

Industry Work

Semester-8

Internship

Developed By: -

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Guided By: -

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Mr. Jaymin Gajjar (External)

Submitted to
Faculty of Engineering and Technology
Institute of Computer Technology
Ganpat University



**Ganpat
University**

॥ विद्या समाजोत्कर्षः ॥

**Institute of
Computer
Technology**



Year - 2024



CERTIFICATE

This is to certify that the **industry work** entitled “React js training” by **Vismay Patel (20162101015)** of Ganpat University, towards the partial fulfillment of requirements of the degree of Bachelor of Technology – Computer Science and Engineering, carried out by them in the CSE(CBA) Department at **Silicon It Hub**. The results/findings contained in this Project have not been submitted in part or full to any other University / Institute for award of any other Degree/Diploma.

Name & Signature of Internal Guide

Name & Signature of Head

Place: ICT-GUNI

Date: 12-05-2024



Silicon IT Hub Pvt Ltd.

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An ISO 27001:2013 & ISO 45001:2018 Certified Company

Date: 30/04/2024

To Whom It May Concern

This is to state that Mr. Vismay Patel student of B.Tech – Semester 8th from Ganpat University, has successfully completed his internship, effective from 2nd January, 2024 -30th April 2024, during this period we found him punctual, obedient.

All necessary details were provided from our side for the establishment of the project.

We wish him all the best.

Yours Faithfully,



Dhrushi Patel
HR Executive
Silicon IT Hub Pvt. Ltd.

Tel : +91 79 3512 7022, Email : info@siliconithub.com, CIN No.: U7200GJ2021PTC070012

Address : B1-Ground Floor, Safal Profitaire, Corporate Road, Prahaladnagar, Ahmedabad-380 015, Gujarat, India

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Vismay Patel (20162101015)

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Overview of the Company

1.1 About Us:

Silicon IT Hub is a future-ready web and mobile app development company serving to drive the digital revolution. Since its inception in 1998, our friendly and diverse team of 200+ professionals aiding businesses of every niche globally.

Silicon encourages seamless growth for every workforce, client, and the whole company in the context of commercial revenue, expertise, and solutions. We provide a convenient and fully transparent work environment that motivates employees to be unique in everything they do.

1.2 Services:

- Mobile App Development
- Web Development
- Software Development
- UI/UX Design
- Product Engineering
- Enterprise Solutions
- QA
- Digital Marketing

1.3 Industry:

- Health Care
- Education/eLearning
- Retail
- Travel and Hospitality
- FinTech
- Media and Entertainment
- Real Estate

Week 1

Objective:

During Week 1's training, our primary aim was to furnish participants with a comprehensive grasp of JavaScript, encompassing its basic syntax, diverse data types, and fundamental programming principles.

Accomplishments:

- **Introduction to JavaScript:** Participants were immersed in the versatile world of JavaScript, a prominent programming language renowned for its application in web development. We underscored JavaScript's pivotal role in augmenting web pages with interactivity and dynamism, thereby elevating user experience.
- **Basic JavaScript Syntax:** We delved into the foundational elements of JavaScript syntax, acquainting participants with variables, data types (such as strings, numbers, arrays, and objects), and the significance of semicolons, parentheses, and curly braces in maintaining code structure.
- **Control Structures and Functions:** Participants were introduced to control structures like conditional statements (if-else) and loops (for, while), vital for implementing decision-making and iterative processes in JavaScript programs. Additionally, we explored the concept of functions as reusable code blocks, covering declaration, invocation, parameters, and return values.

Conclusion:

Throughout the training, our approach of interactive lectures coupled with hands-on exercises proved instrumental in fostering a robust understanding of JavaScript concepts. We witnessed active engagement from participants, evident through their participation in Q&A sessions and discussions. Despite challenges faced by some in grasping fundamental concepts and encountering syntax errors, our tailored solutions, including additional explanations, examples, and practice exercises, ensured a holistic learning experience. As Week 1 drew to a close, participants emerged equipped with newfound JavaScript proficiency, laying a solid foundation for their journey in web development.

Week 2

Objective:

This training aimed to equip participants with proficiency in jQuery and introduce supplementary tools and plugins used in web development to enhance user experience and functionality.

Accomplishments:

- **Mastery of Basic jQuery Functions:** Participants gained mastery over fundamental jQuery functions, enabling dynamic manipulation of DOM elements and CSS properties on web pages.
- **Exploration of jQuery Effects:** Through exploration of jQuery effects, participants acquired skills in crafting dynamic animations and transitions, enriching user interactions.
- **Proficiency in jQuery Traversing:** Participants mastered jQuery traversing methods, facilitating efficient navigation of complex HTML structures and precise element selection.
- **Implementation of Ajax Functionality:** Successful implementation of Ajax functionality enabled dynamic data retrieval and manipulation without page reloads, enhancing interactivity.
- **Exploration of Additional Tools and Plugins:** Participants explored additional tools and plugins such as slick slider carousels and modal dialogs, expanding their toolkit for creating feature-rich web interfaces.

Conclusion:

This training equipped participants with advanced jQuery skills and an expanded toolkit, poised to significantly enhance the creation of dynamic and engaging web applications, ultimately improving user experience and engagement.

Week 3

Objective:

Week 3 of the training was dedicated to React.js, focusing on equipping participants with a thorough understanding of this powerful JavaScript library for building interactive user interfaces. The objective was to guide participants through the process of building a todo app using React.js.

Accomplishments:

- **Introduction to React.js:** Participants grasped React.js's component-based architecture for constructing dynamic and interactive user interfaces efficiently.
- **JSX Syntax:** Mastery of JSX syntax enabled participants to declaratively define UI elements by combining HTML-like syntax with JavaScript expressions.
- **Component Composition:** Understanding component composition facilitated the creation of reusable and modular UI components, allowing participants to build complex interfaces by nesting and composing components.
- **State Management:** Participants learned essential concepts of managing component state and passing props between components to facilitate data flow, crucial for React development.
- **Advanced Topics:** Exploration of lifecycle methods, React Router for client-side routing, and state management tools like Context API and Redux provided participants with essential tools and techniques to enhance their React development skills.

Conclusion:

Participants gained a comprehensive understanding of React.js and built a todo app, honing skills in component composition, state management, routing, and styling, preparing them for developing robust user interfaces.

Week 4

Objective:

The project aimed to create a registration form using React.js, incorporating functionalities for data management such as storing data on local storage, rendering it into a table, and enabling CRUD operations. Additionally, the project involved fetching and displaying data from an external file and utilizing a modal to enhance user interaction.

Accomplishments:

- **Creation of Registration Form:** Developed a React.js component for the registration form with input fields and implemented form validation for data integrity.
- **Data Storage on Local Storage:** Integrated local storage functionality to persist user registration data, ensuring data persistence across browser sessions.
- **Rendering Data into a Table:** Designed a table component to display registered user data dynamically retrieved from local storage and an external JSON file.
- **Implementation of CRUD Operations:** Enabled CRUD functionalities for adding, editing, and deleting table entries, enhancing user data management capabilities.
- **Utilization of Modal to Display Data:** Integrated a modal component to display detailed user information, improving the user experience by providing a clutter-free interface for viewing additional data.

Conclusion:

The project successfully achieved its objective by developing a functional registration form with robust data management capabilities. Through the implementation of CRUD operations, rendering data from external sources, and enhancing user experience with modal windows, the project demonstrated effective utilization of React.js for building dynamic and interactive web applications.

Screen shots:

A screenshot of a web browser window titled "Store". The browser has five tabs open, with the fifth tab being the active one. The page displays a table of mobile phones with columns for SR NO, Name, Company, Price, and More Info. The data is as follows:

SR NO	Name	Company	Price	More Info
1	iPhone 9	Apple	\$549	<button>More Info</button>
2	iPhone X	Apple	\$899	<button>More Info</button>
3	Samsung Universe 9	Samsung	\$1249	<button>More Info</button>
4	OPPOF19	OPPO	\$280	<button>More Info</button>
5	Huawei P30	Huawei	\$499	<button>More Info</button>
6	MacBook Pro	Apple	\$1749	<button>More Info</button>
7	Samsung Galaxy Book	Samsung	\$1499	<button>More Info</button>
8	Microsoft Surface Laptop 4	Microsoft Surface	\$1499	<button>More Info</button>

A screenshot of a web browser window titled "Store". The browser has five tabs open, with the fifth tab being the active one. A modal dialog box is displayed over the table, providing detailed information about the iPhone 9. The modal content includes:

- Product Name: iPhone 9
- Description: An apple mobile which is nothing like apple
- Price: 549
- DiscountPercentage: 12.96
- Rating: 4.69
- Stock: 94
- Brand: Apple
- Category: smartphones

Below the text, there is a small image of the iPhone 9 smartphone.

Week 5

Objective:

The objective of this learning module was to attain proficiency in JavaScript-based form validation techniques and explore popular validation plugins for simplifying validation tasks in web development projects.

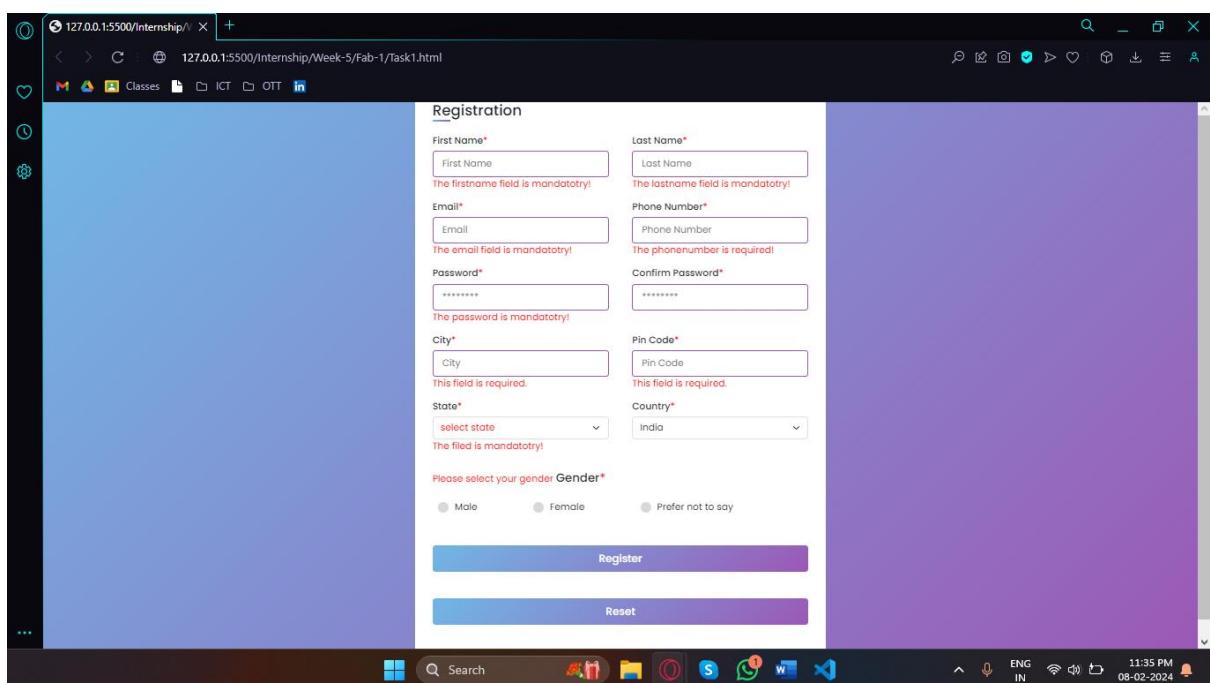
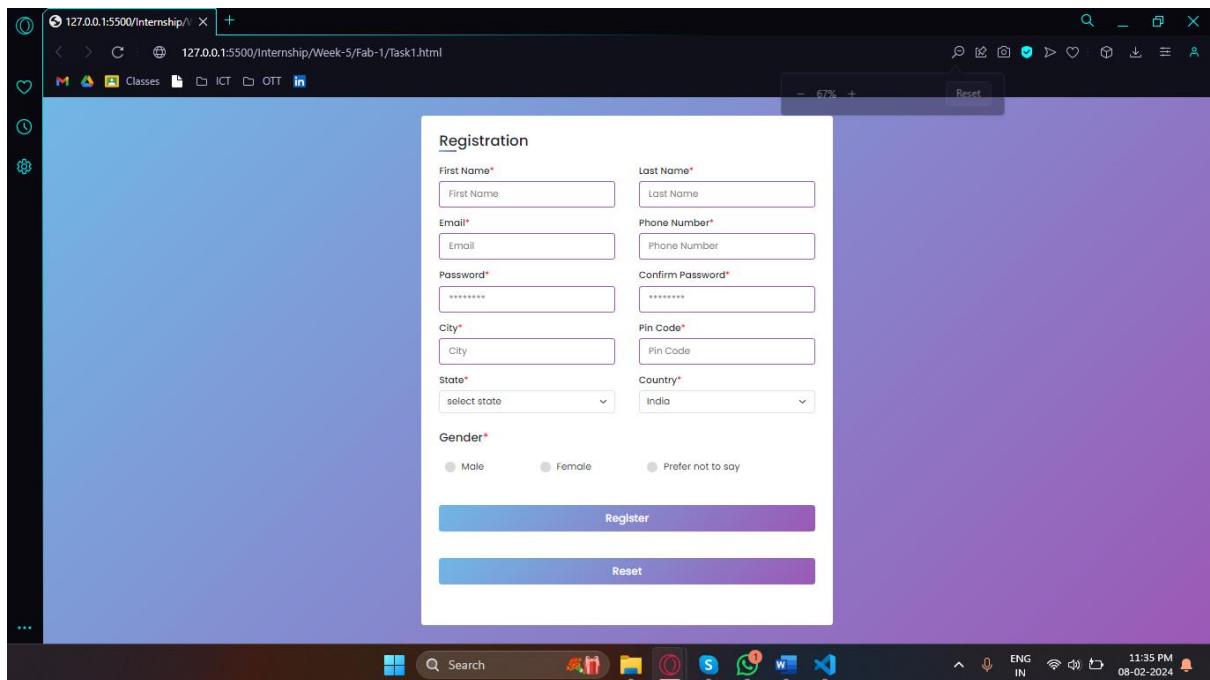
Accomplishments:

- **Form Structure and Input Fields:** Designed and implemented the registration form UI with input fields for capturing user details such as name, email, password, etc.
- **Validation Logic:** Implemented JavaScript-based validation logic to enforce validation rules for each form field, including required fields, email format validation, password strength requirements, etc.
- **Error Handling and Feedback:** Provided clear and informative error messages to users when validation errors occur, guiding them on how to correct their inputs. Implemented visual feedback mechanisms such as highlighting invalid fields or displaying error messages next to the corresponding fields.
- **Submission Handling:** Prevented form submission if validation errors were detected, ensuring that only valid data is submitted to the server. Implemented client-side confirmation dialogs or notifications to inform users of successful form submission upon validation success.
- **User Experience Enhancement:** Improved the overall user experience by implementing efficient and robust form validation, contributing to enhanced usability and satisfaction.

Conclusion:

Through the completion of this module, participants successfully mastered JavaScript-based form validation techniques and gained insight into popular validation plugins. By implementing comprehensive validation logic and adhering to best practices, they enhanced the usability and data integrity of web forms, contributing to a seamless user experience.

Screen shots:



Week 6

Objective:

Week 6 aimed to deepen understanding and proficiency in React.js development by exploring fundamental concepts and implementing practical projects.

Accomplishments:

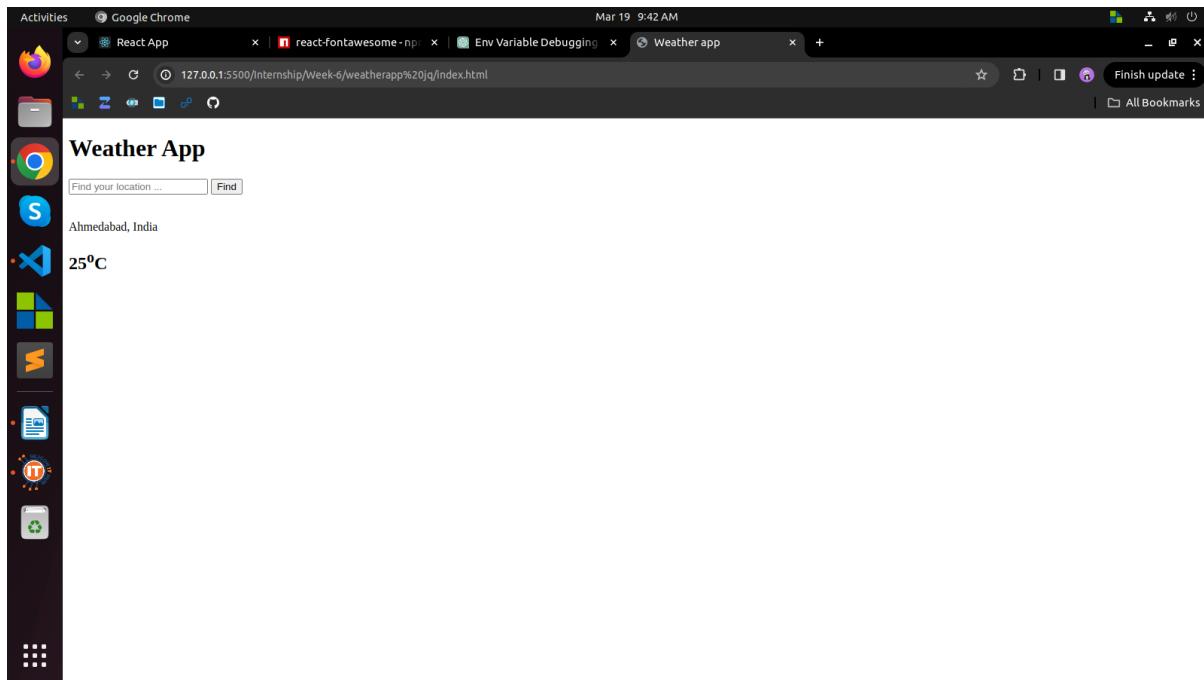
- **React.js Fundamentals Exploration:** Extensively delved into the create-react-app documentation to understand core concepts and best practices, covering JSX syntax, component architecture, state management, and props passing.
- **Weather App Implementation:** Successfully built weather applications using both jQuery and React.js, integrating the Open Weather API for data retrieval. Developed user-friendly interfaces enabling seamless weather checking for various locations, leveraging React.js for dynamic and responsive UI components.
- **Interactive Counter Creation:** Developed interactive counters using React.js, incorporating functionalities like start, pause, and reset. Utilized React.js state management to handle counter values dynamically, ensuring smooth functionality and user interaction.
- **Utilization of create-react-app:** Leveraged the create-react-app tool for efficient project setup, optimization, and advanced usage. Utilized features such as hot reloading, code splitting, and production build optimizations to streamline the development process.

Conclusion:

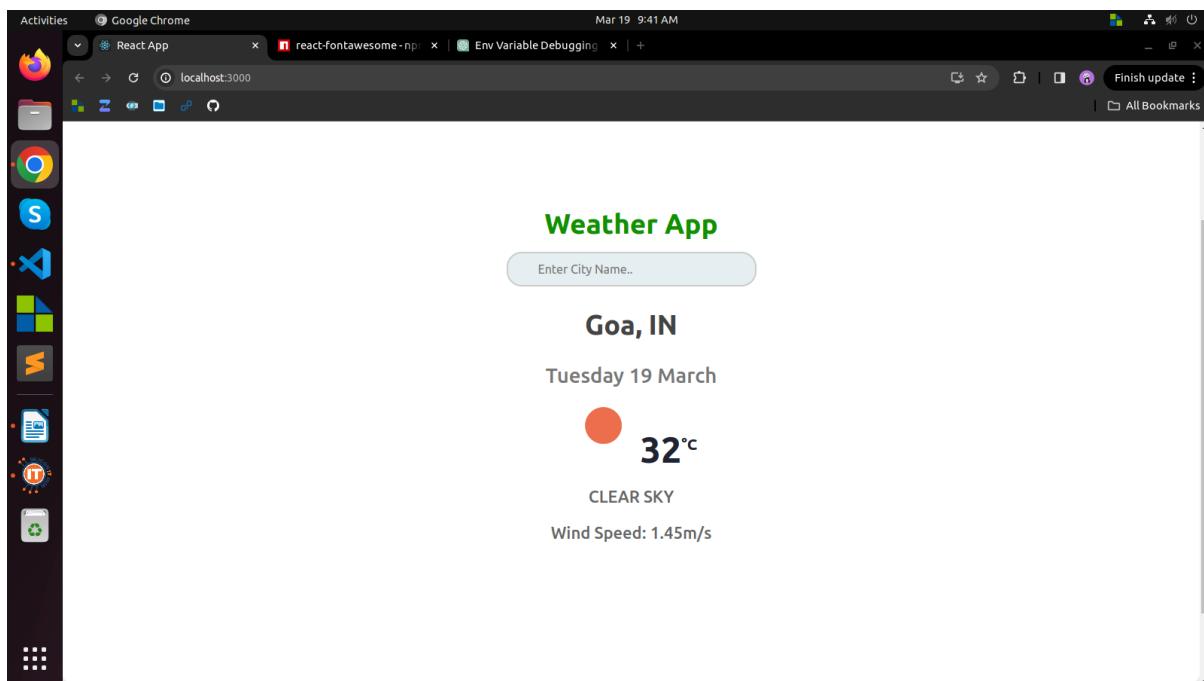
Week 6 provided a robust foundation in React.js development, covering fundamental concepts and practical implementations. Through exploration and project work, participants gained proficiency in creating dynamic user interfaces, managing state effectively, and optimizing development workflows. These accomplishments equip us with the skills and knowledge necessary to tackle React.js projects confidently and efficiently in future endeavors.

Screen Shots:

- Using js



- Using react



Week 7

Objective:

The objective across these projects was to create efficient and user-friendly web components and applications to enhance productivity and user experience.

Accomplishments:

Appointment Booking Website:

- Implemented secure authentication functionalities for user access.
- Developed an intuitive appointment booking form for convenient scheduling.
- Created separate dashboards tailored to the needs of doctors and users.
- Incorporated a modal component for detailed appointment viewing.

Search Filter Component in React:

- Developed a reusable search filter component with dynamic search capabilities.
- Implemented filtering functionalities based on various criteria.
- Ensured responsiveness and compatibility across different devices.

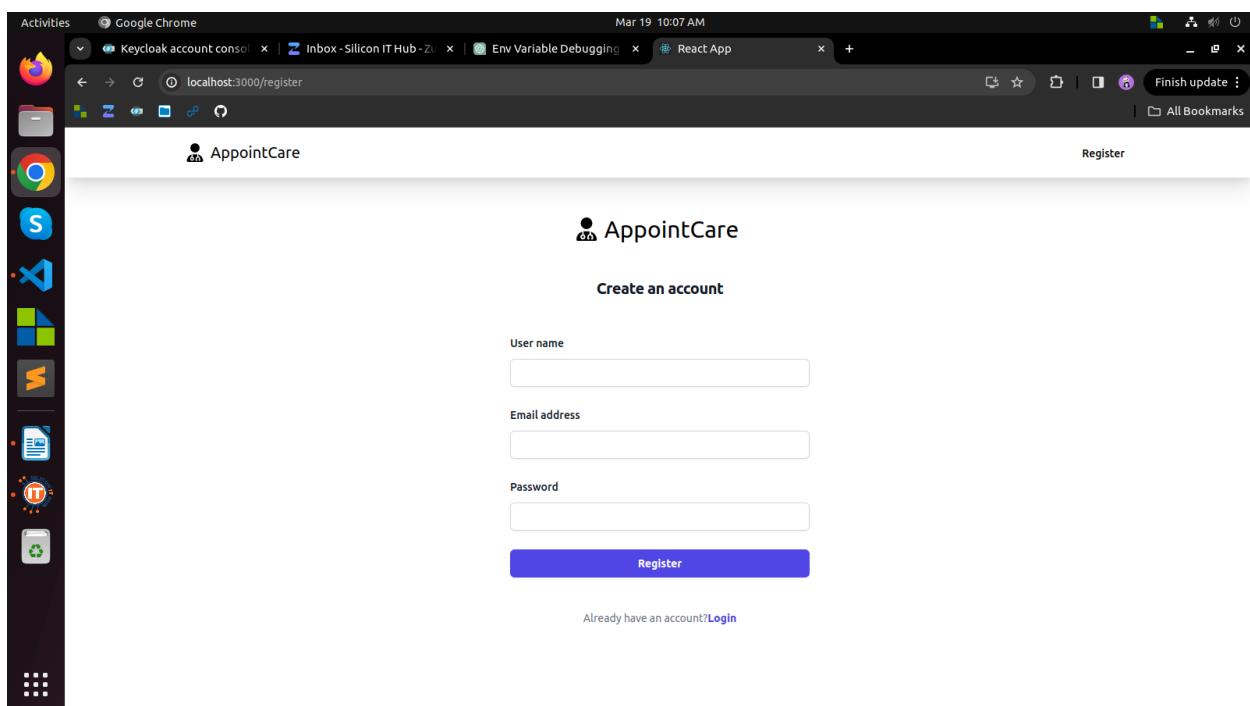
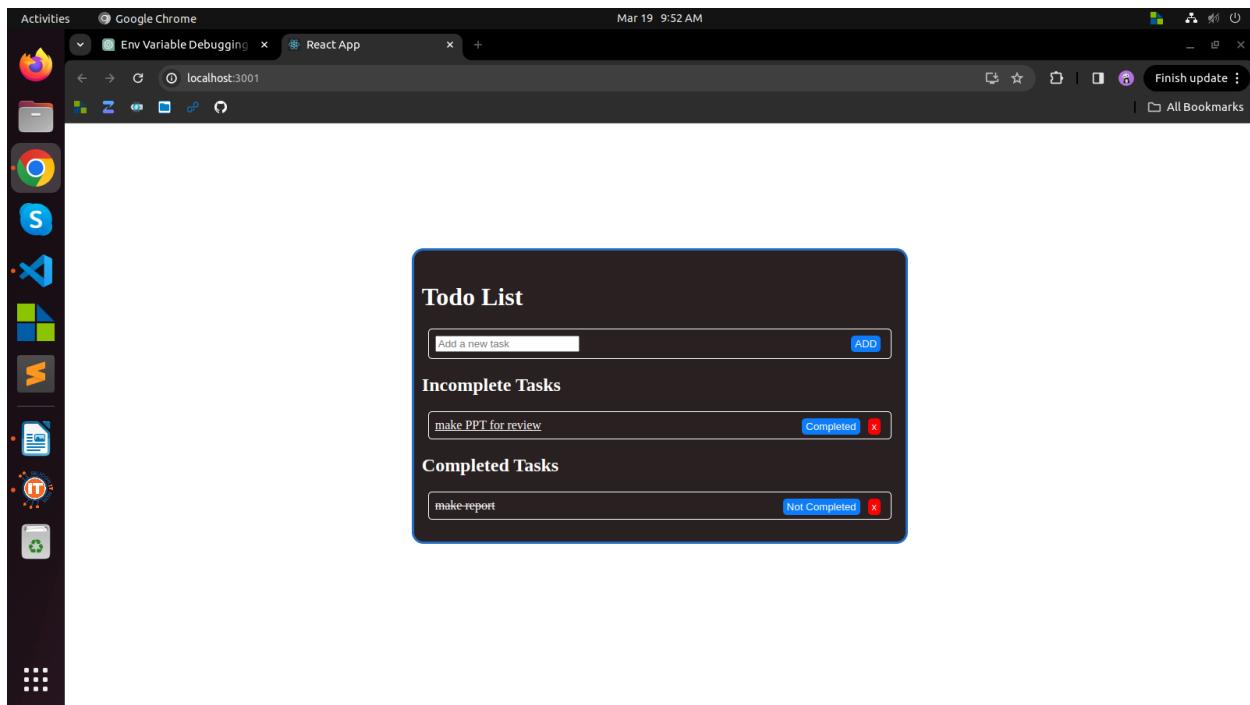
Task Management Application:

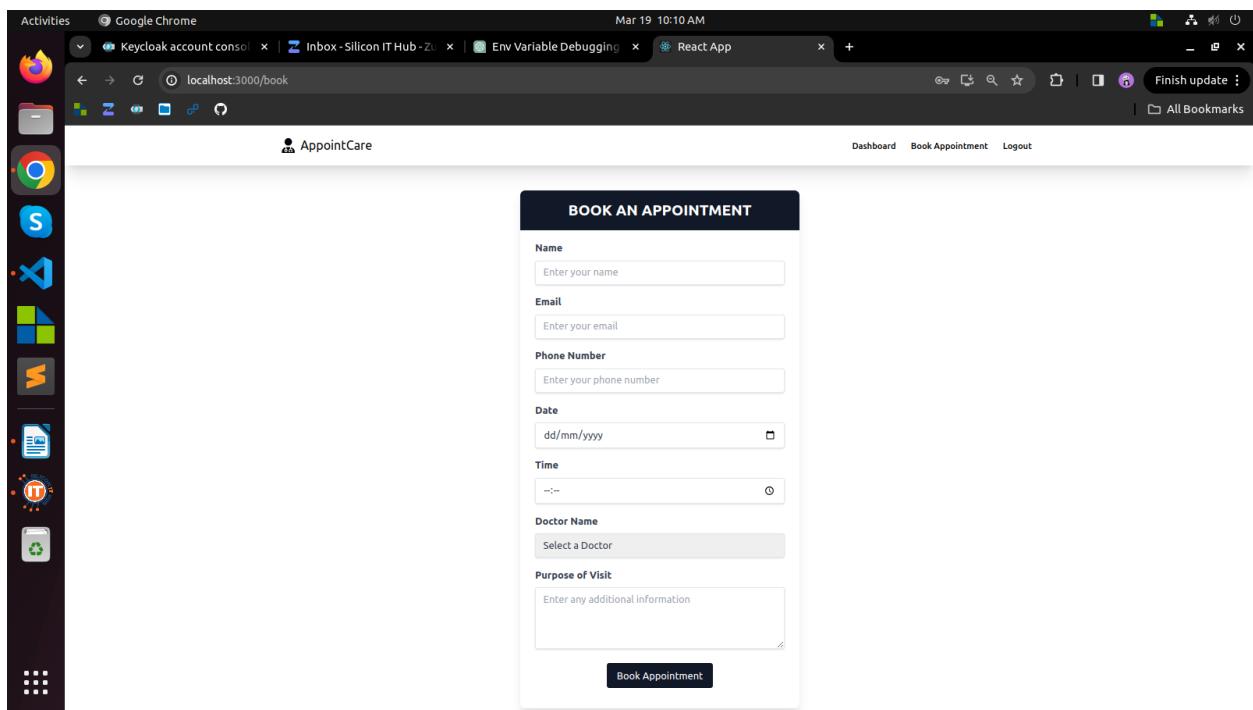
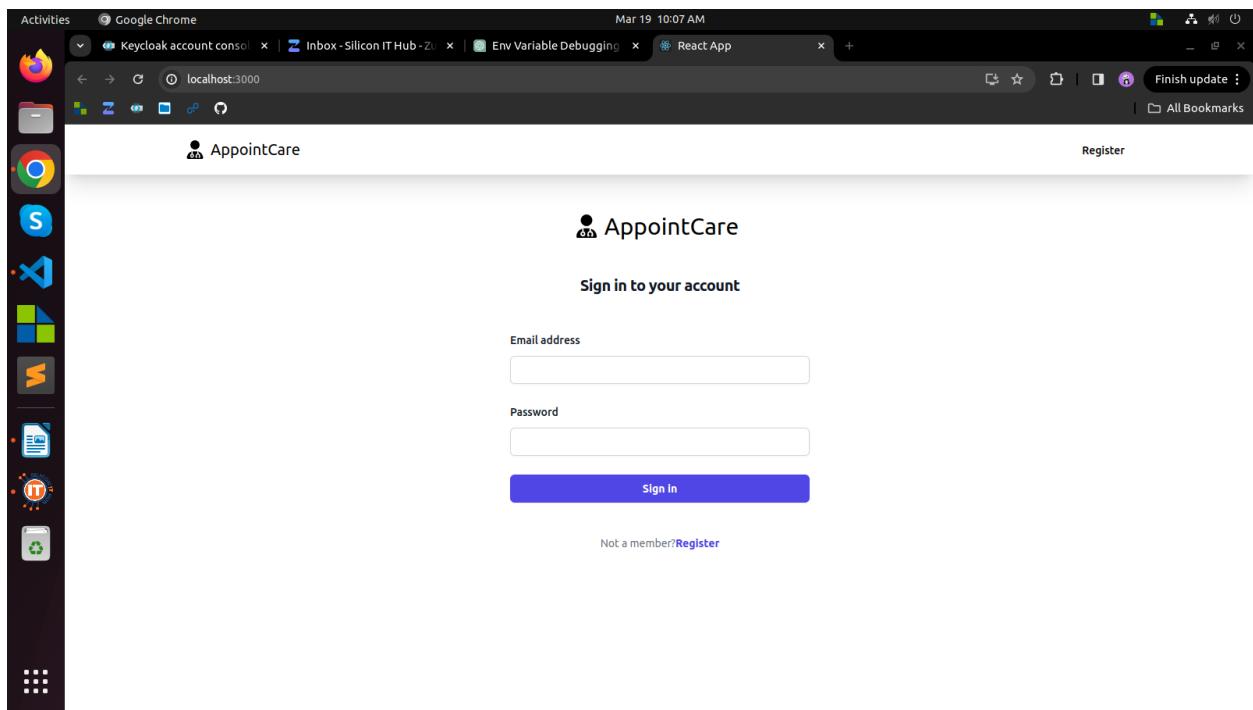
- Developed task management features for adding, editing, and organizing tasks effectively.
- Implemented filtering and sorting functionalities for streamlined task organization.
- Designed a user-friendly interface to enhance task management and navigation.

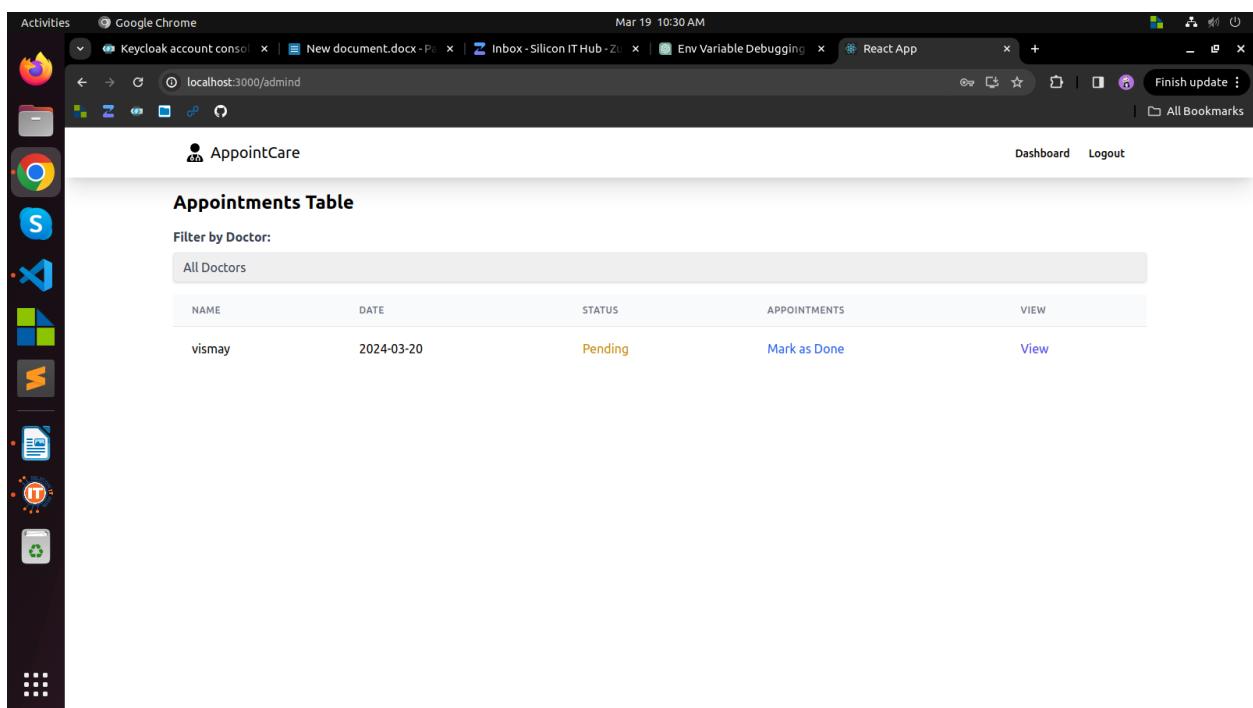
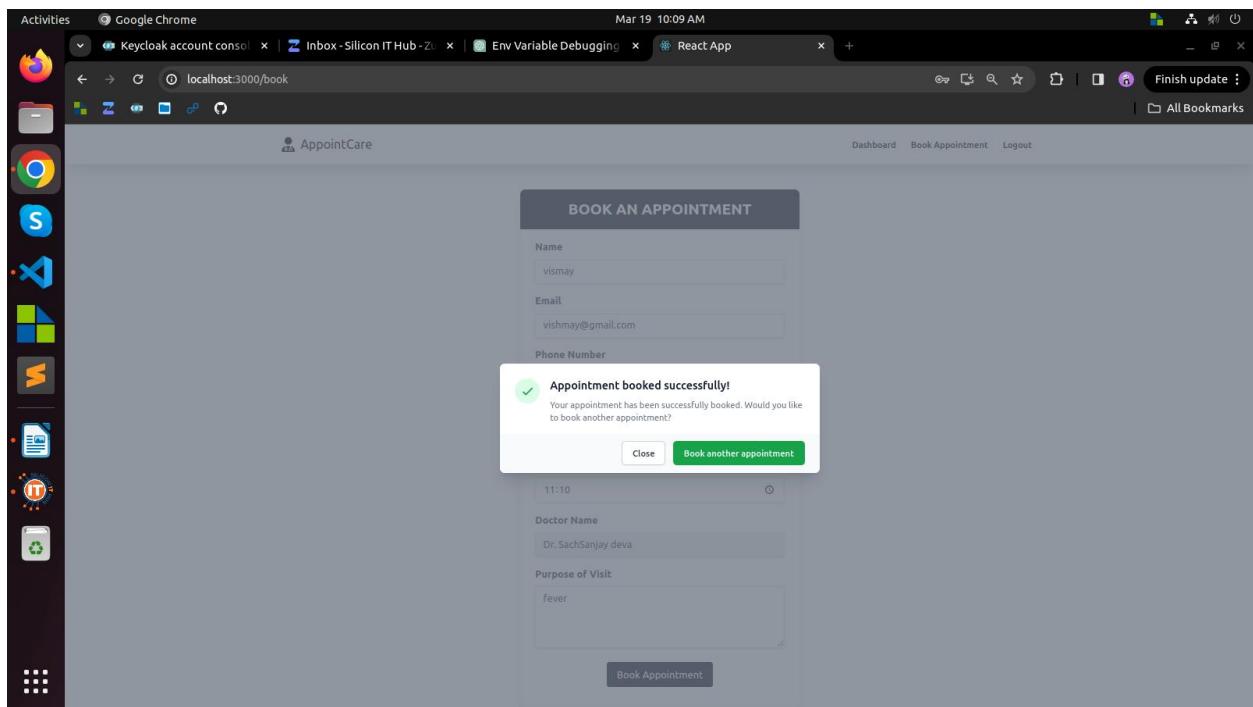
Conclusion:

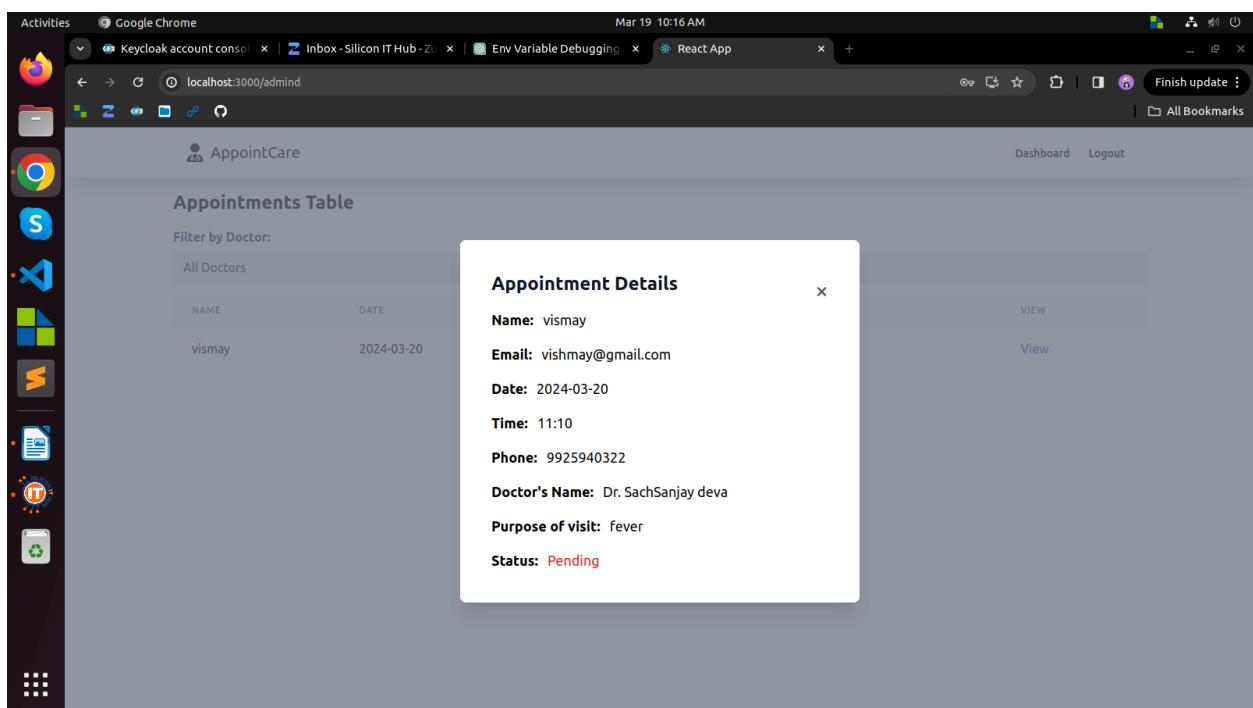
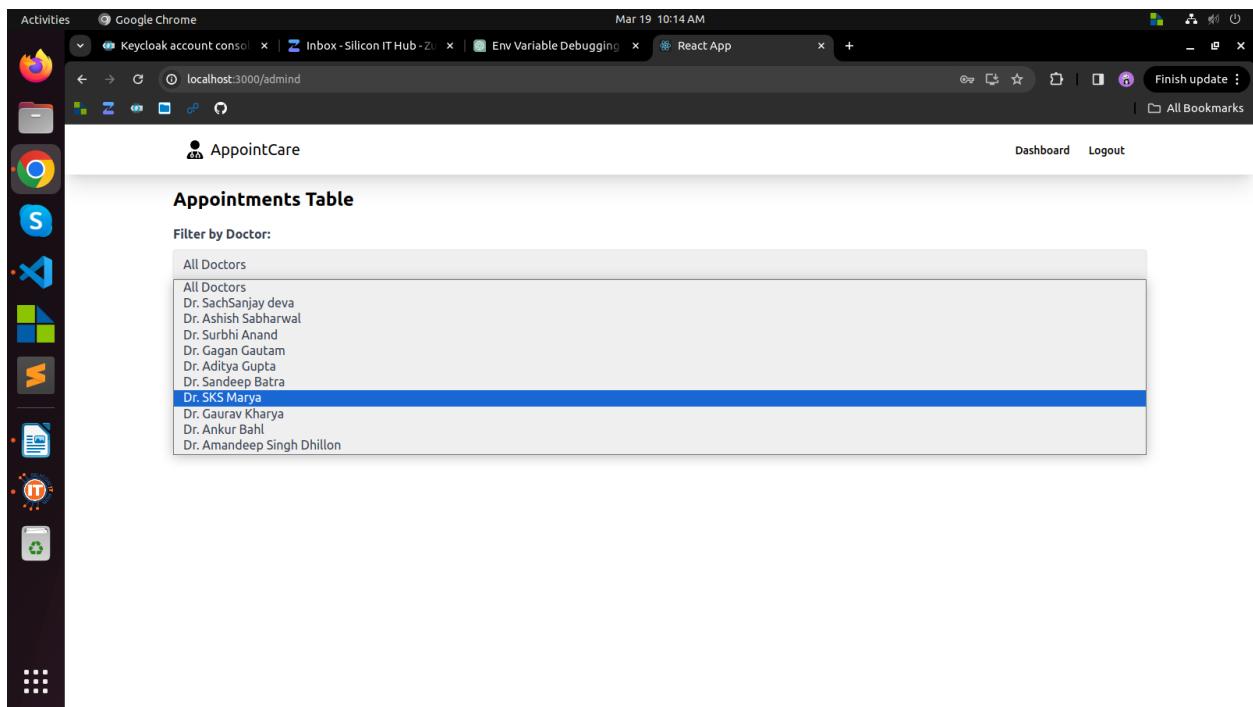
These projects successfully addressed their respective objectives by delivering intuitive and efficient web components and applications. Moving forward, further enhancements such as additional features, optimization for larger datasets, and integration of real-time updates can further improve the functionality and user experience of these projects.

Screen Shots:









Week 8

Objective:

Our objective this week was to develop a dynamic job role management system that allows for seamless addition or removal of job roles based on organizational needs. Additionally, we aimed to streamline the employee registration process and provide an insightful dashboard for centralized employee management.

Accomplishments:

Dynamic Job Role Management:

- Implemented a flexible system allowing for the dynamic addition or removal of job roles, facilitating quick adaptation to changing organizational requirements.
- Developed intuitive interfaces for administrators, enabling easy management of job roles without necessitating technical expertise.

Simplified Employee Registration:

- Streamlined the employee registration process by creating user-friendly forms to capture essential information such as personal details, contact information, and job preferences.
- Employed validation techniques to ensure accurate data entry and minimize errors during registration.

Insightful Dashboard:

- Designed and implemented a centralized dashboard providing comprehensive insights into all employee records.
- Incorporated data visualization techniques such as charts and graphs to present key metrics related to employee demographics, job roles distribution, and performance indicators.

Conclusion:

This week, we accomplished our goals of creating a dynamic job role management system, simplifying employee registration, and implementing an insightful dashboard. These achievements mark significant progress in enhancing organizational operations. Moving forward, we'll iterate based on feedback and ensure ongoing support for system efficiency and compliance.

Week 9

Objective:

During Week 9, our aim was to master efficient data handling techniques and implement dynamic filtering functionalities to enhance user experience while applying these concepts in practical scenarios to solidify skills in data manipulation and front-end development.

Accomplishments:

Efficient Data Handling:

- Managed a large dataset of 10,000 records adeptly.
- Utilized asynchronous JavaScript and optimized API requests for seamless data processing.
- Implemented error handling mechanisms for graceful management of exceptions.

Dynamic Filtering Implementation:

- Implemented robust filtering enabling users to retrieve data based on specific criteria.
- Developed dynamic filtering components for customized data retrieval.

Interactive Table Display:

- Utilized interactive table components for clear data visualization.
- Implemented sorting functionalities for ease of data organization.

Seamless Pagination Integration:

- Integrated pagination for improved performance and user navigation.
- Implemented both client-side and server-side pagination techniques.

Conclusion:

In Week 9, we successfully mastered data handling techniques and implemented dynamic filtering functionalities, enhancing user experience and solidifying skills in data manipulation and front-end development. Moving forward, we'll gather feedback, iterate on functionalities, optimize performance, and continue learning emerging technologies and best practices.

Week 10

Objective:

During Week 10, our focus was on reinforcing fundamental concepts, mastering code optimization techniques, and implementing code splitting strategies in React applications. Additionally, efforts were made to optimize the existing website to enhance its speed, performance, and overall responsiveness.

Accomplishments:

Online Exercise Completion:

- Successfully completed a series of online exercises to reinforce fundamental programming and web development concepts.
- Engaged in problem-solving tasks to enhance algorithmic thinking and deepen understanding of core concepts.

Code Optimization Techniques:

- Acquired knowledge of various code optimization strategies to improve application performance and efficiency.
- Implemented techniques such as minimizing redundant code, optimizing loops, and reducing unnecessary computations to enhance code quality and performance.

React Code Splitting Mastery:

- Mastered the implementation of code splitting techniques in React applications to improve resource utilization and reduce initial load times.
- Utilized tools like `React.lazy` and dynamic imports to load components dynamically, resulting in faster page rendering and enhanced user experience.

Conclusion:

In Week 10, we focused on reinforcing fundamentals, mastering code optimization, and implementing React code splitting. We optimized our website for speed and performance. Moving forward, we'll continue learning, exploring advanced React features, and maintaining our site's performance.

Screen shots:

Filter by Category

FIRST NAME	LAST NAME	EMAIL	GENDER	ORDER_STATUS	PRICE	MONTH	CATEGORY	VIEW
Bev	Patzelt	bpatzelt0@abc.net.au	Male	pending	1809.22	2020-12	electronics	View
Phillipe	Newbery	pnewbery1@intel.com	Male	delivered	5760.84	2022-07	clothing	View
Taddeusz	MacFadzan	tmacfadzan2@boston.com	Male	cancelled	6847.02	2021-07	accessories	View
Garwood	McGeagh	gmcgeagh3@soup.io	Male	cancelled	2419.45	2021-08	home goods	View
Seth	Hurdidge	shurdidge4@cyberchimps.com	Male	pending	7498.44	2022-03	accessories	View
Rosy	Oxenford	roxenford5@jigsys.com	Genderqueer	processing	3617.67	2020-06	beauty	View
Ibby	Scruby	iscruby6@auda.org.au	Female	shipped	5529.44	2022-04	electronics	View

1 2 3 4 5 ... 143 >

Order Details

First Name: Bev
Last Name: Patzelt
Email: bpatzelt0@abc.net.au
Gender: Male
Category: electronics
Size: extra large
Color: Blue
Material: polyester
Company: Nike
Order Status: pending
Payment Method: credit card
Date: 2020-12
Address: 0287 Mifflin Park
City: Fort Collins
State: CO
Country: United States
Pin Code: 80525

Week 11

Objective:

Week 11 was dedicated to gaining proficiency in React Redux, a state management library for React applications, and applying its concepts to develop practical projects. The primary focus was on understanding Redux core concepts, developing a Todo application, designing a dynamic dashboard, and exploring Redux middleware for handling asynchronous actions.

Accomplishments:

Introduction to React Redux Core:

- Explored Redux core concepts like actions, reducers, and the store for efficient state management.
- Embraced unidirectional data flow and immutability principles for stable state changes.

Development of Todo Application:

- Utilized React Redux for a fully functional Todo app, implementing Redux actions and reducers.
- Integrated Redux store to seamlessly manage global state and facilitate data flow between components.

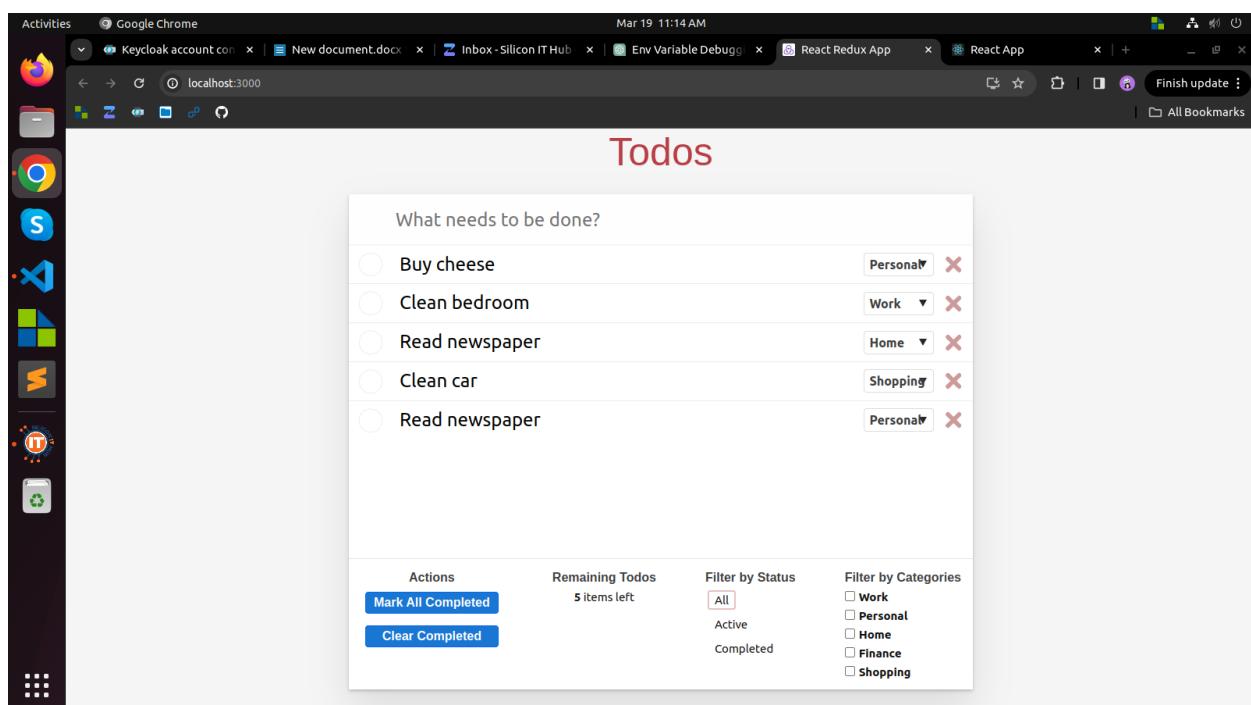
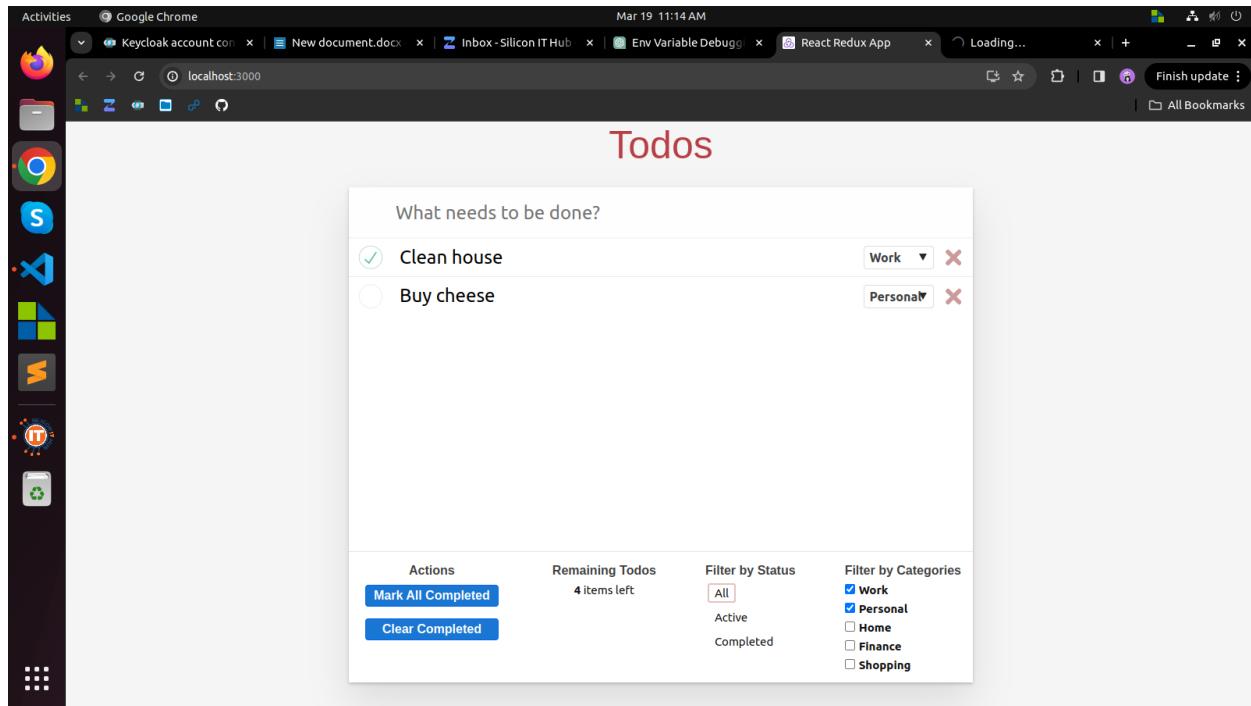
Integration of Redux Middleware:

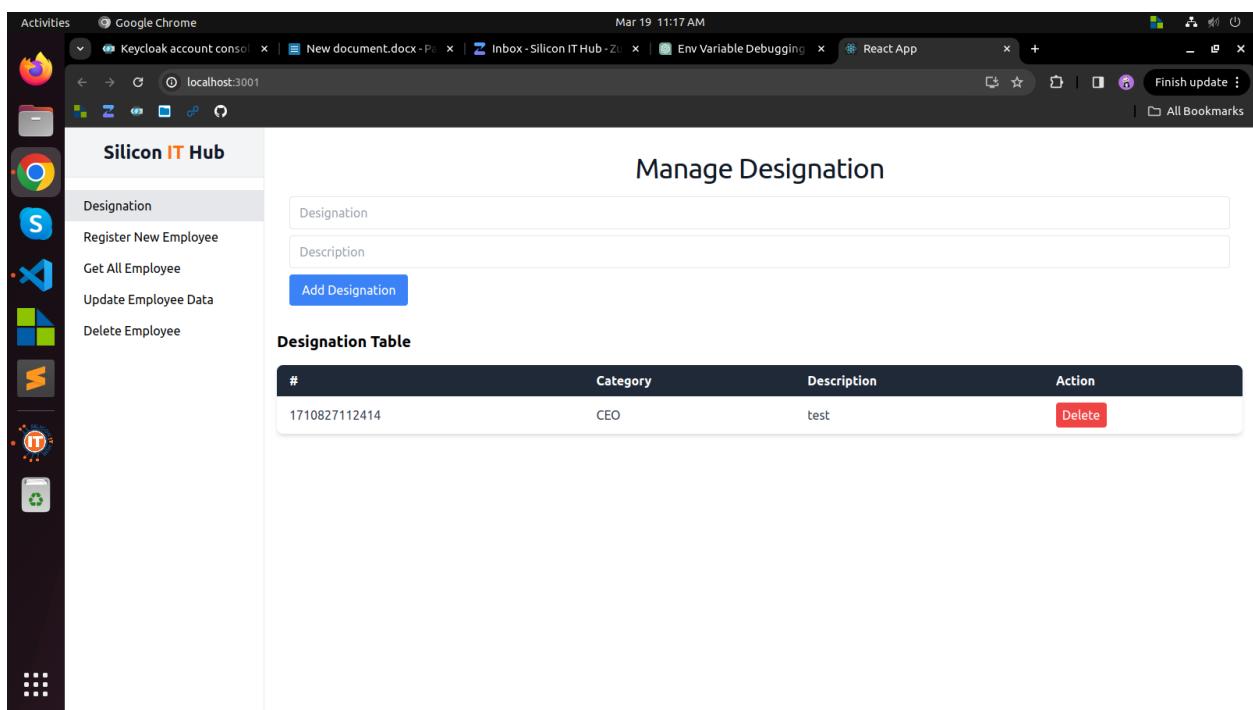
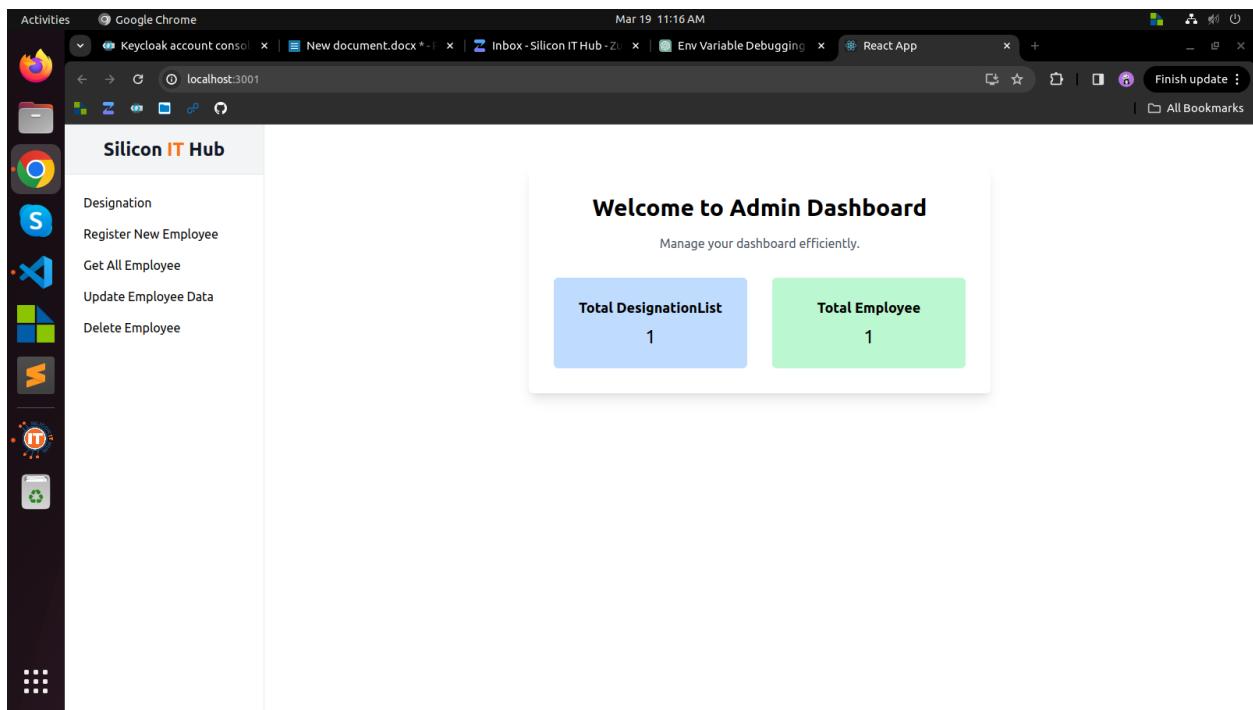
- Explored Redux middleware for handling asynchronous actions, integrating Redux Thunk for data fetching.
- Leveraged middleware for intercepting and processing actions, enhancing data manipulation capabilities.

Conclusion:

In Week 11, we mastered React Redux fundamentals, developed a Todo app, designed a dynamic dashboard, and explored Redux middleware. These achievements bolster our skills in state management and front-end development. Moving forward, we'll delve into advanced Redux concepts, optimize codebases, explore more Redux ecosystem tools, and apply Redux techniques in real-world projects.

Screen Shots:





Activities Google Chrome Mar 19 11:17 AM

localhost:3001

Silicon IT Hub

Designation

Add Designation

Designation Table

#	Category	Description	Action
1710827112414	CEO	test	Delete
1710827254204	Project Manager	test	Delete

Designation added successfully!

Activities Google Chrome Mar 19 11:17 AM

localhost:3001

Silicon IT Hub

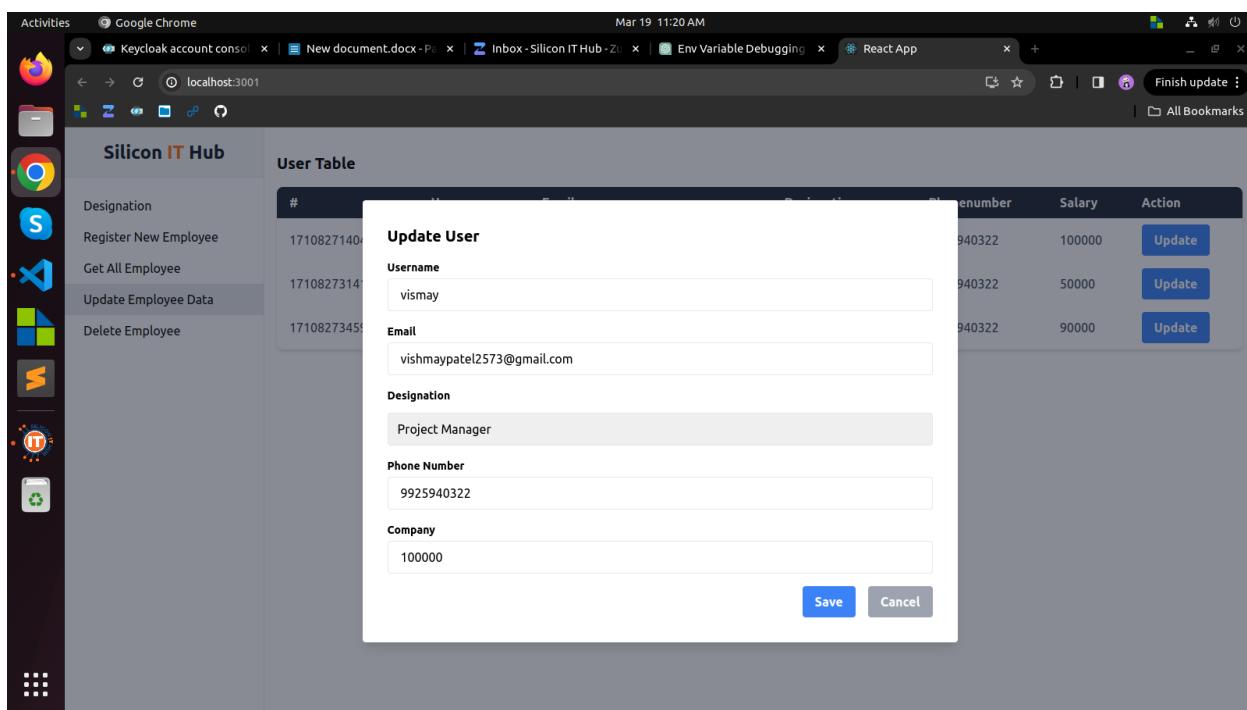
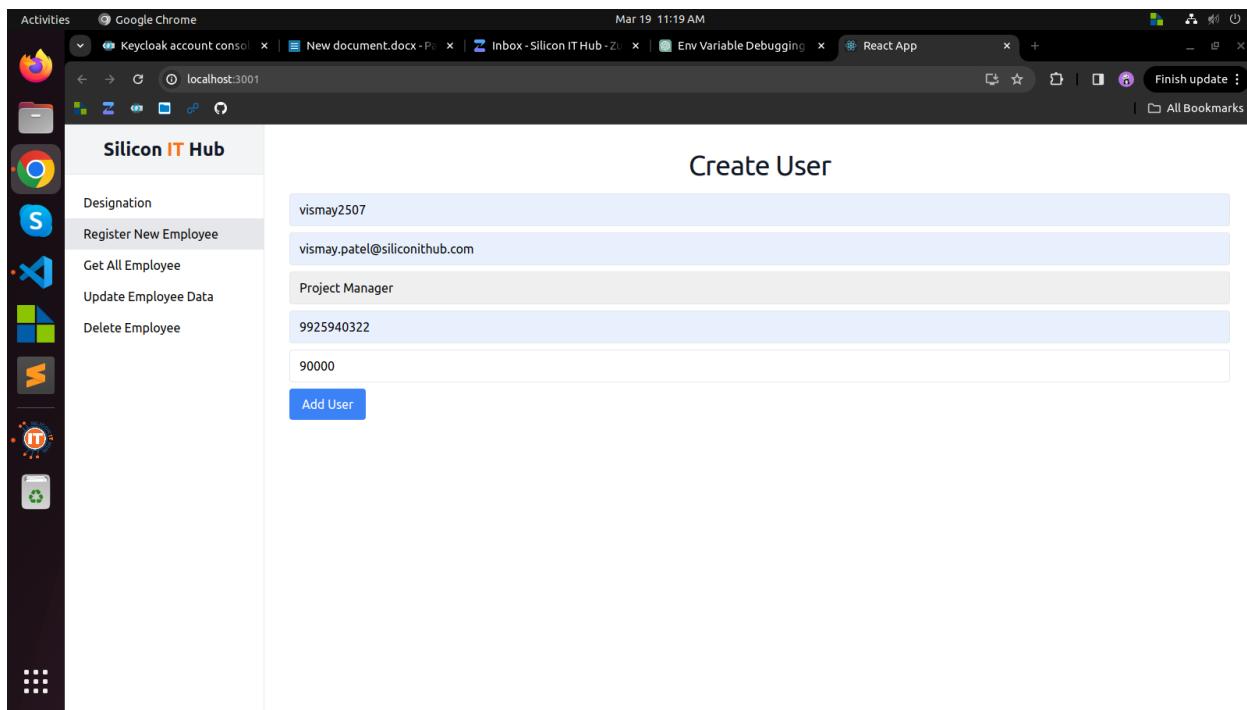
Designation

Add Designation

Designation Table

#	Category	Description	Action
1710827254204	Project Manager	test	Delete

Designation deleted successfully!



The screenshot shows a web browser window titled "Activities" with the URL "localhost:3001". The main content is a table titled "User Table" with columns: #, Username, Email, Designation, Phononenumber, Salary, and Action. There are three rows of data. A success message "User updated successfully!" with a green checkmark icon is displayed in the top right corner of the table area.

#	Username	Email	Designation	Phononenumber	Salary	Action
1710827140410	vismay	vishmaypatel2573@gmail.com	Project Manager	9925940322	300000	<button>Update</button>
1710827314116	vismay2573	vishmaypatel2573@gmail.com	Project Manager	9925940322	50000	<button>Update</button>
1710827345926	vismay2507	vismay.patel@siliconithub.com	Project Manager	9925940322	90000	<button>Update</button>

The screenshot shows a web browser window titled "Activities" with the URL "localhost:3001". The main content is a table titled "User Table" with columns: #, Username, Email, Designation, Phononenumber, Salary, and Action. There are two rows of data. A success message "User deleted successfully!" with a yellow warning icon is displayed in the top right corner of the table area.

#	Username	Email	Designation	Phononenumber	Salary	Action
1710827314116	vismay2573	vishmaypatel2573@gmail.com	Project Manager	9925940322	50000	<button>Delete</button>
1710827345926	vismay2507	vismay.patel@siliconithub.com	Project Manager	9925940322	90000	<button>Delete</button>

Week 12

Objective:

Week 12 aimed to master Redux Toolkit for streamlined state management and apply this knowledge to develop a dynamic social media application with enhanced user interaction.

Accomplishments:

Learning Redux Toolkit:

- Grasped core concepts including slices, reducers, actions, and middleware.
- Became proficient in utilizing Redux DevTools for debugging and monitoring state changes.

Developing Social Media App:

- Created a dynamic social media application with features like posting, reactions, notifications, and real-time updates.
- Leveraged Redux Toolkit's simplified syntax and built-in utilities for efficient state handling and consistency across components.

Enhancing User Interaction:

- Implemented interactive features such as posting, reactions, and notifications to foster active user participation.
- Utilized real-time updates via Socket.IO for instant feedback on interactions and content changes.

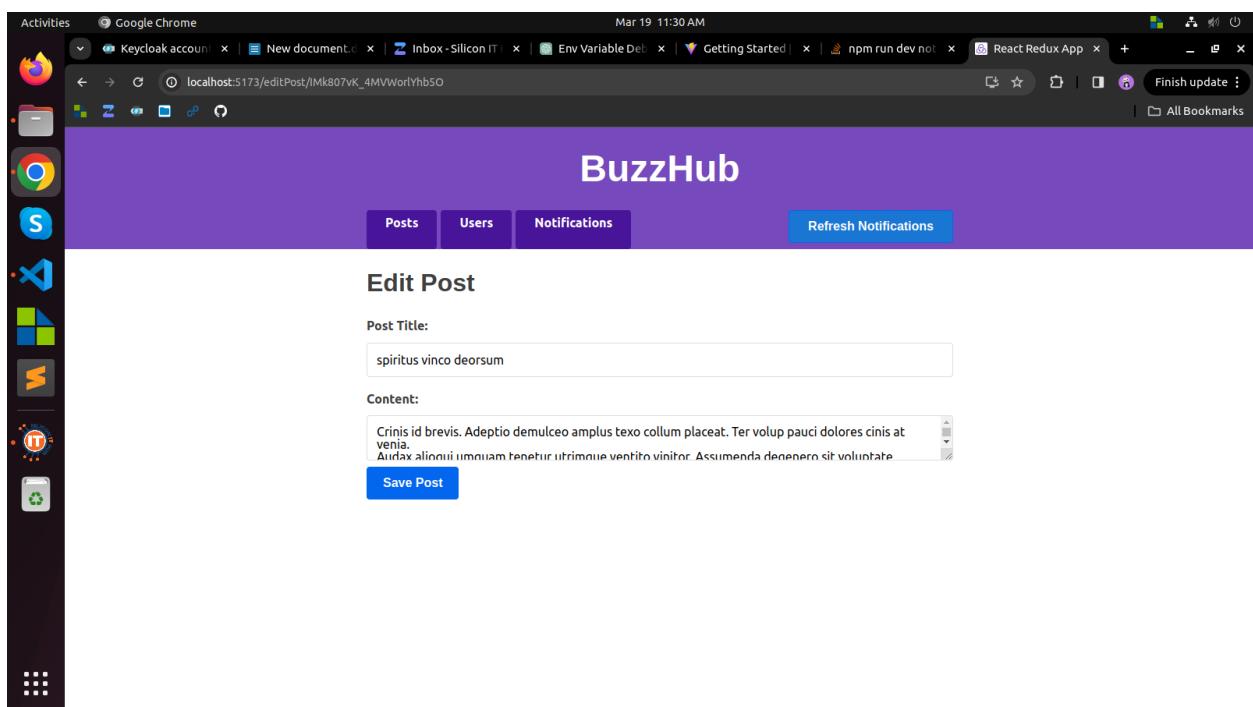
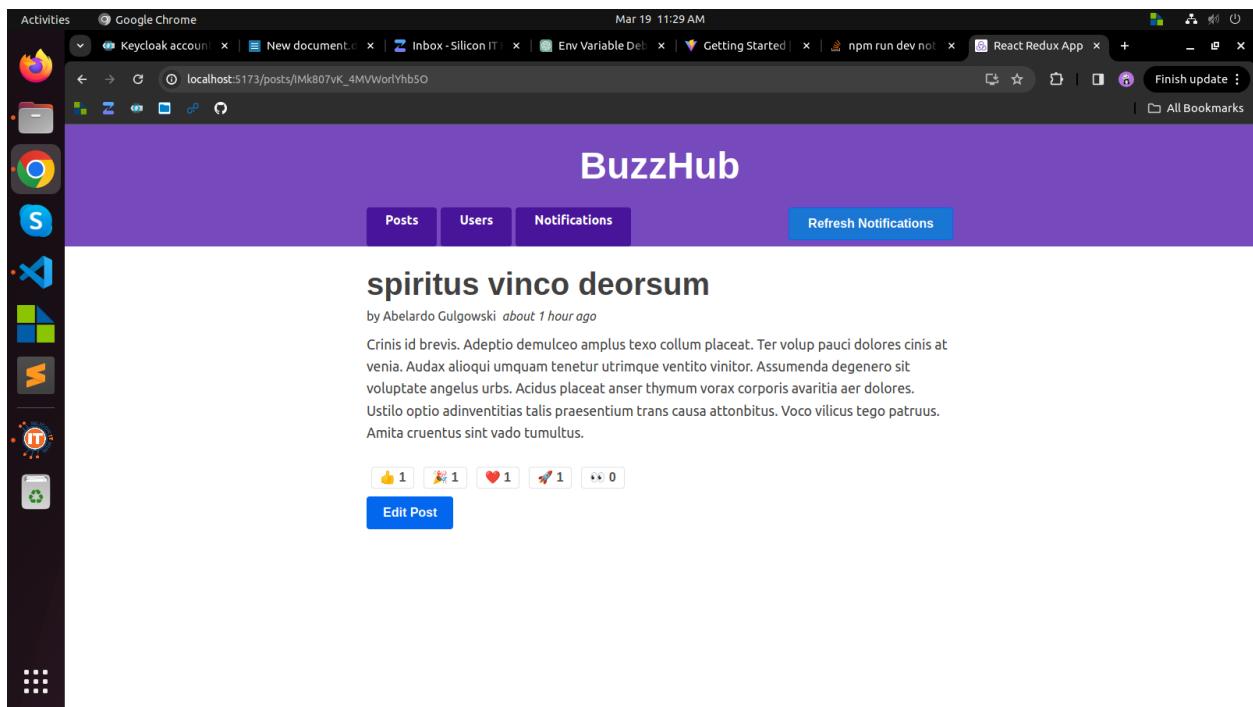
Conclusion:

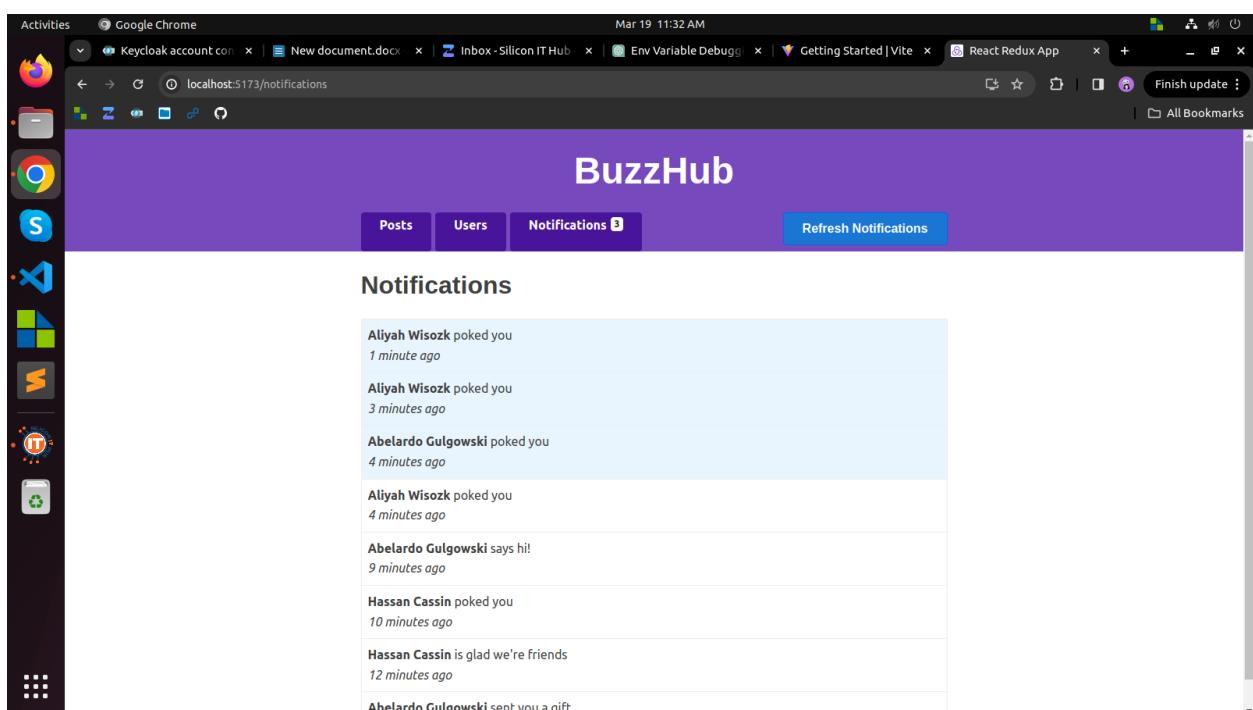
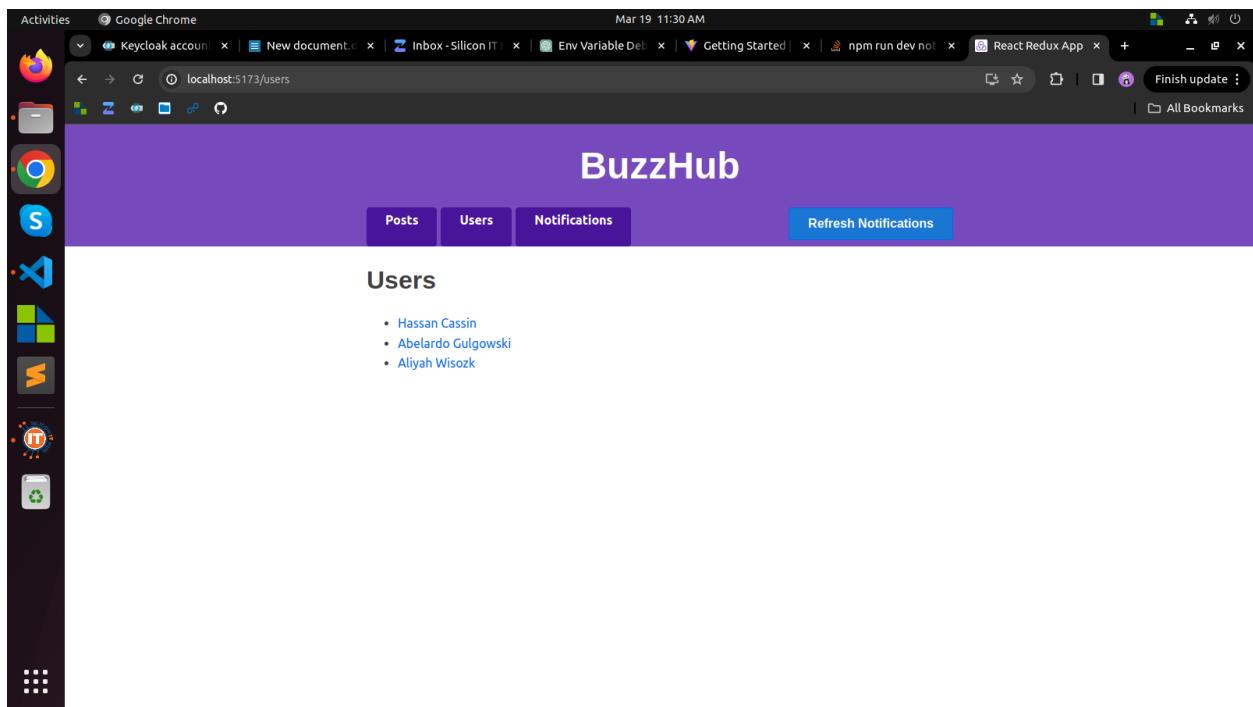
In Week 12, we successfully mastered Redux Toolkit and applied it to develop a dynamic social media application with enhanced user interaction. By leveraging Redux Toolkit's simplified syntax and built-in utilities, we ensured efficient state handling and consistency across components. Moving forward, we'll conduct testing and debugging, explore advanced Redux Toolkit features, and iterate based on user feedback to enhance the application's design and functionality.

Screen Shots:

The screenshot shows a web browser window titled "Redux Essentials Example". The main content area is a form titled "Add a New Post" with fields for "Post Title", "Author", and "Content", and a "Save Post" button. Above the form is a navigation bar with tabs for "Posts", "Users", and "Notifications". A sidebar on the left contains various icons for file operations like copy, paste, and search.

The screenshot shows a web browser window titled "React Redux App" displaying a list of posts. The first post is titled "spiritus vinco deorsum" by Abelardo Gulgowski, posted 43 minutes ago. The second post is titled "vetus terreo non" by Aliyah Wisozk, posted 1 day ago. The third post is titled "aranea supellex thorax" by Hassan Cassin, posted 1 day ago. Each post has a "View Post" button and a row of social media icons for likes, shares, and other interactions.





Week 13

Objective:

The objective of this week was to further develop and refine the Budget Buddy expense tracker application and complete the creation of my professional portfolio website. This involved implementing key features in Budget Buddy to enhance user experience and functionality, as well as ensuring my portfolio effectively showcases my skills, projects, and experience.

Accomplishments:

Budget Buddy App Development:

- Implemented "Add Cash In" and "Cash Out" functionality, allowing users to accurately track their financial transactions.
- Enhanced management of payment categories and methods to provide users with better organization and control over their expenses.
- Integrated a report generation feature, enabling users to analyze their expenditure patterns and make informed financial decisions.

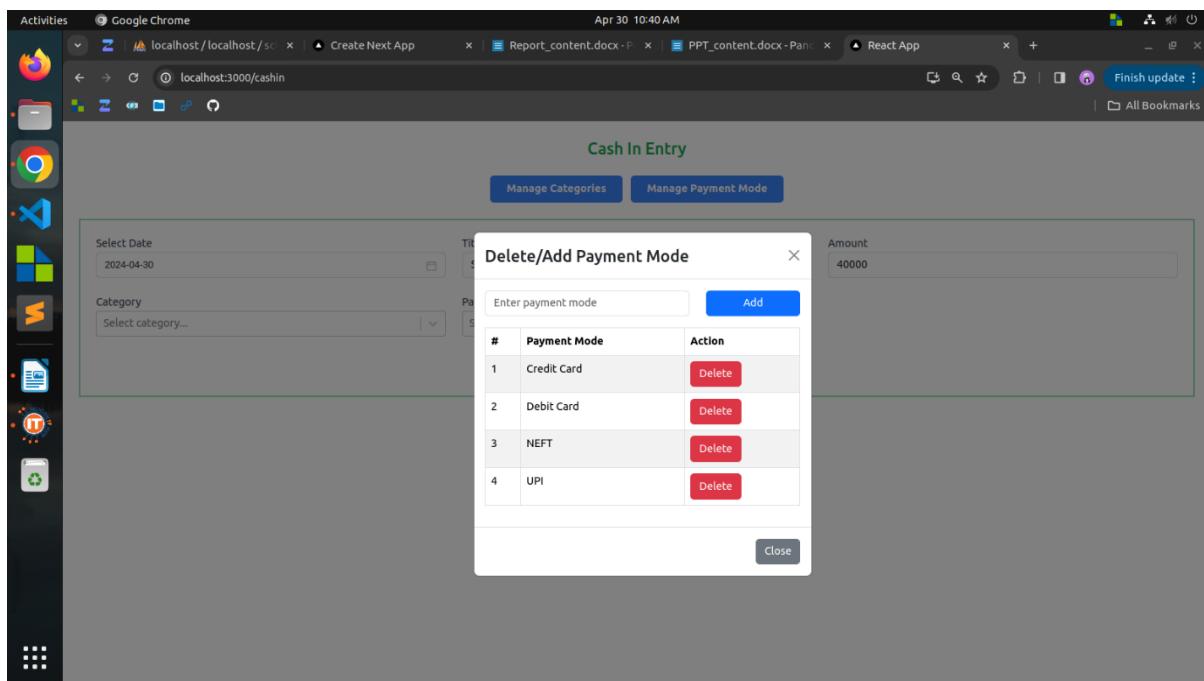
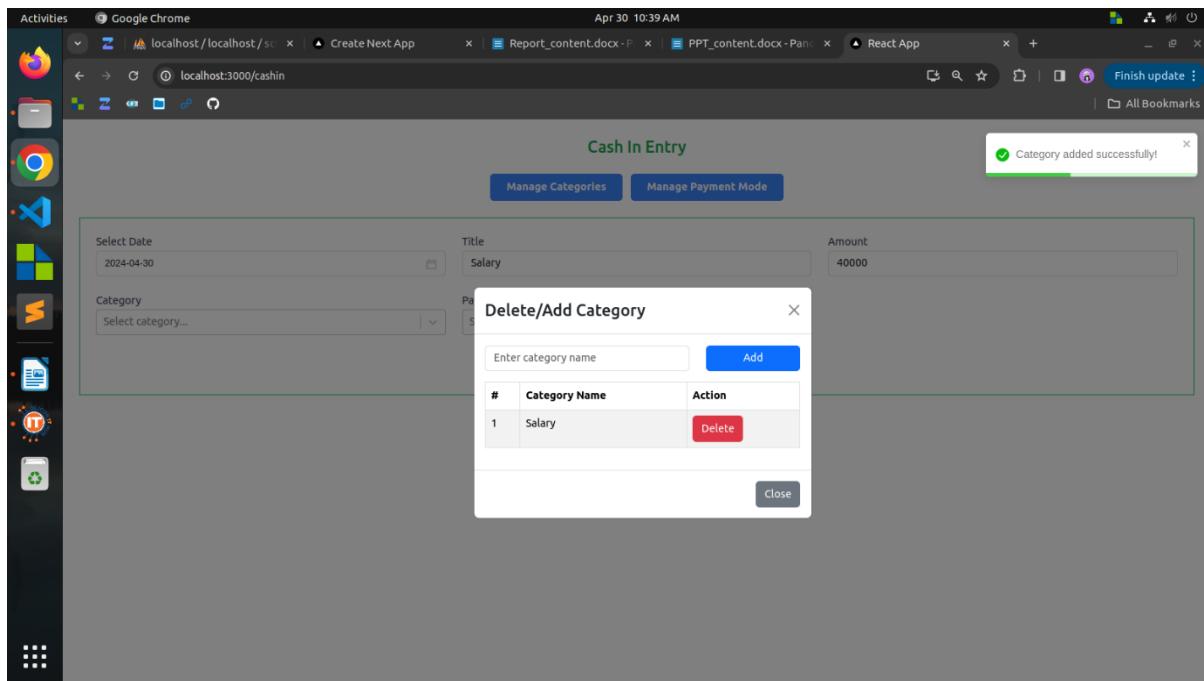
Portfolio Website Creation:

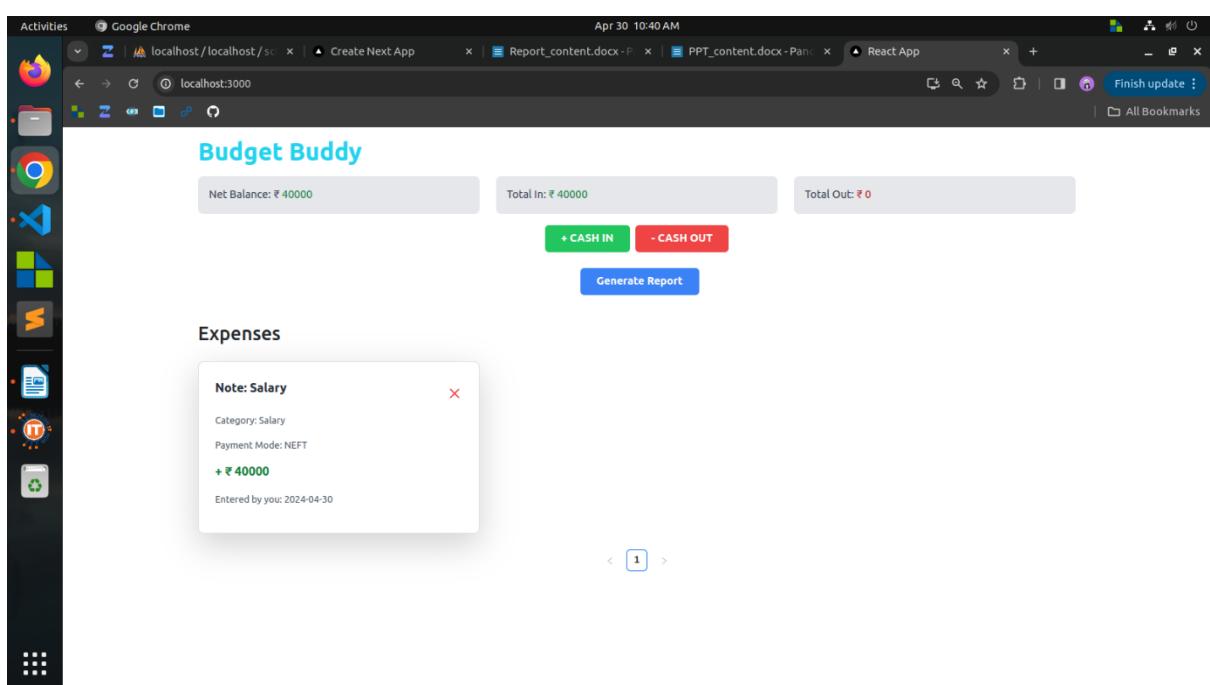
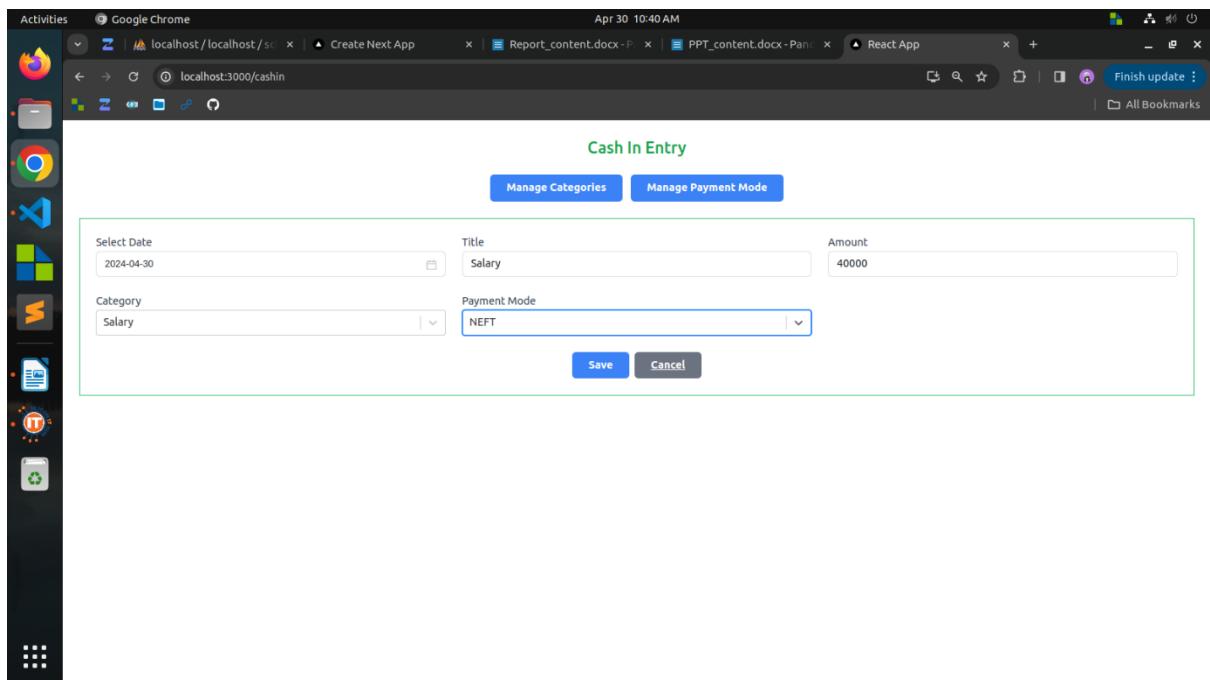
- Designed and developed my professional portfolio website, featuring sections such as "About Me," "Blogs," "Projects," "Resume," and "Contact."
- Crafted engaging content for each section to effectively communicate my skills, interests, and achievements.
- Ensured seamless navigation and user-friendly interface to provide visitors with a pleasant browsing experience.

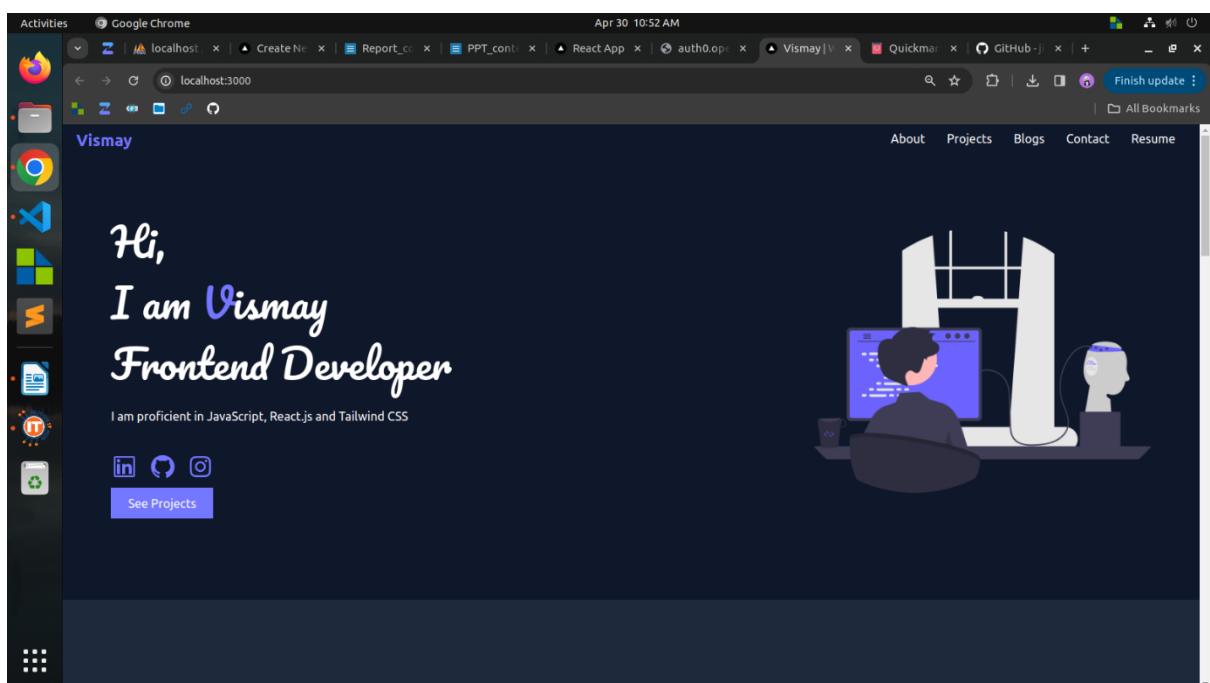
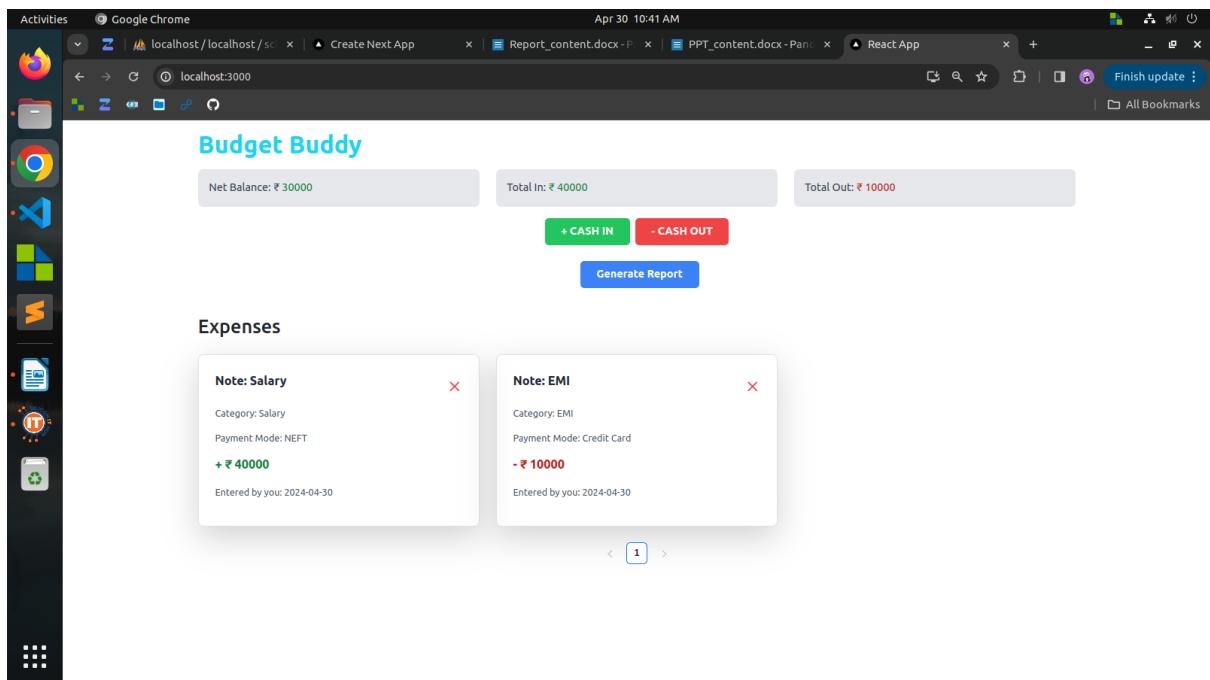
Conclusion:

This week was highly productive and rewarding as I successfully achieved the set objectives. The development of Budget Buddy has progressed significantly, with essential features added to enhance its usability and value to users. Additionally, the completion of my portfolio website marks an important milestone in establishing my online presence and showcasing my capabilities to potential employers or collaborators. Looking ahead, I am excited to continue refining both projects and exploring opportunities for further growth and innovation.

Screen shots:







Week 14

Objective:

The objective of Week 14 was to develop and launch the CineSwap movie tracker application, leveraging React and the TMDB API to create a platform where users can explore and trade movies and TV shows. Additionally, I aimed to initiate my learning journey in Next.js, a popular React framework, to expand my skill set and explore new possibilities in web development.

Accomplishments:

CineSwap Development:

- Created "CineSwap: Your Ultimate Movie & TV Show Exchange" application using React and integrated it with the TMDB API.
- Implemented browsing functionality, allowing users to discover a wide range of movies and TV series available for trading.
- Incorporated features to display essential information such as ratings, synopsis, release dates, and trailers, providing users with comprehensive details to make informed decisions.

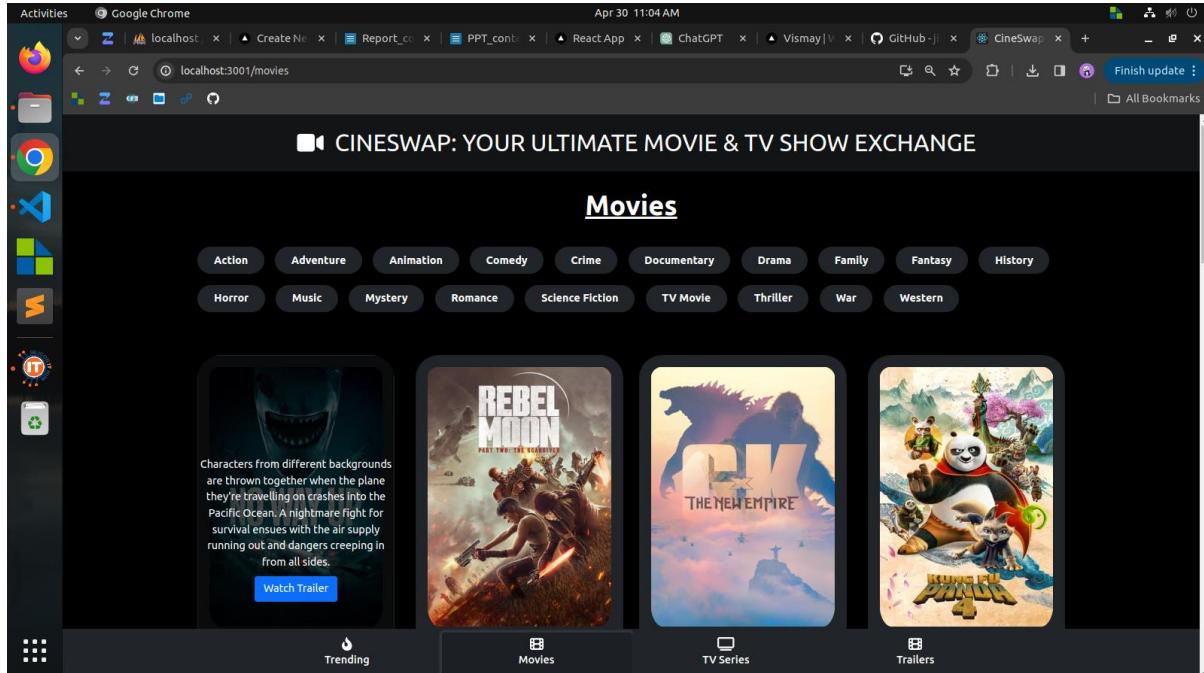
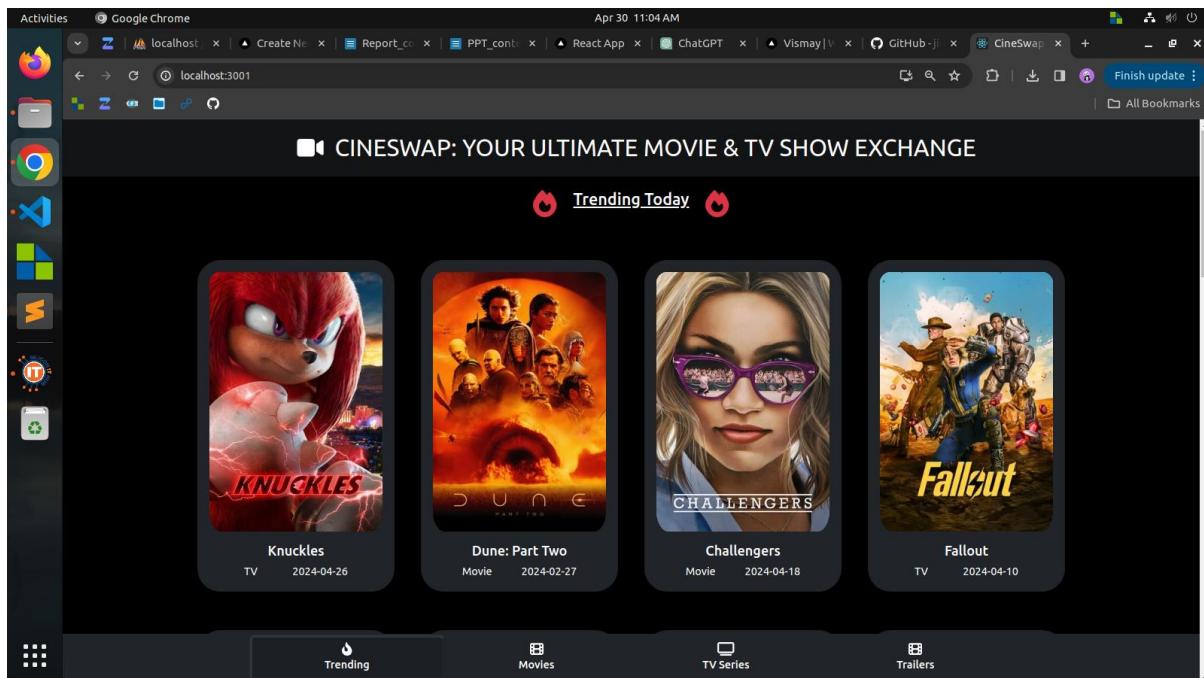
Learning Next.js:

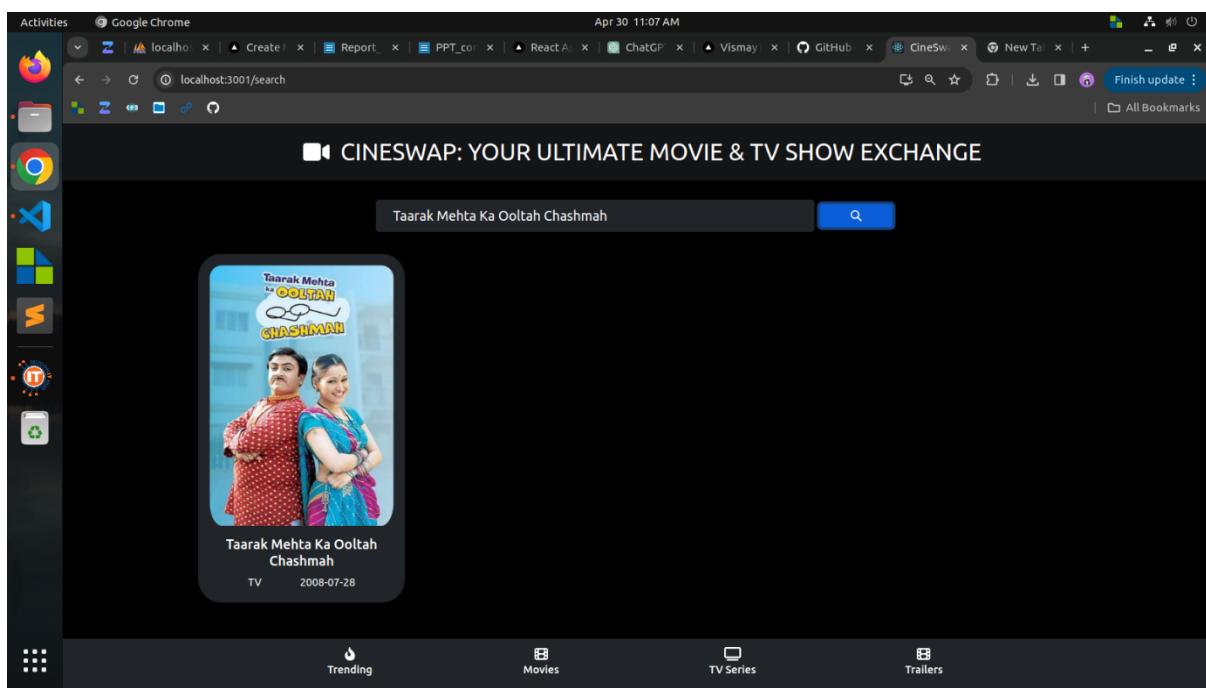
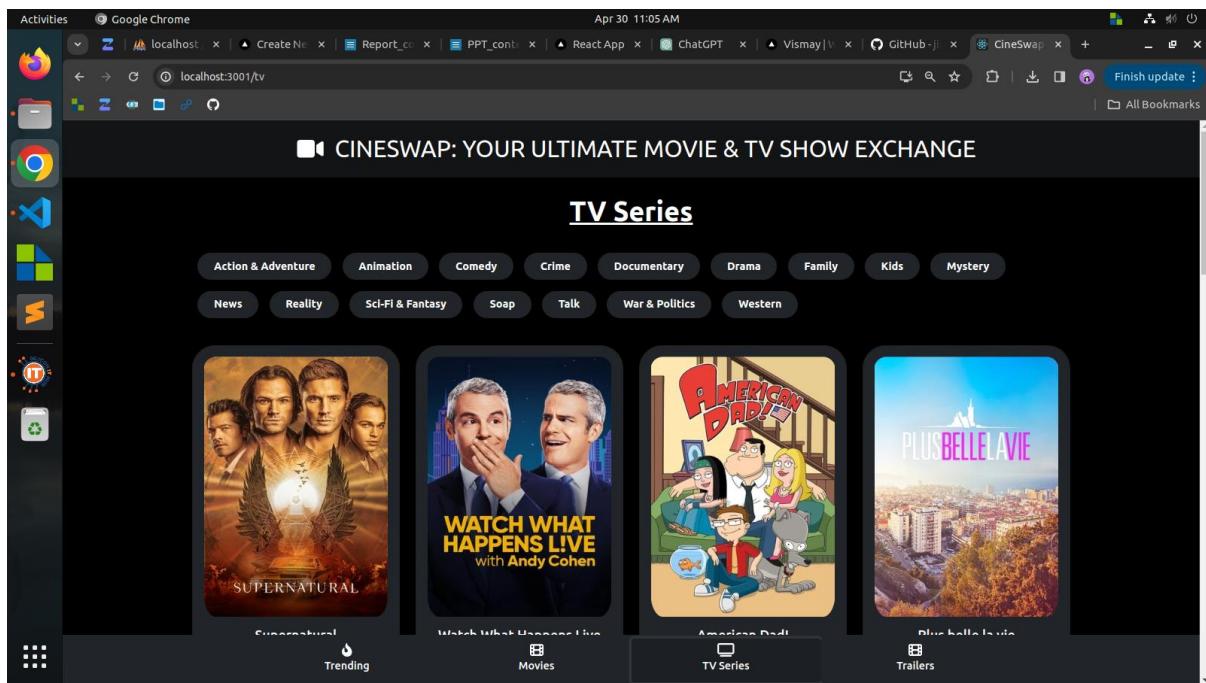
- Initiated the learning process for Next.js, a powerful React framework for building server-side rendered and statically generated web applications.
- Covered basics such as setting up a Next.js project, understanding routing, and exploring key concepts like server-side rendering and data fetching.
- Experimented with Next.js features to gain practical experience and insight into its advantages and applications in web development.

Conclusion:

Significant progress was made in project development and skill enhancement. CineSwap, a platform for movie and TV show trading, was successfully created and launched, offering valuable features and information to users. Additionally, starting to learn Next.js presents exciting opportunities to explore advanced web development techniques for creating dynamic and efficient web applications. Looking forward to refining CineSwap and deepening understanding of Next.js for continued growth and innovation as a developer.

Screen shots:





Week 15

Objective:

Mastered authentication using Appwrite and Nodemailer, integrated MongoDB for database management, and solidified Next.js skills by developing an advanced dashboard interface.

Accomplishments:

Appwrite Authentication:

- Implemented secure user authentication via Appwrite, enabling registration, login, and profile management.
- Ensured robust security, including password encryption and user verification, for data protection.

Nodemailer Integration:

- Integrated Nodemailer for sending verification emails and password recovery securely.
- Implemented secure email handling practices to uphold user data privacy.

MongoDB Database Integration:

- Successfully integrated MongoDB for efficient data storage and retrieval.
- Used MongoDB to manage user authentication data and profiles securely.

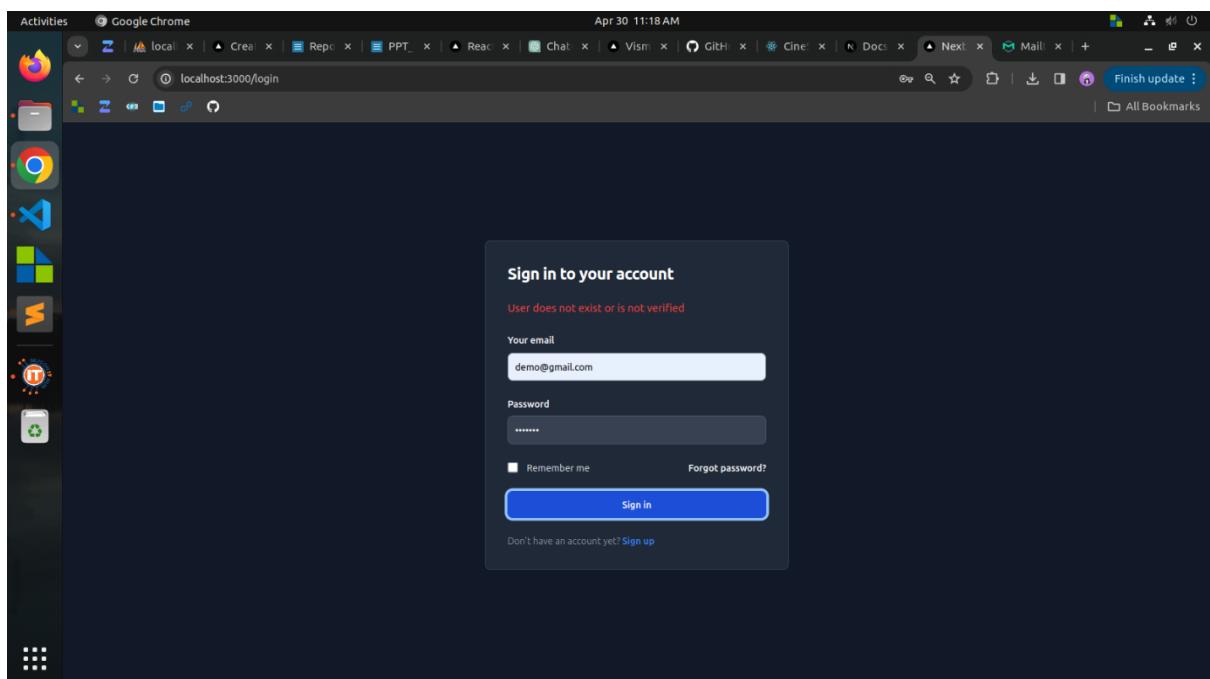
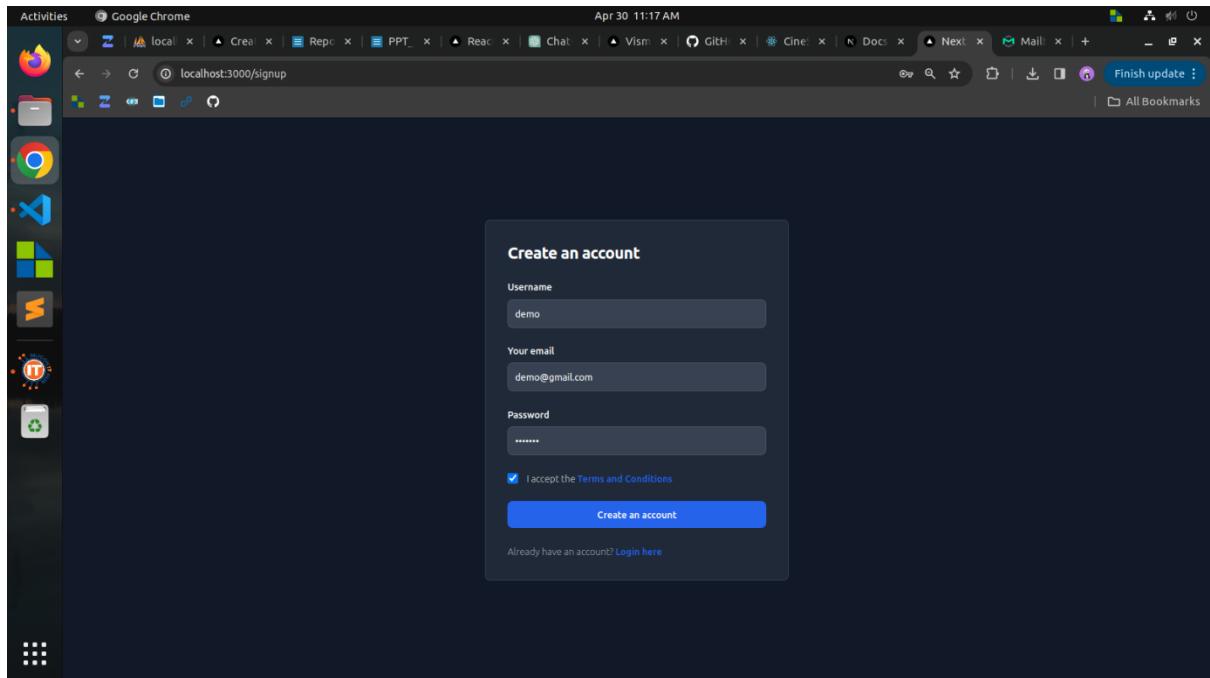
Next.js Dashboard Development:

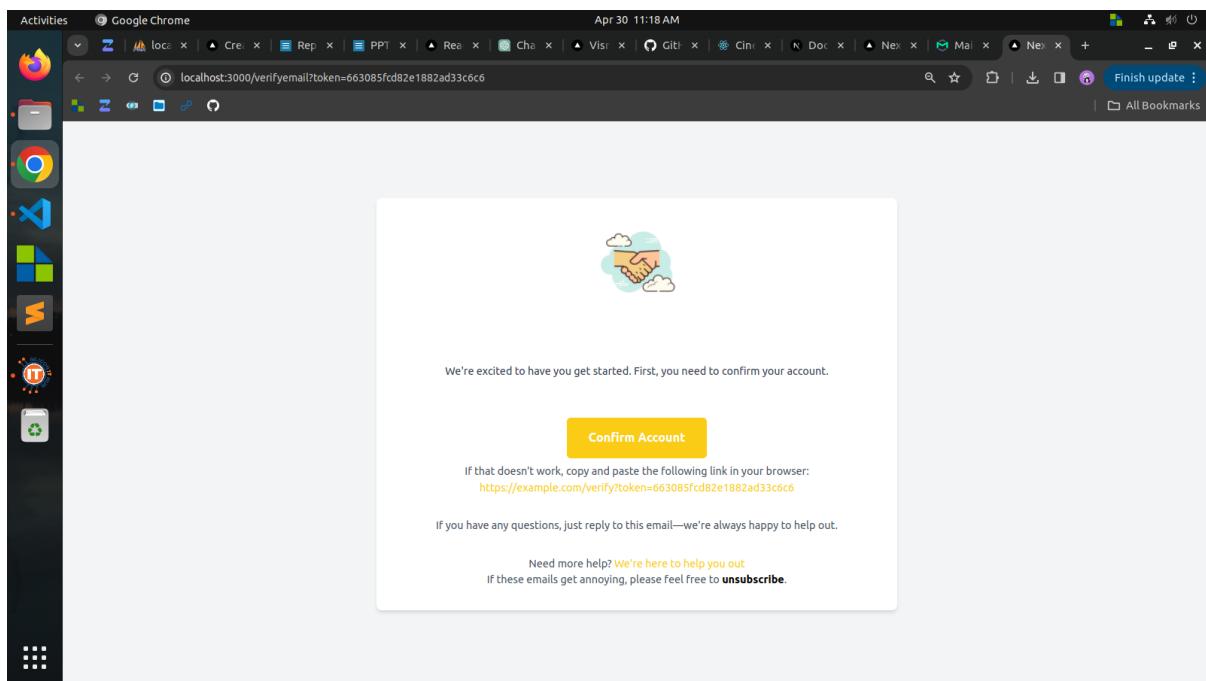
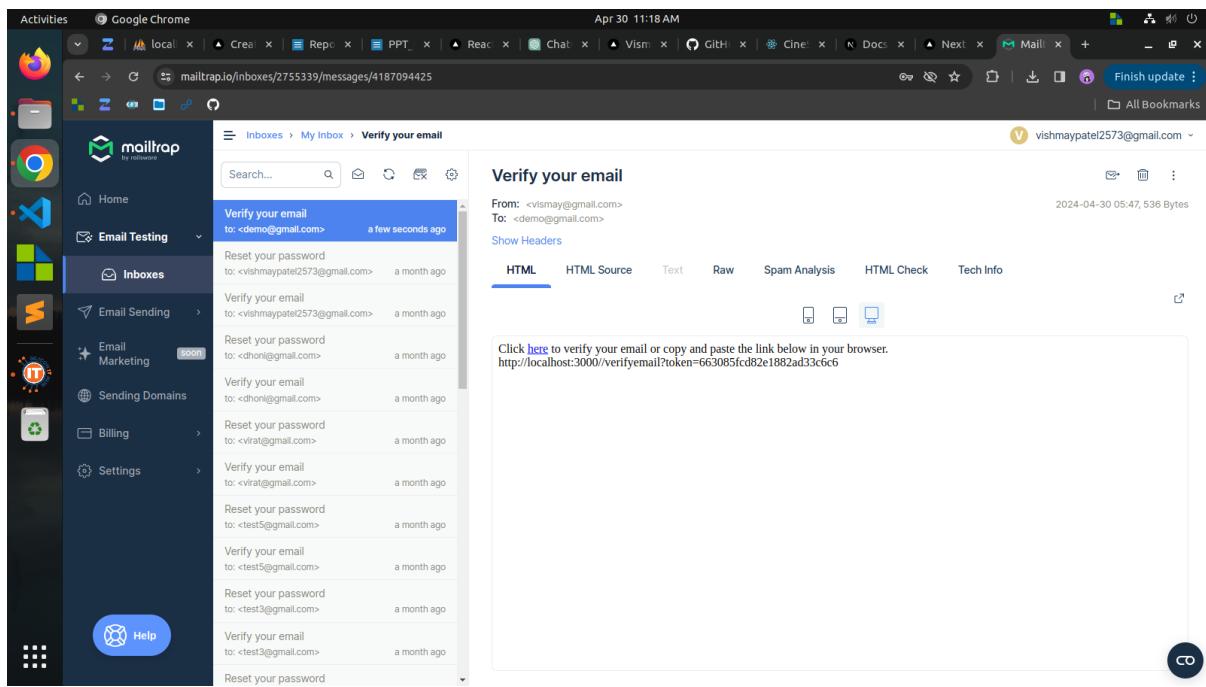
- Developed a comprehensive dashboard interface with Next.js, incorporating advanced features and best practices.
- Implemented styling techniques, optimizations, and error handling to enhance user experience and application performance

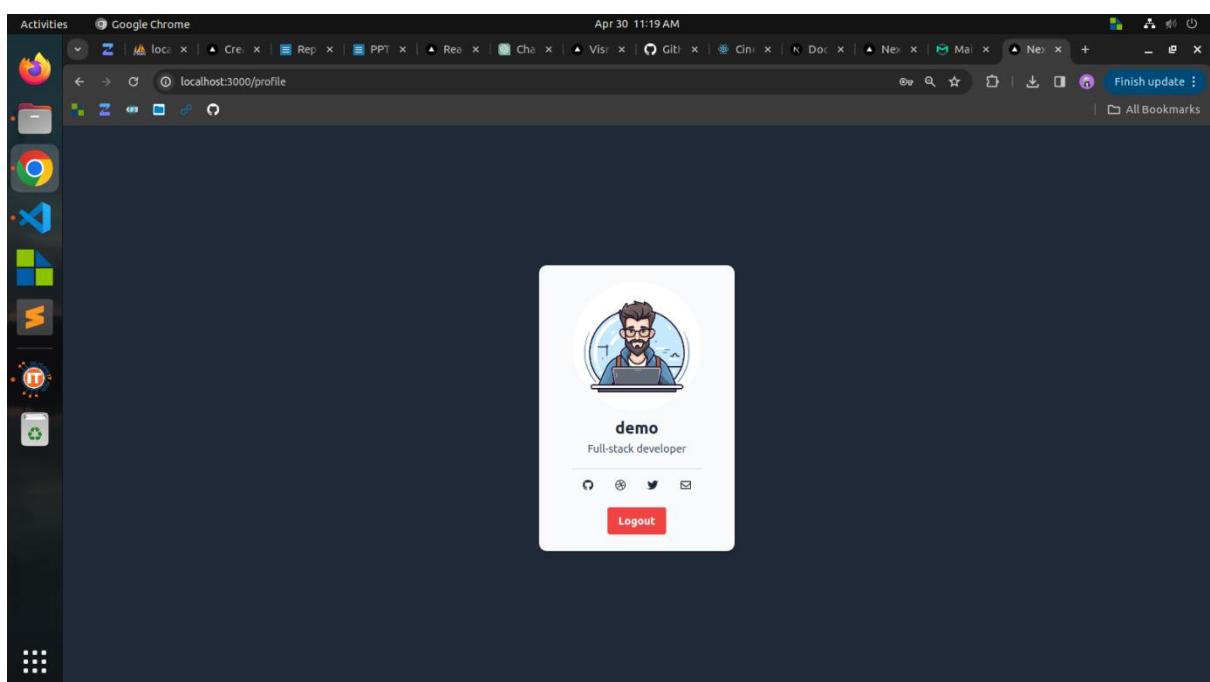
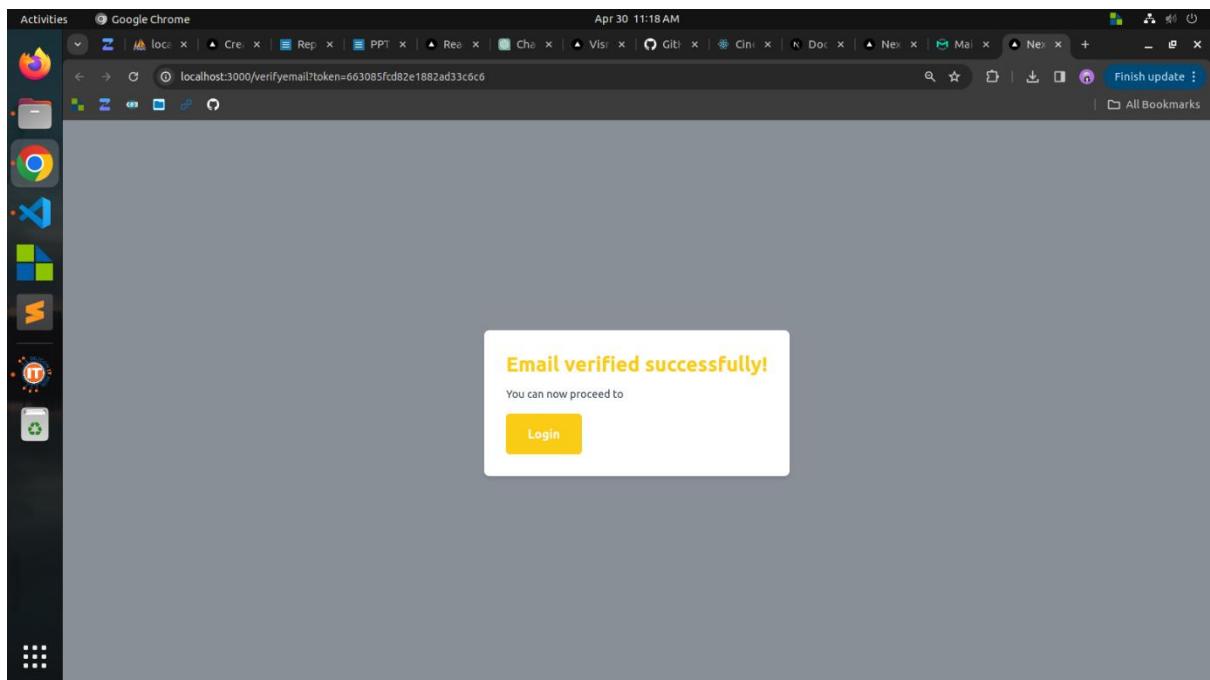
Conclusion:

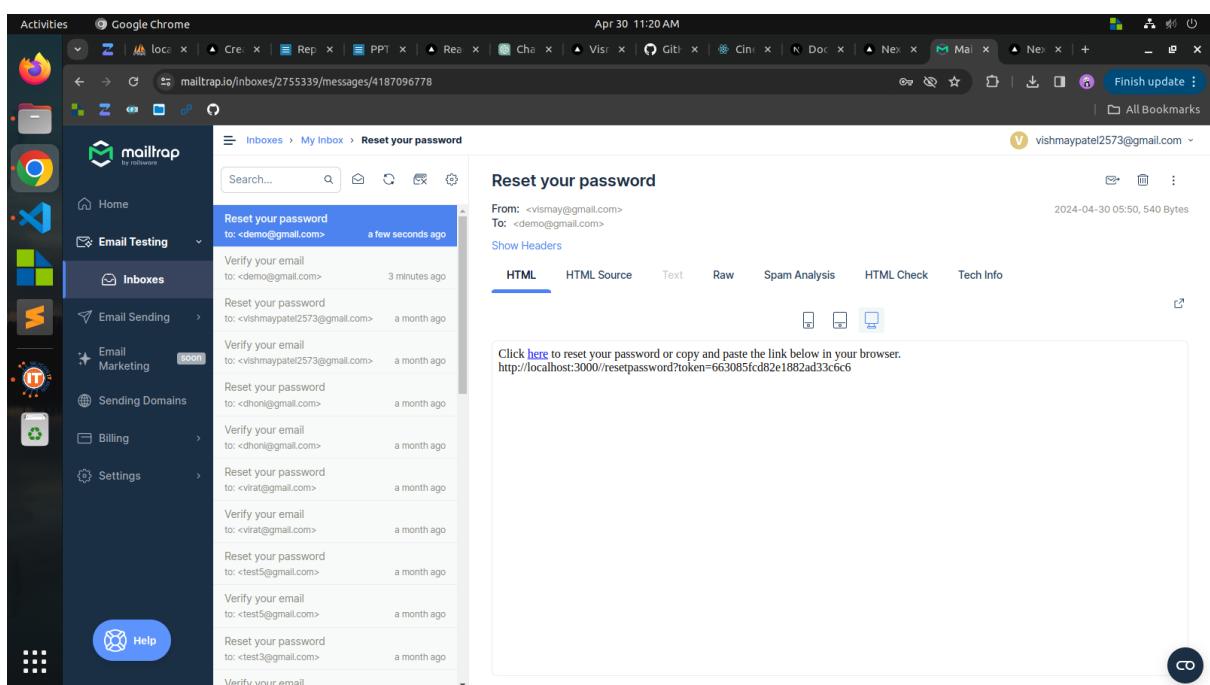
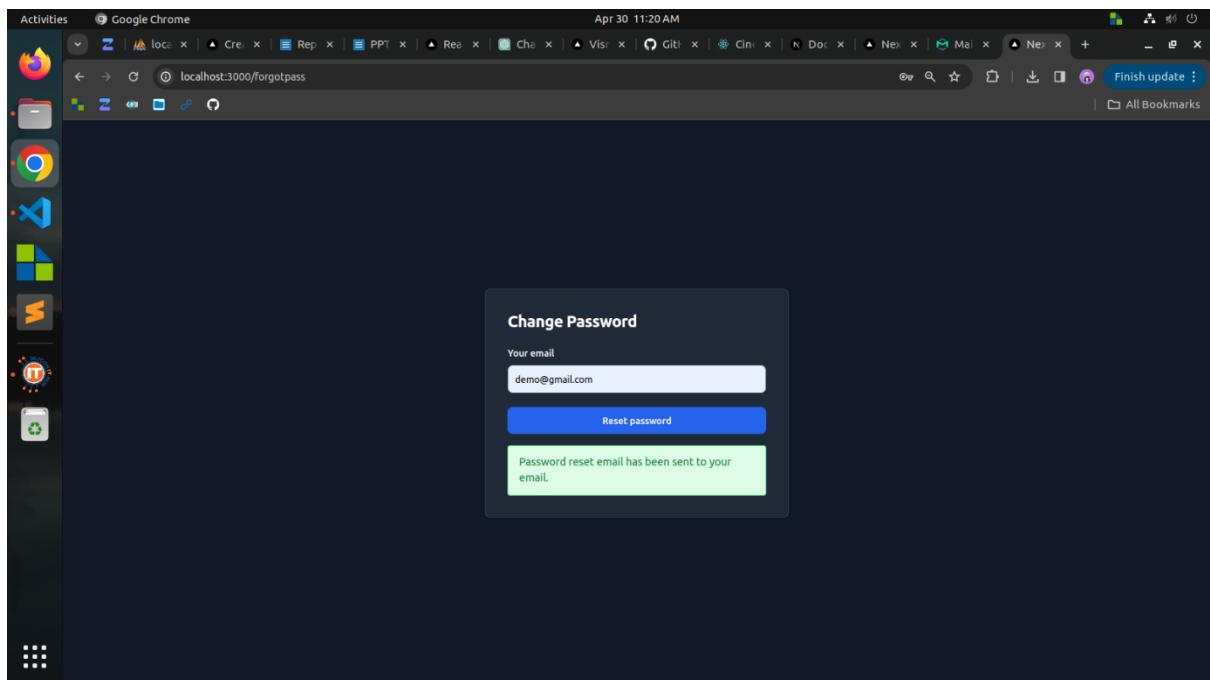
Week 15's focus on mastering authentication, integrating MongoDB, and advancing Next.js skills marks significant progress in my web development journey, empowering me to build secure and efficient applications.

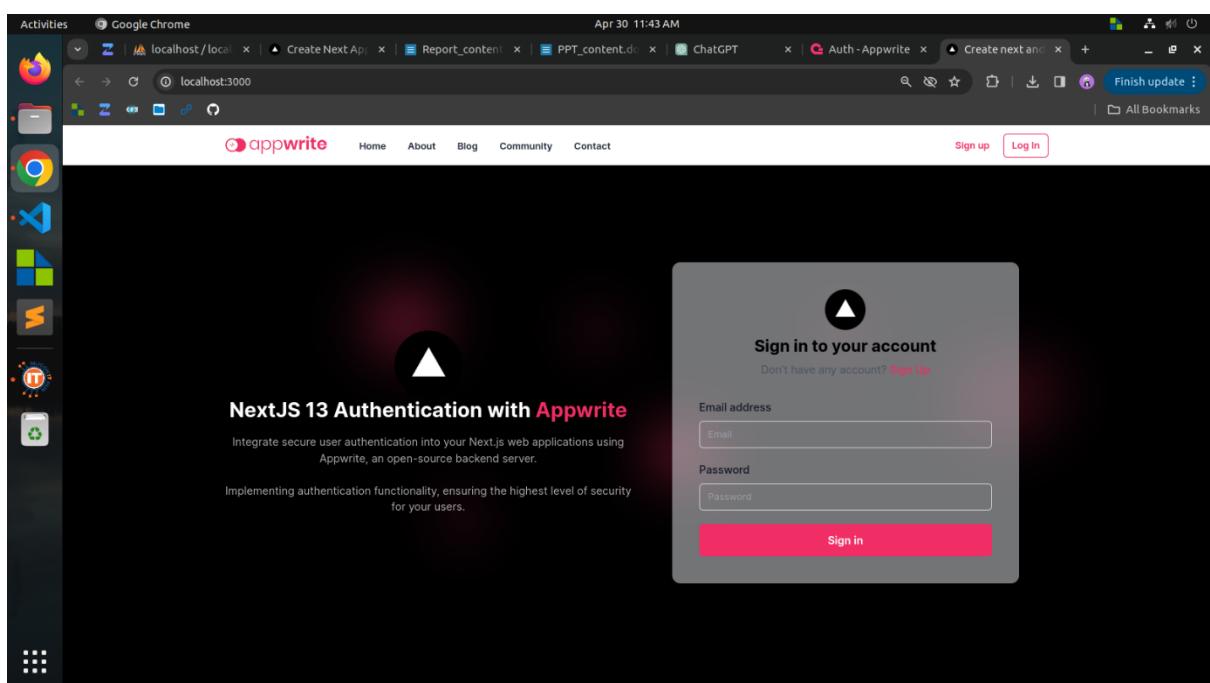
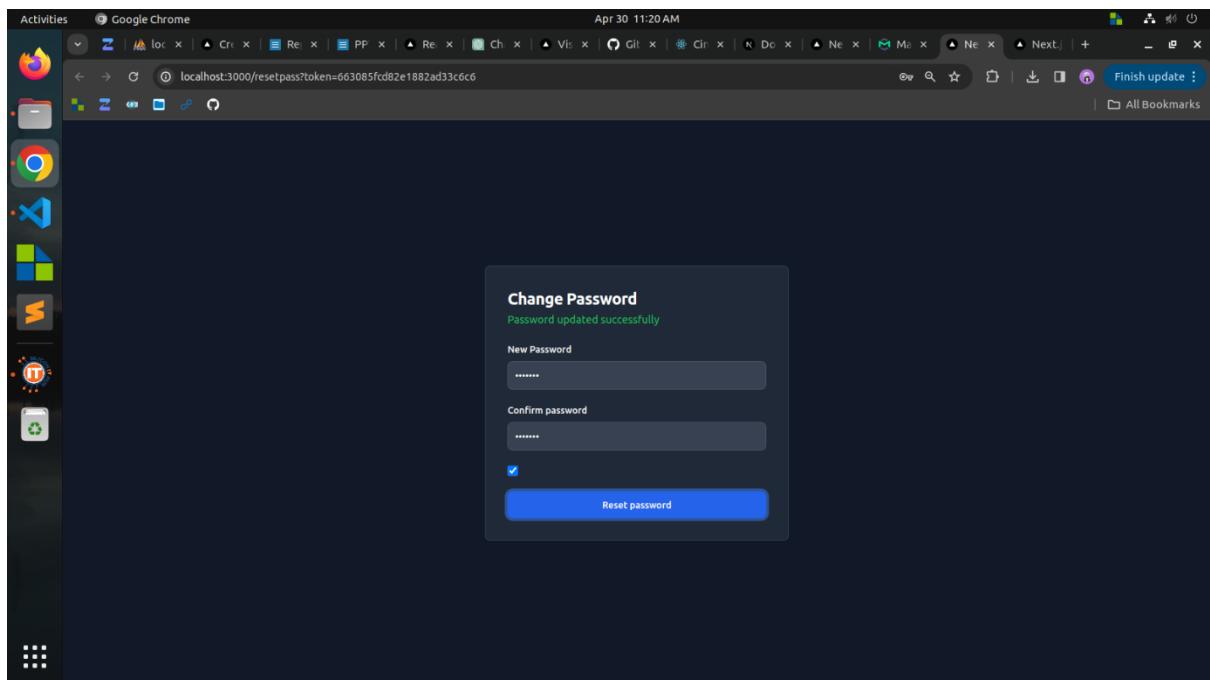
Screen shots:

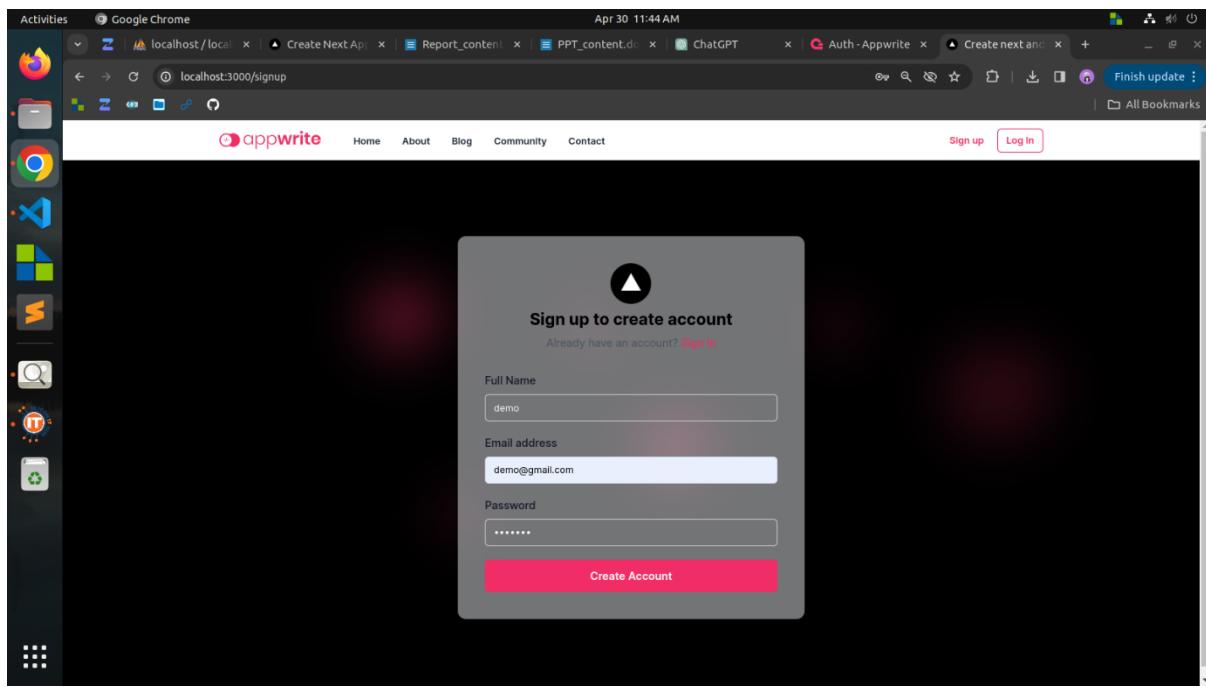












The screenshot shows a Google Chrome browser window with the title bar "Activities" and "Google Chrome". The URL in the address bar is "cloud.appwrite.io/console/project-660cd88bae60b0b43934/auth". The page content is the Appwrite cloud console, specifically the Auth section. On the left, there is a sidebar with navigation links: Overview, Auth (which is selected and highlighted in blue), Databases, Functions, Messaging, and Storage. The main area is titled "Auth". Below it, there are tabs for Users, Teams, Security, Templates, Usage, and Settings. The "Users" tab is active. It shows a table of users with the following data:

NAME	IDENTIFIERS	STATUS	ID	LABELS	JOINED	LAST ACTIVITY
demo	demo@gmail.com	unverified	User ID		Apr 30, 2024, 11:45	Apr 30, 2024
test9	test9@gmail.com	verified email	User ID		Apr 3, 2024, 14:51	Apr 3, 2024
test4	test4@gmail.com	unverified	User ID		Apr 3, 2024, 14:39	Apr 3, 2024
vismay	vishmaypatel2573@...	verified email	User ID		Apr 3, 2024, 13:05	Apr 10, 2024

The browser's toolbar at the top includes "Upgrade", "Feedback", "Support", and a user profile icon for "vismay".

Week 16

Objective:

In Week 16, TechTonic was built using Next.js and PHPMyAdmin. It features user registration and verification, with admin and regular user roles. Dashboards are tailored for each role, including functionalities for creating, viewing, and reacting to blogs. Users have dynamic profiles and personalized navigation bars. Admins can edit posts and view reactions.

Accomplishments:

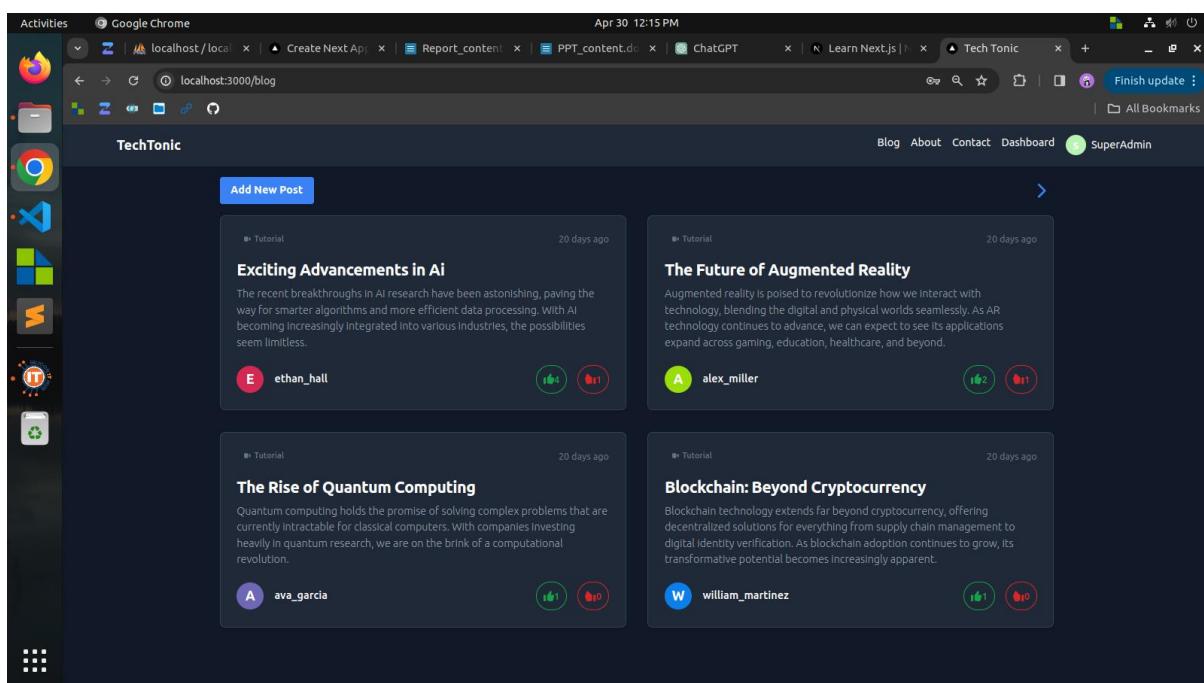
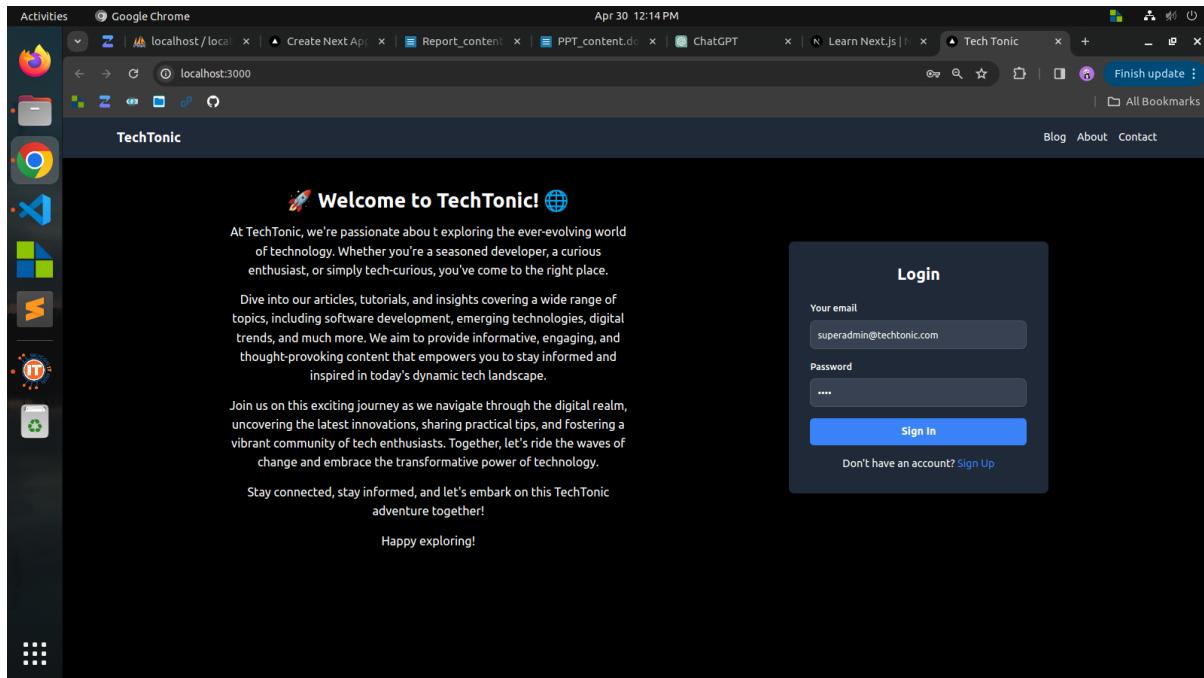
TechTonic Blog Site Development:

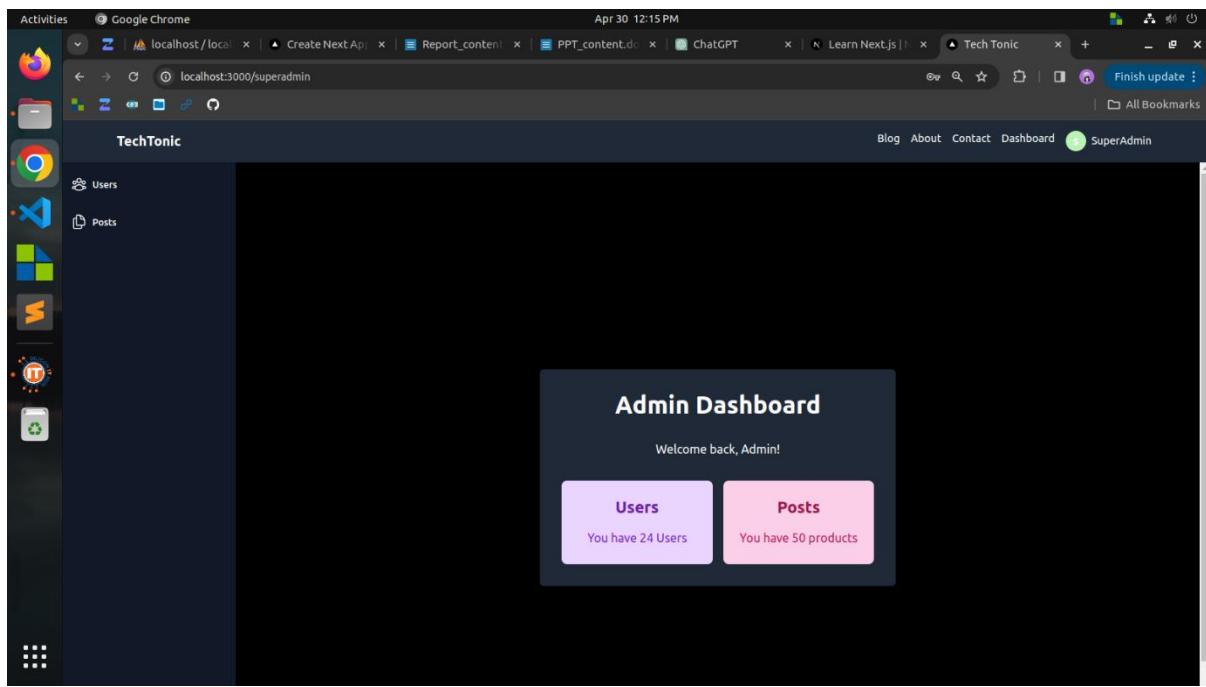
- Developed the TechTonic blog site using Next.js for frontend development and PHPMyAdmin for database management.
- Implemented user authentication functionalities, including login and signup features. User verification was required before accessing the site.
- Created various user roles, including admin and regular user, with separate dashboards tailored to their specific needs and permissions.
- Designed the main page to display blogs dynamically, allowing users to create and view posts. Users could also add reactions to posts.
- Implemented dynamic user profiles, ensuring each user had a personalized experience based on their preferences and activity.
- Configured the navigation bar to adapt to the user's role, displaying different options and functionalities accordingly.
- Provided admin users with additional capabilities such as editing their posts and viewing reactions from other users.
- Included about and contact pages to provide additional information about the site and facilitate communication with users.
- Granted superadmin access to oversee and manage all aspects of the site's functionality and content.

Conclusion:

Week 16 achieved the launch of TechTonic, a dynamic blog platform enabling content creation, sharing, and interaction. Its user authentication, role-based access, and personalized dashboards ensure an engaging experience, with ongoing efforts to enhance its value.

Screen shots:





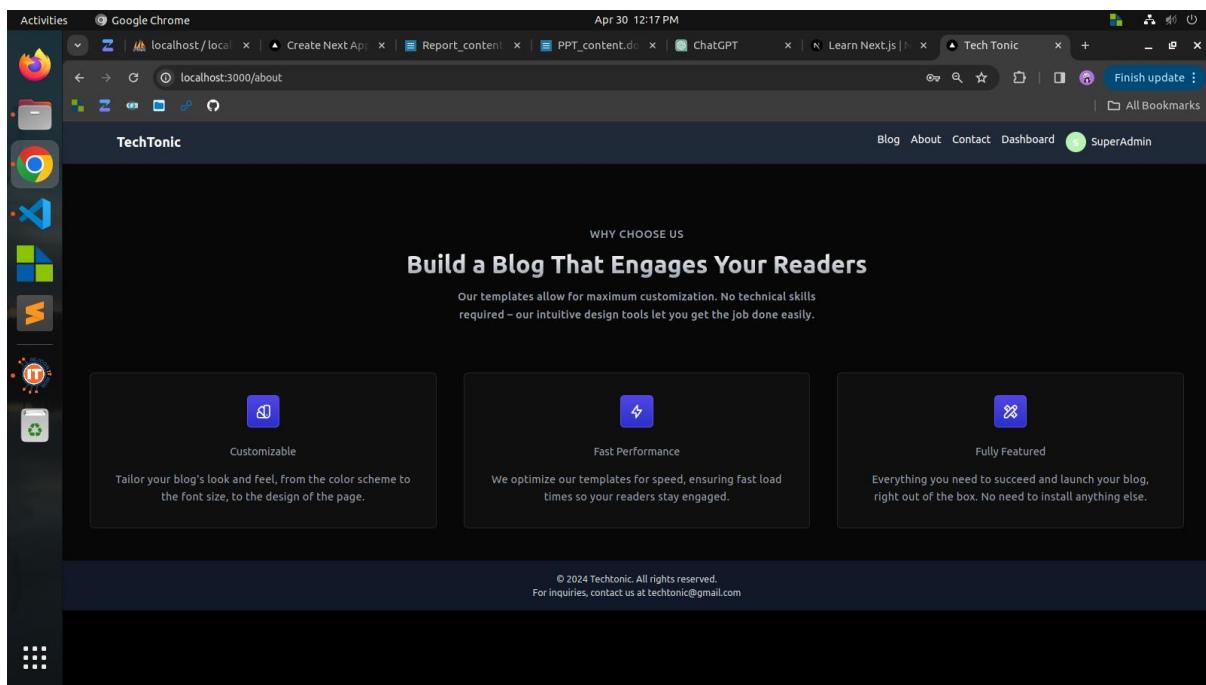
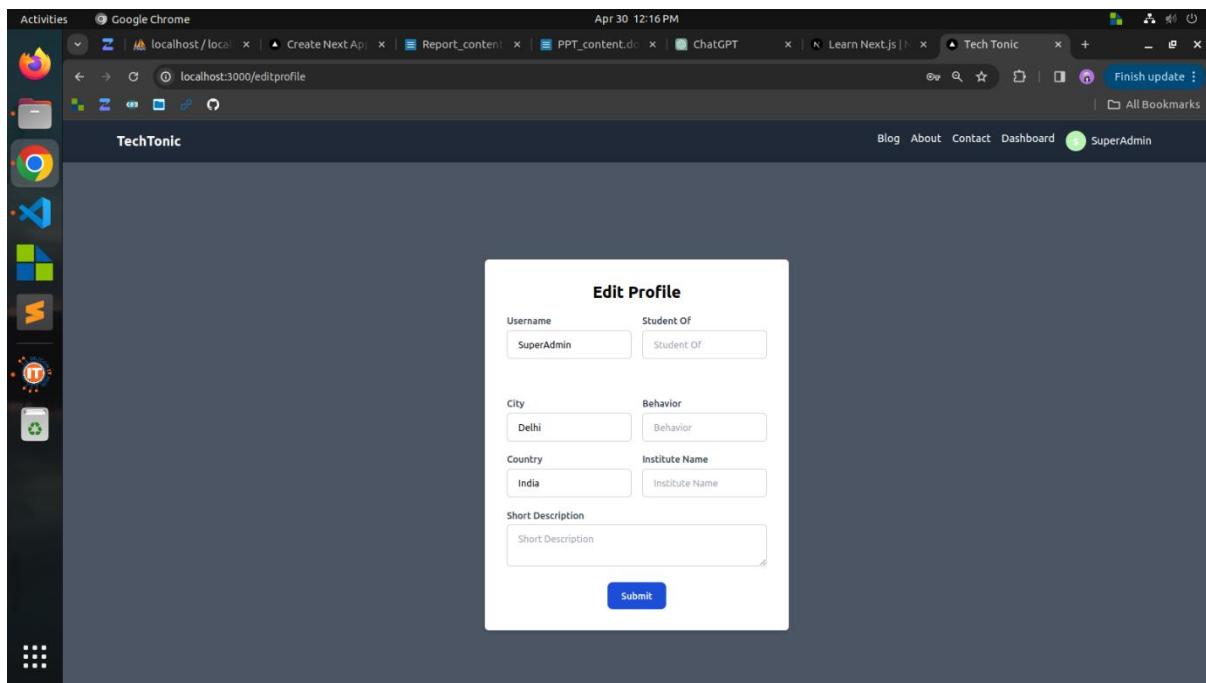
#	Username	UserRole	is_Verified	Change User Role	Verify user	Remove user
1	virat	admin	0	<button>Make User</button>	<button>Verify User</button>	<button>Delete</button>
2	SuperAdmin	superadmin	1	<button>Super Admin</button>	<button>Restrict User</button>	<button>Delete</button>
4	test	admin	1	<button>Make User</button>	<button>Restrict User</button>	<button>Delete</button>
5	john_doe	admin	1	<button>Make User</button>	<button>Restrict User</button>	<button>Delete</button>
6	jane_smith	user	0	<button>Make Admin</button>	<button>Verify User</button>	<button>Delete</button>
7	alex_miller	user	0	<button>Make Admin</button>	<button>Verify User</button>	<button>Delete</button>
8	emma_jones	user	0	<button>Make Admin</button>	<button>Verify User</button>	<button>Delete</button>
9	michael_brown	user	0	<button>Make Admin</button>	<button>Verify User</button>	<button>Delete</button>
10	sarah_taylor	user	0	<button>Make Admin</button>	<button>Verify User</button>	<button>Delete</button>

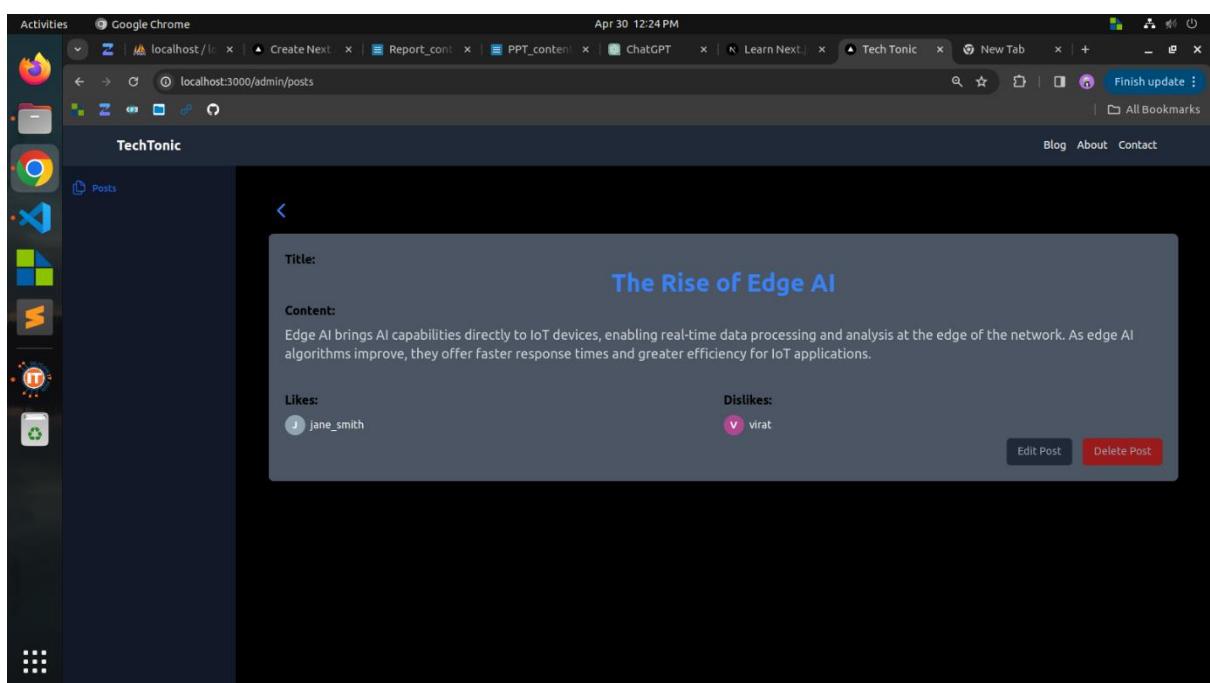
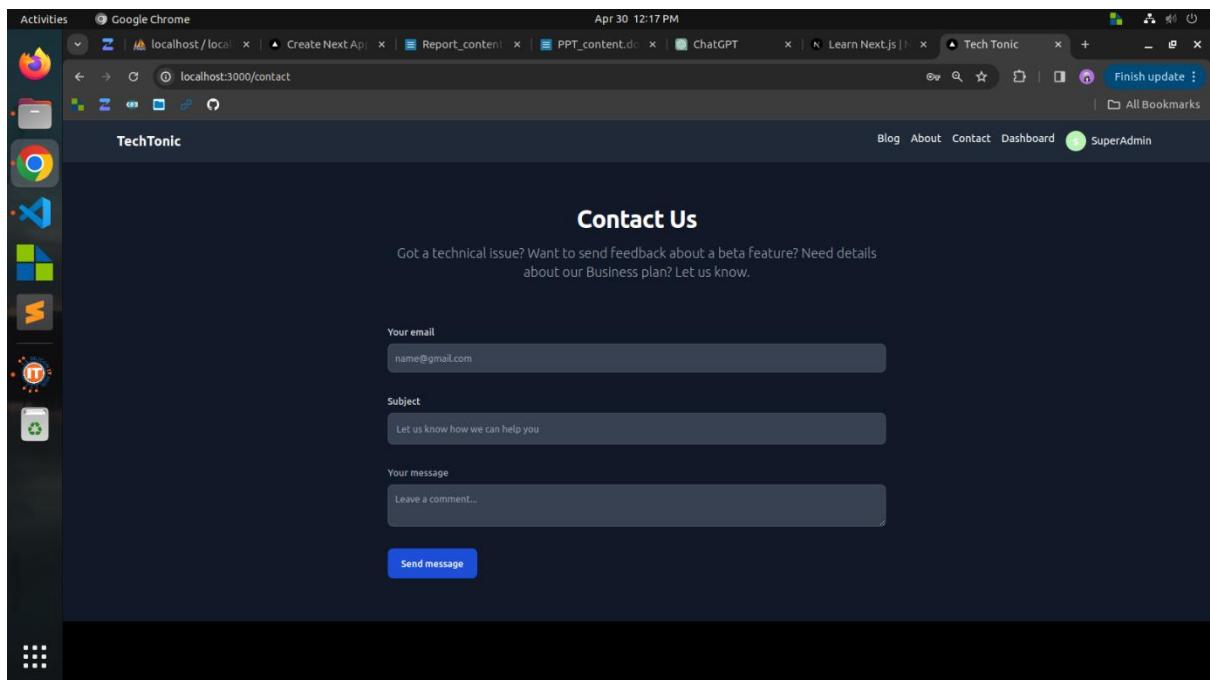
The screenshot shows a dark-themed web application interface. On the left, there's a sidebar with various icons for different applications like Google Chrome, ChatGPT, and PPT content. The main header says "TechTonic" and has navigation links for Blog, About, Contact, Dashboard, and a SuperAdmin profile. The dashboard itself displays a table of posts with columns for ID, Title, Author ID, and a "Remove post" button. The posts listed are as follows:

#	Title	Author_Id	Remove post
1	Exciting Advancements in AI	24	Delete
2	The Future of Augmented Reality	7	Delete
3	The Rise of Quantum Computing	16	Delete
4	Blockchain: Beyond Cryptocurrency	17	Delete
5	The Evolution of 5G Technology	10	Delete
6	The Future of Space Exploration	18	Delete
7	The Impact of Big Data Analytics	13	Delete
8	The Role of Cybersecurity in the Digital Age	7	Delete
9	The Promise of Self-Driving Cars	10	Delete
10	The Revolution of Biotechnology	5	Delete
11	The Future of Wearable Technology	10	Delete

A pagination bar at the bottom indicates page 1 of 5.

A screenshot of a web browser showing a Next.js application profile page for 'viratkohli'. The page features a large circular profile picture with a purple background and a white 'V' in the center. Below the picture are three social metrics: 72 Friends, 49 Photos, and 141 Comments. The user's name, 'viratkohli', is displayed in bold, with 'DEHLI, INDIA' and 'Professional Cricketer - Aggressive Player' below it. A bio states: 'Virat Kohli is one of the greatest cricketers of all time, known for his aggressive batting style and exceptional leadership skills. Born and brought up in Delhi, India, Kohli made his international debut in 2008 and quickly rose to prominence with his consistent performances. As the captain of the Indian cricket team, he has led the team to numerous victories across all formats of the game.' At the bottom are two buttons: 'Edit Profile' (blue) and 'Logout' (red).





Week 17

Objective:

In the final week, the aim was to develop a succinct school management system with an admin dashboard, integrating student/teacher management, certificate generation, library, class, fees, transportation, and attendance tracking, streamlining tasks such as updating details, issuing books, generating certificates, taking attendance, managing classes, assigning teachers, and handling transportation logistics.

Accomplishments:

Student and Teacher Management:

- Implemented functionalities to add, update, and manage student and teacher details within the system.
- Created forms and interfaces for inputting and editing information such as personal details, contact information, and academic records.

Bonafide Certificate Generation:

- Developed a feature to generate bonafide certificates for students, incorporating relevant student information and allowing for customization of certificate templates.

Library Management:

- Designed a module for library management, enabling the issuance and return of books to students and tracking library inventory.

Class and Fees Management:

- Implemented features to store and manage class details, including class schedules, subjects, and assigned teachers.
- Developed functionalities to track and manage student fees, including fee payment records and overdue fee notifications.

Transportation Management:

- Created a module for transportation management, allowing for the storage of transportation details for students, including bus routes, stops, and schedules.

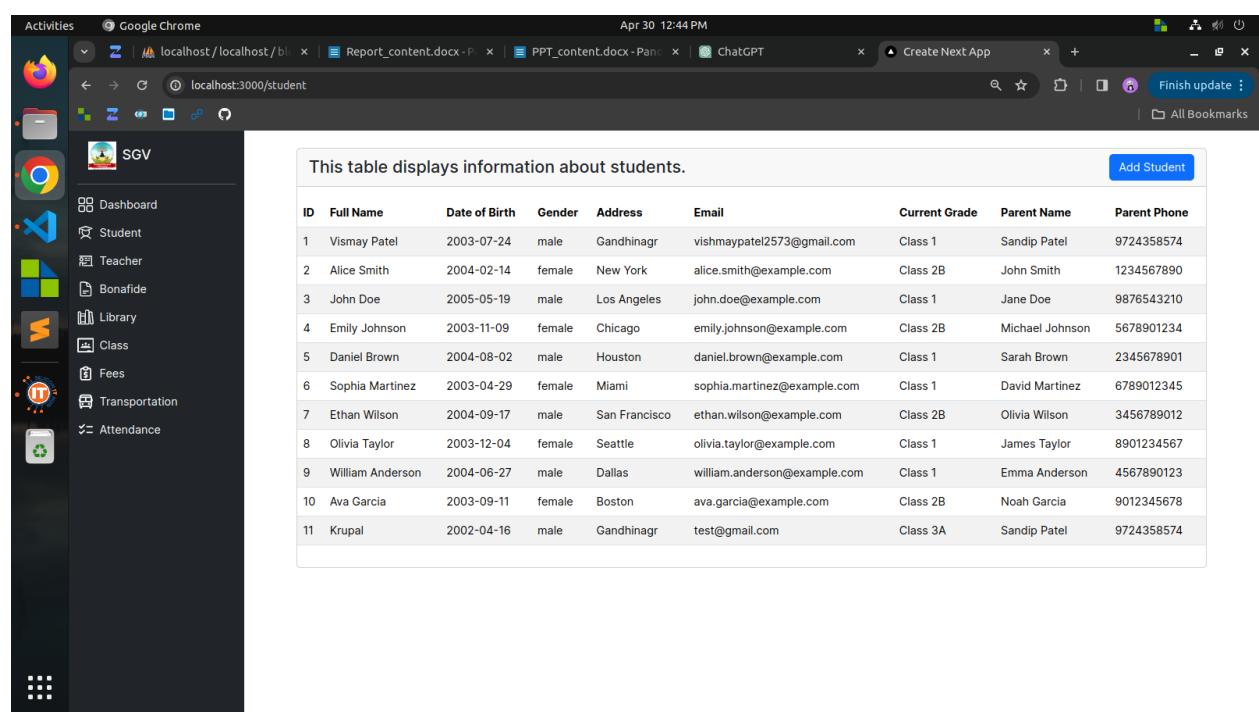
Attendance Tracking:

- Developed functionality to take and track student attendance, providing insights into student attendance patterns and trends.

Conclusion:

In the final week of my internship, I successfully developed a comprehensive school management system encompassing various modules crucial for efficient school administration. The system facilitates tasks related to student and teacher management, library management, class and fees management, transportation management, and attendance tracking. The development of this system marks the culmination of my internship experience, showcasing my ability to design and implement complex software solutions tailored to specific organizational needs. Moving forward, I am confident in my ability to leverage the skills and knowledge gained during this internship to contribute effectively to future projects and endeavors in the field of software development.

Screen shots:



The screenshot shows a web browser window titled 'localhost:3000/student' with a timestamp of 'Apr 30 12:44 PM'. The browser has multiple tabs open, including 'Report_content.docx - F', 'PPT_content.docx - Panc', and 'ChatGPT'. The main content area displays a table titled 'This table displays information about students.' with 11 rows of data. The table includes columns for ID, Full Name, Date of Birth, Gender, Address, Email, Current Grade, Parent Name, and Parent Phone. An 'Add Student' button is located at the top right of the table. The left side of the screen shows a dark-themed desktop environment with a sidebar containing icons for Dashboard, Student, Teacher, Bonafide, Library, Class, Fees, Transportation, and Attendance. A 'SGV' icon is also present in the sidebar.

ID	Full Name	Date of Birth	Gender	Address	Email	Current Grade	Parent Name	Parent Phone
1	Vismay Patel	2003-07-24	male	Gandhinagar	vishmays Patel2573@gmail.com	Class 1	Sandip Patel	9724358574
2	Alice Smith	2004-02-14	female	New York	alice.smith@example.com	Class 2B	John Smith	1234567890
3	John Doe	2005-05-19	male	Los Angeles	john.doe@example.com	Class 1	Jane Doe	9876543210
4	Emily Johnson	2003-11-09	female	Chicago	emily.johnson@example.com	Class 2B	Michael Johnson	5678901234
5	Daniel Brown	2004-08-02	male	Houston	daniel.brown@example.com	Class 1	Sarah Brown	2345678901
6	Sophia Martinez	2003-04-29	female	Miami	sophia.martinez@example.com	Class 1	David Martinez	6789012345
7	Ethan Wilson	2004-09-17	male	San Francisco	ethan.wilson@example.com	Class 2B	Olivia Wilson	3456789012
8	Olivia Taylor	2003-12-04	female	Seattle	olivia.taylor@example.com	Class 1	James Taylor	8901234567
9	William Anderson	2004-06-27	male	Dallas	william.anderson@example.com	Class 1	Emma Anderson	4567890123
10	Ava Garcia	2003-09-11	female	Boston	ava.garcia@example.com	Class 2B	Noah Garcia	9012345678
11	Krupal	2002-04-16	male	Gandhinagar	test@gmail.com	Class 3A	Sandip Patel	9724358574

Activities Google Chrome Apr 30 12:45 PM

localhost:3000/addstudent

Student / Add Student

Full Name

Date of Birth
 dd/mm/yyyy

Gender
 Select Gender

Address

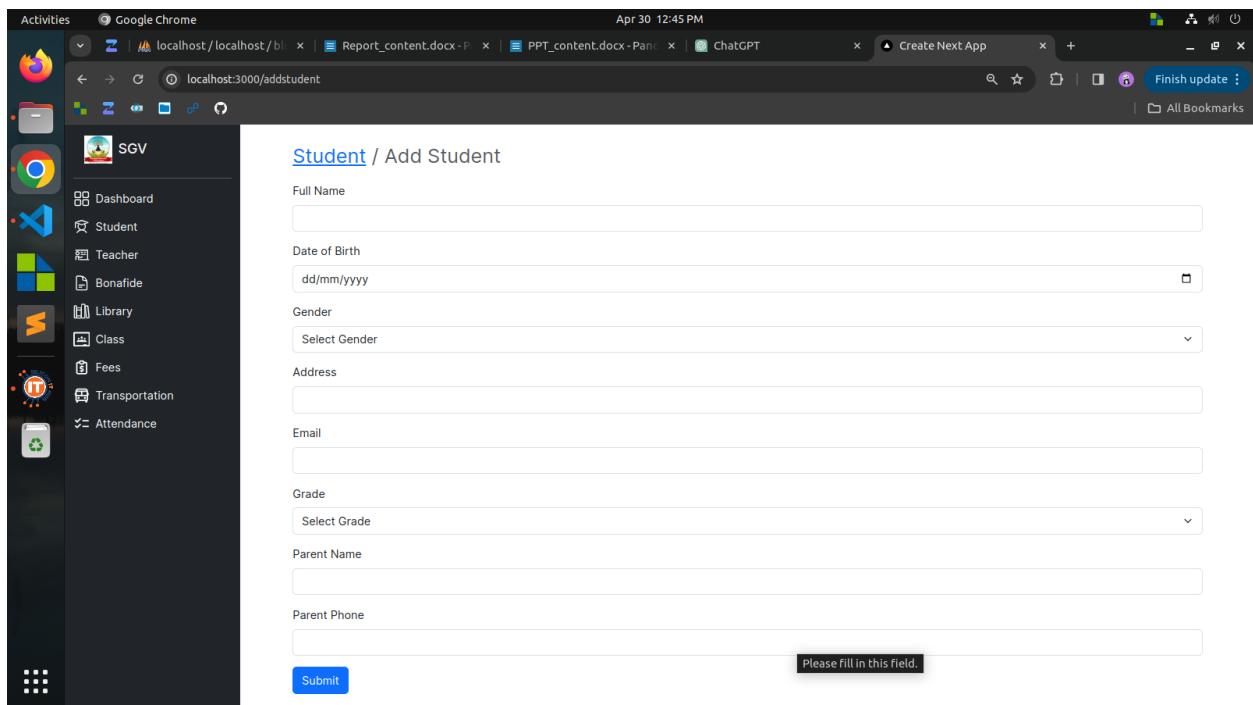
Email

Grade
 Select Grade

Parent Name

Parent Phone

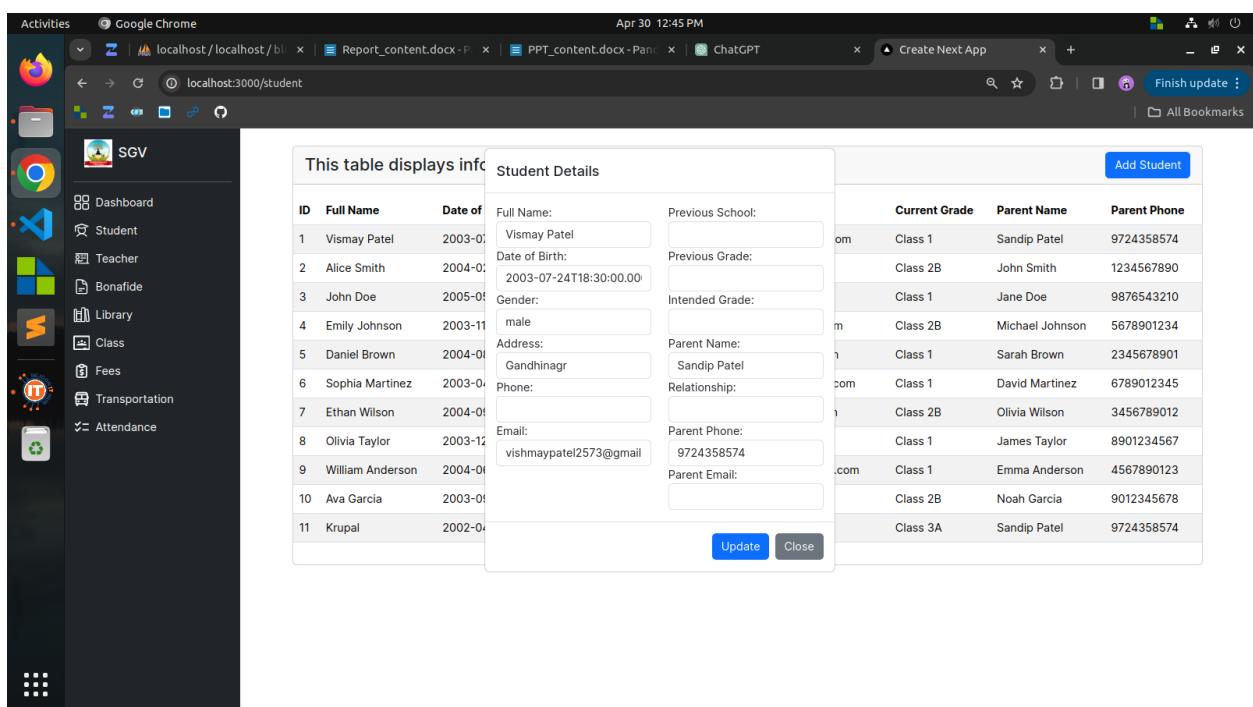
Please fill in this field.



Activities Google Chrome Apr 30 12:45 PM

localhost:3000/student

This table displays info			Student Details			Add Student		
ID	Full Name	Date of Birth	Full Name:	Previous School:	Current Grade	Parent Name	Parent Phone	
1	Vismay Patel	2003-07-24T18:30:00.000Z	Vismay Patel		Class 1	Sandip Patel	9724358574	
2	Alice Smith	2004-07-24T18:30:00.000Z		Previous Grade:	Class 2B	John Smith	1234567890	
3	John Doe	2005-07-24T18:30:00.000Z	Date of Birth:	Intended Grade:	Class 1	Jane Doe	9876543210	
4	Emily Johnson	2003-11-24T18:30:00.000Z	Gender:	Parent Name:	Class 2B	Michael Johnson	5678901234	
5	Daniel Brown	2004-07-24T18:30:00.000Z	male	Address:	Class 1	Sarah Brown	2345678901	
6	Sophia Martinez	2003-07-24T18:30:00.000Z	Gandhinagar	Phone:	Class 2B	David Martinez	6789012345	
7	Ethan Wilson	2004-07-24T18:30:00.000Z		Email:	Class 1	Olivia Wilson	3456789012	
8	Olivia Taylor	2003-12-24T18:30:00.000Z	vishmaypatel2573@gmail.com	Parent Phone:	Class 2B	James Taylor	8901234567	
9	William Anderson	2004-07-24T18:30:00.000Z		Parent Email:	Class 1	Emma Anderson	4567890123	
10	Ava Garcia	2003-07-24T18:30:00.000Z			Class 2B	Noah Garcia	9012345678	
11	Krupal	2002-07-24T18:30:00.000Z			Class 3A	Sandip Patel	9724358574	



Activities Google Chrome Apr 30 12:45 PM

ID	Full Name	Gender	Email	Phone	Address	Subject	Salary	Hire Date	Status	ClassID
1	Ms. Smith	female	ms.smith@example.com	1234567890	Address 1	English	50000	2024-03-31T18:30:00.000Z	assigned	25
2	Mr. Johnson	male	mr.johnson@example.com	9876543210	Address 2	Mathematics	55000	2024-03-31T18:30:00.000Z	assigned	26
3	Mrs. Martinez	female	mrs.martinez@example.com	2345678901	Address 3	Science	52000	2024-03-31T18:30:00.000Z	assigned	27
4	Mr. Lee	male	mr.lee@example.com	8765432109	Address 4	History	48000	2024-03-31T18:30:00.000Z	free	
5	Ms. Wilson	female	ms.wilson@example.com	3456789012	Address 5	Art	49000	2024-03-31T18:30:00.000Z	free	
7	Mrs. Taylor	female	mrs.taylor@example.com	4567890123	Address 7	Music	49000	2024-03-31T18:30:00.000Z	assigned	28
8	Mr. Garcia	male	mr.garcia@example.com	6543210987	Address 8	Geography	50000	2024-03-31T18:30:00.000Z	free	
9	Ms. Clark	female	ms.clark@example.com	5678901234	Address 9	Computer Science	53000	2024-03-31T18:30:00.000Z	free	
10	Mr. Rodriguez	male	mr.rodriguez@example.com	5432109876	Address 10	Foreign Language	51000	2024-03-31T18:30:00.000Z	free	

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Generate Bonafide Certificate

Student's Full Name

Date of Birth
dd/mm/yyyy

Institution Name

Course/Program Name

Start Date of Enrollment
dd/mm/yyyy

Purpose

Preview Certificate

Activities Google Chrome Apr 30 12:47 PM

This table displays information about library.

ID	Book Name	Author Name	Status	StudentName	Issue Date	Return Date	Actions
1	To Kill a Mockingbird	Harper Lee	Checked Out	Alice Smith	2024-04-29	2024-05-07	<button>Return</button>
2	1984	George Orwell	Available	N/A	N/A	N/A	<button>Issue</button>
3	Pride and Prejudice	Jane Austen	Available	N/A	N/A	N/A	<button>Issue</button>
4	The Great Gatsby	F. Scott Fitzgerald	Available	N/A	N/A	N/A	<button>Issue</button>
5	The Catcher in the Rye	J.D. Salinger	Available	N/A	N/A	N/A	<button>Issue</button>
6	The Hobbit	J.R.R. Tolkien	Available	N/A	N/A	N/A	<button>Issue</button>
7	To the Lighthouse	Virginia Woolf	Available	N/A	N/A	N/A	<button>Issue</button>
8	One Hundred Years of Solitude	Gabriel García Márquez	Available	N/A	N/A	N/A	<button>Issue</button>
9	Moby-Dick	Herman Melville	Available	N/A	N/A	N/A	<button>Issue</button>
10	The Brothers Karamazov	Fyodor Dostoevsky	Available	N/A	N/A	N/A	<button>Issue</button>

Activities Google Chrome Apr 30 12:47 PM

This table displays information about library.

ID	Book Name	Author Name	Status	StudentName	Issue Date	Return Date	Actions
1	To Kill a Mockingbird	Harper Lee	Checked Out	Alice Smith	2024-04-29	2024-05-07	<button>Return</button>
2	1984	George Orwell	Available	N/A	N/A	N/A	<button>Issue</button>
3	Pride and Prejudice	Jane Austen	Available	N/A	N/A	N/A	<button>Issue</button>
4	The Great Gatsby	F. Scott Fitzgerald	Available	N/A	N/A	N/A	<button>Issue</button>
5	The Catcher in the Rye	J.D. Salinger	Available	N/A	N/A	N/A	<button>Issue</button>
6	The Hobbit	J.R.R. Tolkien	Available	N/A	N/A	N/A	<button>Issue</button>
7	To the Lighthouse	Virginia Woolf	Available	N/A	N/A	N/A	<button>Issue</button>
8	One Hundred Years of Solitude	Gabriel García Márquez	Available	N/A	N/A	N/A	<button>Issue</button>
9	Moby-Dick	Herman Melville	Available	N/A	N/A	N/A	<button>Issue</button>
10	The Brothers Karamazov	Fyodor Dostoevsky	Available	N/A	N/A	N/A	<button>Issue</button>

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This table displays information about class.

ID	ClassName	GradeLevel	ClassTeacher	NumberOfStudents	RoomLocation	Fees	Edit	Delete
25	Class 1	1	Ms. Smith	6	101	15000	<button>Edit</button>	<button>Delete</button>
26	Class 2B	2	Mr. Johnson	4	212	17000	<button>Edit</button>	<button>Delete</button>
27	Class 3A	3	Mrs. Martinez	1	309	20000	<button>Edit</button>	<button>Delete</button>
28	Class 4A	4	Mrs. Taylor	0	203	25000	<button>Edit</button>	<button>Delete</button>

Add Class

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Classes / Add Class

Class Name

Grade Level

Class Teacher Select Class Teacher

Room Location

Fees

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This table displays information about student's fees.

ID	Full Name	Current Grade	Current Grade Fees	Paid	Remaining
1	Vismay Patel	Class 1	15000	14000	1000
2	Alice Smith	Class 2B	17000	1000	16000
3	John Doe	Class 1	15000	10000	5000
4	Emily Johnson	Class 2B	17000	0	17000
5	Daniel Brown	Class 1	15000	0	15000
6	Sophia Martinez	Class 1	15000	0	15000
7	Ethan Wilson	Class 2B	17000	0	17000
8	Olivia Taylor	Class 1	15000	0	15000
9	William Anderson	Class 1	15000	0	15000
10	Ava Garcia	Class 2B	17000	0	17000
11	Krupal	Class 3A	20000	0	20000

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[Payment Details](#) / Add Payment Details

Student Name

Amount

Payment Date

This screenshot shows a web browser window titled "localhost:3000/transportation". The page displays a table of student route details. A sidebar on the left is titled "SGV" and contains links for Dashboard, Student, Teacher, Bonafide, Library, Class, Fees, Transportation, and Attendance. The main content area shows the following table:

ID	Student Name	Route Name	Pick-up Point	Driver Name	Driver Number	Vehicle Number	Vehicle Name
1	Vismay Patel	Gota-Sarkhej	Thaltej	John Doe	1234567890	V001	Toyota Camry
3	John Doe	Chandkheda-Vastral	Sola Road	Emily Davis	4567890123	V004	Chevrolet Tahoe

A blue button labeled "Add Student Route Details" is located in the top right corner of the table area.

This screenshot shows a web browser window titled "localhost:3000/addroute". The page displays a form for adding transportation details. The sidebar on the left is titled "SGV" and contains links for Dashboard, Student, Teacher, Bonafide, Library, Class, Fees, Transportation, and Attendance. The main content area shows the following form:

Transportation / Add details

Student Name	Route Name
<input type="text" value="Vismay Patel"/>	<input type="text" value="Gota-Sarkhej"/>
Pick-up Point	
<input type="text" value="Pakwan Cross Roads"/>	
<input type="button" value="Register"/>	

The screenshot shows a web application interface for managing student attendance. On the left, there is a sidebar with various icons and a list of activities. The main content area has a header "Class Names" and a button "Take Teacher Attendance". Below this, there are four input fields for "Class 1", "Class 2B", "Class 3A", and "Class 4A". A modal window titled "Attendance for 20" is open, showing "Student Attendance" and "Attendance" tables. The "Student Attendance" table lists students from 1 to 10 with their names and status (Absent or Present). The "Attendance" table lists staff members with their names and status (Present or Absent). A "Select Students for Class 1 on 2024-04-30" dropdown menu is also visible.

#	Name	Status
1	Vismay Patel	Absent
2	Alice Smith	Absent
3	John Doe	Present
4	Emily Johnson	Absent
5	Daniel Brown	Absent
6	Sophia Martinez	Absent
7	Ethan Wilson	Absent
8	Olivia Taylor	Absent
9	William Anderson	Absent
10	Ava Garcia	Absent

Name	Status
Ms. Smith	Present
Mr. Johnson	Absent
Mrs. Martinez	Absent
Mr. Lee	Present
Ms. Wilson	Absent
Mrs. Taylor	Absent
Mr. Garcia	Absent
Ms. Clark	Absent
Mr. Rodriguez	Present

The screenshot shows a web application interface for managing student and teacher attendance. The layout is similar to the previous one, with a sidebar on the left and a main content area. The main content area has a header "Class Names" and a button "Take Teacher Attendance". Below this, there are four input fields for "Class 1", "Class 2B", "Class 3A", and "Class 4A". A modal window titled "Attendance for 2024-04-30" is open, showing "Student Attendance" and "Teacher Attendance" tables. The "Student Attendance" table lists students from 1 to 11 with their names and status (Absent or Present). The "Teacher Attendance" table lists staff members with their names and status (Present or Absent).

#	Name	Status
1	Vismay Patel	Present
2	Alice Smith	Absent
3	John Doe	Present
4	Emily Johnson	Absent
5	Daniel Brown	Present
6	Sophia Martinez	Present
7	Ethan Wilson	Absent
8	Olivia Taylor	Absent
9	William Anderson	Absent
10	Ava Garcia	Absent
11	Krupal	Present

#	Name	Status
1	Ms. Smith	Present
2	Mr. Johnson	Absent
3	Mrs. Martinez	Absent
4	Mr. Lee	Present
5	Ms. Wilson	Absent
7	Mrs. Taylor	Absent
8	Mr. Garcia	Absent
9	Ms. Clark	Absent
10	Mr. Rodriguez	Present