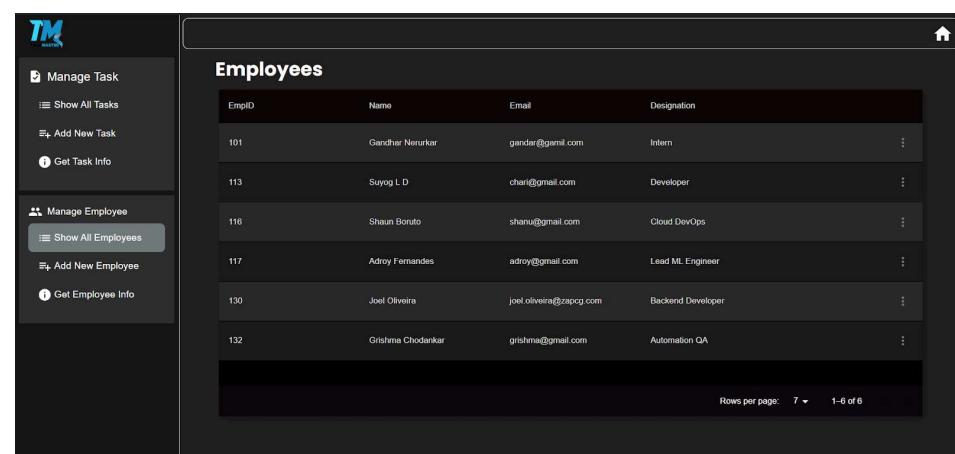


The 'Show All Task' page displays a table of tasks. The sidebar is identical to the dashboard. The main content area is titled 'Tasks' and shows a table with 7 rows. The table columns are Task Id, Title, Description, Status, Due Date, and Employee Name. The tasks are as follows:

Task Id	Title	Description	Status	Due Date	Employee Name
55	Organize Office Space	Clean and declutter your desk and office area.	Assigned	30-07-2024	Shaun Boruto
56	Update Project Plan	Review and update the current project plan with recent changes.	Pending	22-05-2024	Gandhar Nerunkar
57	Conduct Team Meeting	Schedule and lead a team meeting to discuss project progress.	In Progress	05-06-2024	Suyog L D
58	Monthly Report	Gather data and complete the monthly performance report.	Completed	03-06-2024	Joel Oliveira
59	Respond to Emails	Respond to all pending emails and prioritize urgent messages.	In Progress	04-06-2024	Grishma Chodankar

At the bottom right of the table, it says 'Rows per page: 7' and '1-7 of 7'.

Show All Employee

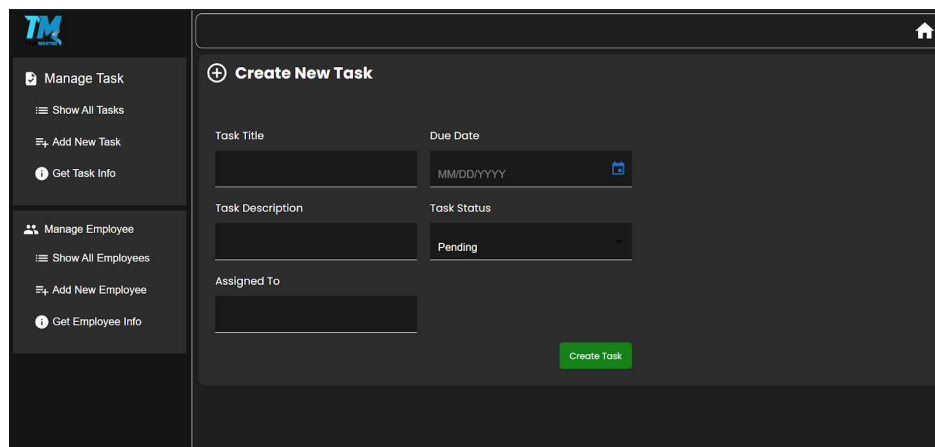


The 'Show All Employee' page displays a table of employees. The sidebar is identical to the dashboard. The main content area is titled 'Employees' and shows a table with 6 rows. The table columns are EmpID, Name, Email, and Designation. The employees are as follows:

EmpID	Name	Email	Designation
101	Gandhar Nerunkar	gander@gmail.com	Intern
113	Suyog L D	chari@gmail.com	Developer
116	Shaun Boruto	shanur@gmail.com	Cloud DevOps
117	Adroy Fernandes	adroy@gmail.com	Lead ML Engineer
130	Joel Oliveira	joel.oliveira@zapcg.com	Backend Developer
132	Grishma Chodankar	grishma@gmail.com	Automation QA

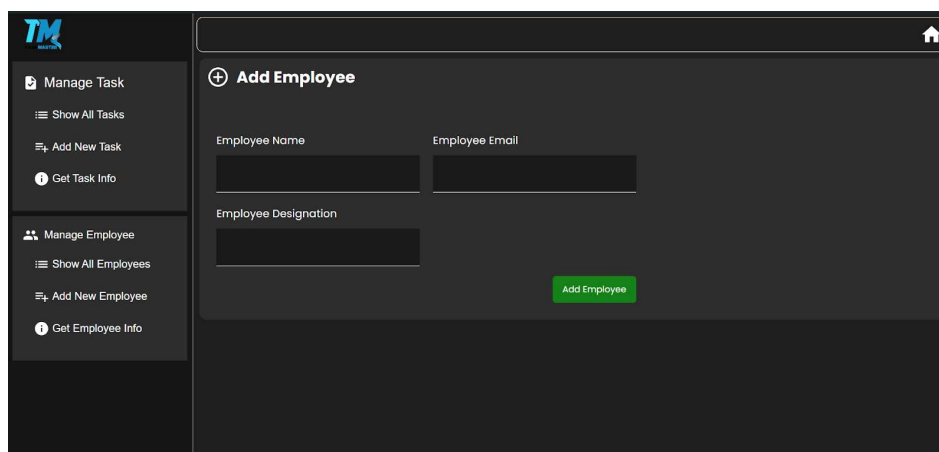
At the bottom right of the table, it says 'Rows per page: 7' and '1-6 of 6'.

Create New Task



The screenshot shows a web application interface with a dark theme. On the left is a sidebar with a logo 'TM' and two main sections: 'Manage Task' and 'Manage Employee'. The 'Manage Task' section is active, showing options like 'Show All Tasks', 'Add New Task', and 'Get Task Info'. The main content area is titled 'Create New Task' and contains a form with the following fields: 'Task Title' (text input), 'Due Date' (date picker showing 'MM/DD/YYYY'), 'Task Description' (text input), 'Task Status' (dropdown menu showing 'Pending'), and 'Assigned To' (text input). A green 'Create Task' button is located at the bottom right of the form.

Add New Employee



The screenshot shows the same web application interface as above, but the 'Manage Employee' section in the sidebar is active. The main content area is titled 'Add Employee' and contains a form with the following fields: 'Employee Name' (text input), 'Employee Email' (text input), and 'Employee Designation' (text input). A green 'Add Employee' button is located at the bottom right of the form.

APPENDIX II