

Overview of the Practicum Engagement

Company Background

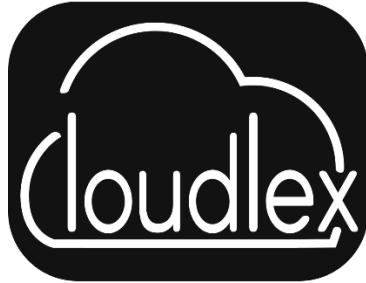


Figure 1. Cloudlex Logo

The student interned at Cloudlex Software Solutions, a prominent software development company. Cloudlex is renowned for its passionate team of developers and marketers who are dedicated to providing exceptional service at competitive rates. Located at 1592 Candida St, Pandacan, Metro Manila, Cloudlex was founded by Lex Tansiongco with a mission to enhance client satisfaction and service. Cloudlex specializes in developing software solutions tailored to the needs of buildings, hotels, apartelles, and condominiums, streamlining their operations for increased efficiency, competitiveness, value, and profitability. The company's innovative approach includes ensuring their products are compatible across various operating systems and browsers, including the latest technologies like smartphones and tablets. Cloudlex is committed to boosting operational efficiency and delivering high-quality, cross-platform software solutions, making it an invaluable asset to any business.



Figure 2. Services Offered

Cloudlex offers a comprehensive suite of services, including CMMS software, dormitory management software, payroll software, and tenancy management software (see Figure 2). Their long-standing clients include prestigious establishments such as Myplace Residence Hall, Kingscourt 1 & 2, Philippine Columbian Association, Grandview Tower, Prospect, Angelo King International Center Hotel (AKIC), School of Design and Arts (SDA), and Lasalle Taft.

Nature of Assignments or Tasks Given

During the internship, the student was assigned a variety of software development responsibilities to assess their knowledge and learning abilities. This comprehensive approach began with an initial week of intensive development and hands-on training. This training period was designed to familiarize the intern with the company's development practices and to provide a foundation for the tasks ahead. Each week concluded with a meeting on Monday, where the intern presented their progress. These meetings also featured brief training sessions and valuable insights from the supervisor, ensuring continuous learning and improvement.

The intern's main responsibilities included extensive research, active software development, and thorough documentation. Initially, the student was tasked with creating a fully functional e-commerce website by the end of the internship. However, as the internship progressed,

the project focus shifted to developing a medical tracking application for mothers, named Motherly. This pivot allowed the intern to explore a different domain and address specific challenges related to healthcare application development.

The technologies employed during the internship revolved around the MERN stack and its related packages. Key tools and libraries included Vite for rapid development, Tailwind CSS for efficient styling, React Material Table and React Grid System for frontend component management, and Express and Mongoose for backend and database operations, respectively. The intern utilized React for frontend development, leveraging its component-based architecture to create a responsive and dynamic user interface. For the backend, Node.js with Express was used to build a robust and scalable server-side application. MongoDB was chosen as the database for its flexibility and scalability.

To facilitate the development process, the intern primarily used Visual Studio Code as the Integrated Development Environment (IDE). This choice was due to its extensive range of extensions and tools that enhance productivity. Postman was employed for API testing, ensuring that the backend services were functioning correctly and efficiently. The Chromium browser was used for both development and debugging purposes, providing a reliable platform for testing the application's functionality across different scenarios.

Throughout the internship, the student demonstrated a proactive approach to learning and problem-solving. They engaged in continuous research to stay updated with the latest technologies and best practices in software development. This commitment to learning was evident in the quality of the software developed and the comprehensive documentation provided, which detailed the development process, challenges encountered, and solutions implemented.

Total Hours Rendered

In total, the student completed 344 hours during the internship. This included 8 hours dedicated to company orientation, providing a comprehensive understanding of Cloudlex's operations and culture. The intern spent 72 hours on initial training and developing demo applications, equipping them with the necessary skills and knowledge. A significant portion of time, 184 hours, was focused on the development of the Motherly application, which included 16 hours spent in weekly meetings to track progress and receive feedback. Additionally, 40 hours were allocated to documentation and testing, ensuring the application was thoroughly examined for performance and reliability. Another 40 hours were allocated to the finalization and hosting of the application, making it fully functional and accessible to users. The student successfully completed their practicum on July 5, 2024.

Table 1.0
Summary of Hours Rendered

Task	Hour Count		
	Development	Documentation	Total
Company Orientation	-	8	8
Training Lessons	-	24	24
Demo Application	44	4	48
Meetings	-	16	16
Motherly Application	184	24	208
Hosting	36	4	40
Total	264	80	344

Presentation of Output

Training Lessons and Demo Projects

Training videos were provided by Cloudlex for the interns to follow. These videos covered a range of topics, including setting up a MERN application using Create React App, setting up a MERN application using Vite, creating a dynamic navbar using React and Framer Motion, setting up MERN authentication, and a Node.js crash course.

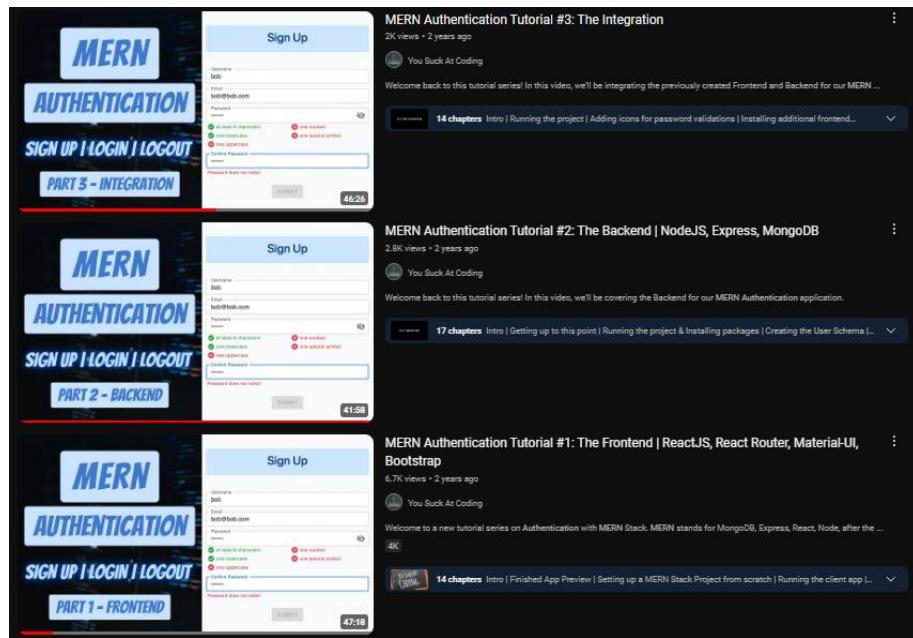


Figure 3. Banish Narang's MERN auth tutorial

Setting up a MERN application and implementing MERN authentication were structured into a series of three one-hour hands-on videos that the intern had followed (See Figure 3). These comprehensive tutorials were sourced from Banish Narang, a Senior Software Engineer at GoDaddy and the founder of [yousuckatcoding](#). Each video provided step-by-step instructions and practical demonstrations, ensuring a deep understanding of the MERN stack's setup process and

authentication implementation. This structured learning approach facilitated a hands-on experience.

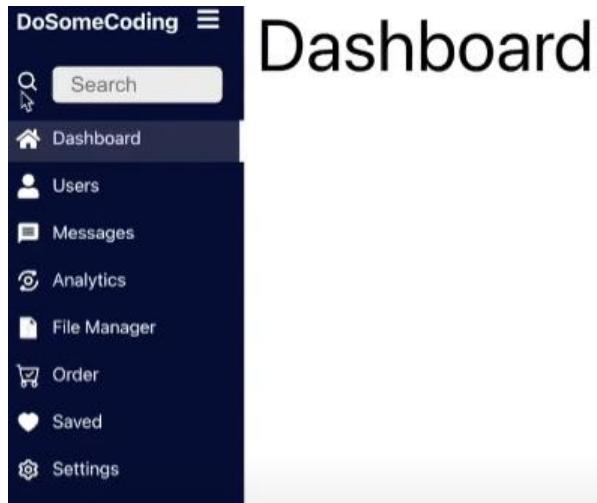


Figure 5. React Sidebar with framer motion

As part of the initial training phase at Cloudlex, creating a dynamic React navbar using Framer Motion was a key requirement for the intern. Leveraging the foundational setup from the MERN authentication tutorial, the intern also developed a React sidebar utilizing Framer Motion, a widely recognized animation framework for web-based projects (see figure 5).

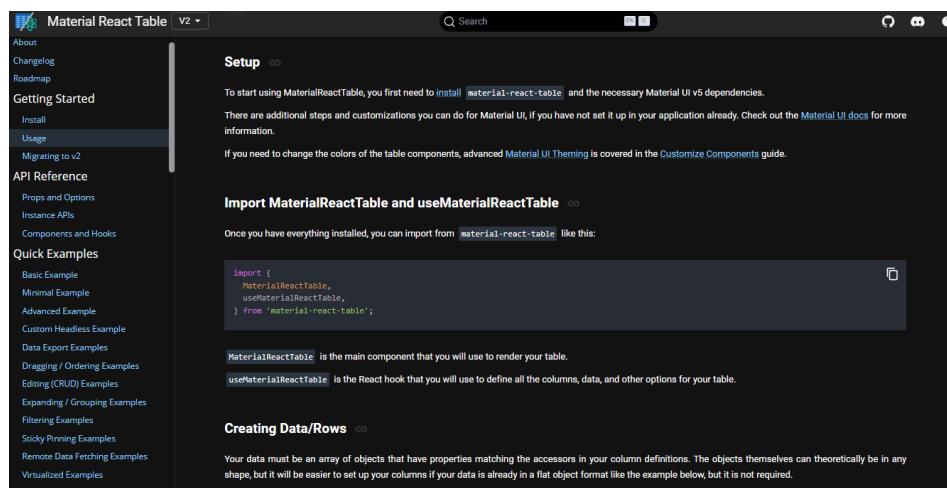


Figure 6. Material React Table Documentation

Additionally, the intern explored the Material-UI React Table documentation, which was essential for implementing administrative functionalities. The Material-UI React Table offers a comprehensive set of features including pagination, sorting, filtering, row selection, row expansion, column resizing, and column reordering, making it ideal for robust data management in applications (see figure 6).

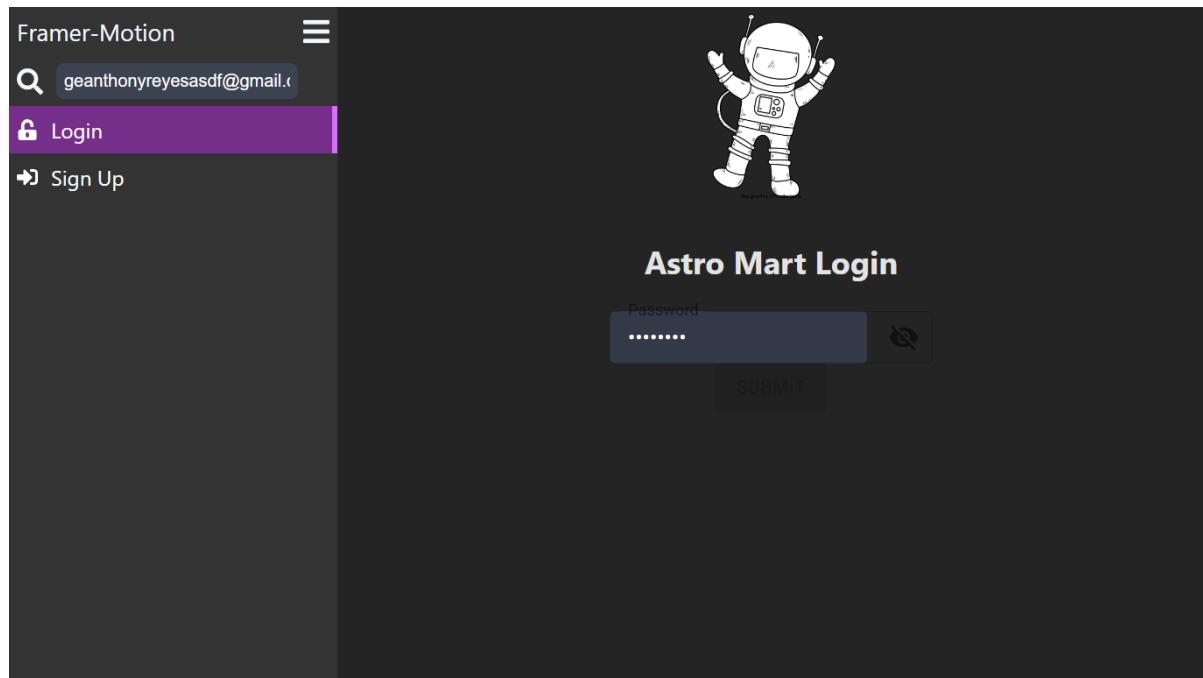


Figure 7. Authentication

The screenshot shows a user interface for a "React Material Table" demo. On the left, there is a dark sidebar with a navigation menu. The "React Material Table" item is highlighted with a purple background. The main content area features a table with the following data:

Name	Age	Sex	Address
John	30	Male	3 Termania street
Sara	25	Female	3 Random Road
Michael	28	Male	7 Oak Lane
Emily	32	Female	12 Maple Street
Daniel	35	Male	18 Elm Avenue
Sophia	27	Female	5 Pine Court
Matthew	29	Male	22 Cedar Lane
John	30	Male	3 Termania street

At the bottom, there is a pagination bar with the text "Rows per page 10 ▾ 1-10 of 27 ⏪ ⏵ ⏶ ⏷ ⏸ ⏹".

Figure 8. React Material Table Demo

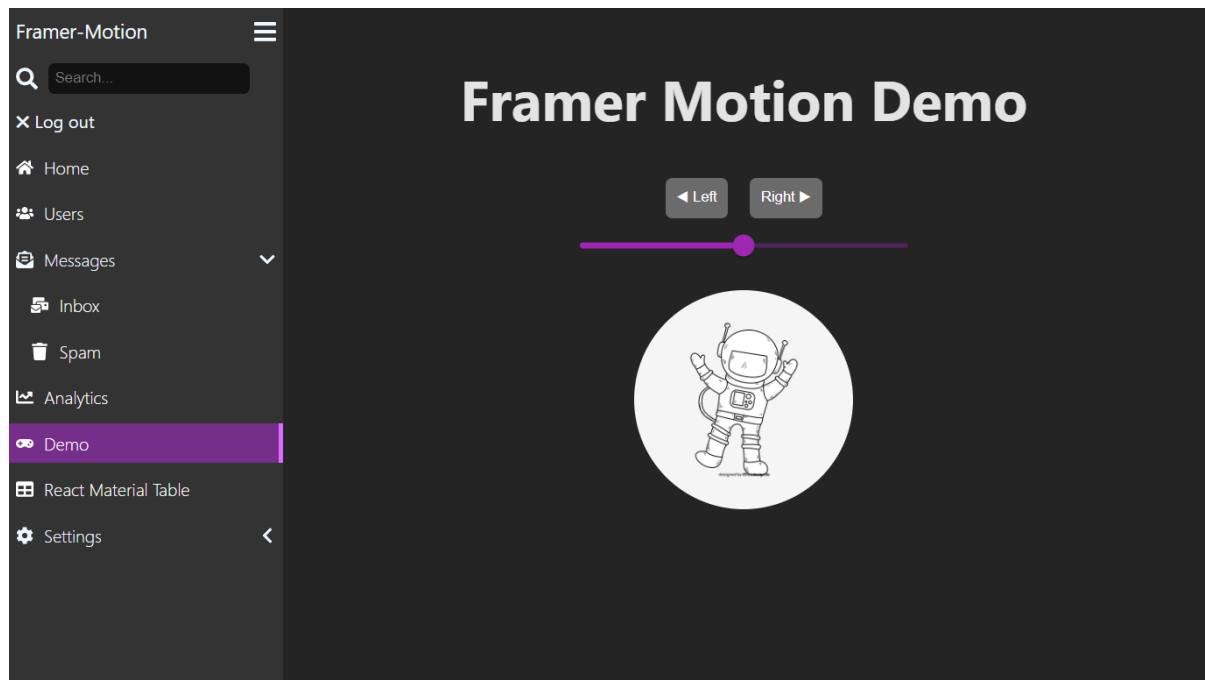


Figure 9. Framer Motion Demo

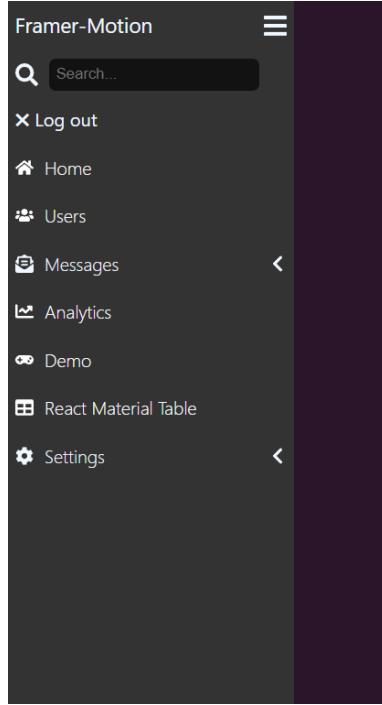


Figure 10. Dynamic Side Bar

The culmination of the training resulted in a demo project that effectively demonstrates the intern's acquired skills from the training resources provided by Cloudlex. Key features of the demo application include Node.js Authentication with JWT tokens for secure user management (see figure 7), a responsive Progressive Web App (PWA) layout for optimal user experience across devices, a dynamic Material-UI React Table for efficient data presentation and management (see figure 8), Framer Motion animations to enhance visual appeal and interactivity (see figure 9), and a dynamic sidebar that serves as a versatile component for navigation and user interface design (see figure 10). These components laid a solid foundation for the subsequent project development phases.

Motherly Application

Following the conclusion of the training phase, development of the Motherly application began promptly. The goal of this application is to streamline the management of appointments and tracking of medical records for children, targeting mothers specifically. The Motherly application comprises several key modules: authentication, profile management, children management, image upload, dashboard, and appointment scheduling. Additionally, it incorporates Progressive Web App (PWA) functionality and responsive design to enhance user experience across different devices.

The screenshot shows the 'Online Signup Application' form for the MOTHERLY platform. At the top, there is a logo and a note: 'Please complete all required information **accurately** for each item below. Leave any items that do not apply to you blank. Required items are marked with an **asterisk (*)**, so ensure these are filled out correctly.' The form is divided into sections:

- I. Personal Information**
 - 1. Name** - Pangalan:
Lastname (Apelyido) * Firstname (Pangalan) * Middle name (Gitnang Pangalan) ... Suffix/put - if no suffix
 - 2. Address** - Select region first, then province, then city.
All Regions All Provinces All Cities/Municipalities
Residence (House No./Block/Lot) * Street (Zone/Purok/Sitio) - Not required
 - 3. Birthdate** - Birthday **Age** - Edad
Age Selection Age Input
 - 4. Marital Status** - Status **5. Sex** - @ Birth
Marital Status Selection Sex Selection
 - 6. Place of Birth** - Saan Pinanganak
Place of Birth *
 - 7. Messenger Name**
Messenger Name
 - 8. Religion** - Relihyon
Religion

A large 'SUBMIT' button is located at the bottom right of the form.

Figure 11. Registration Form

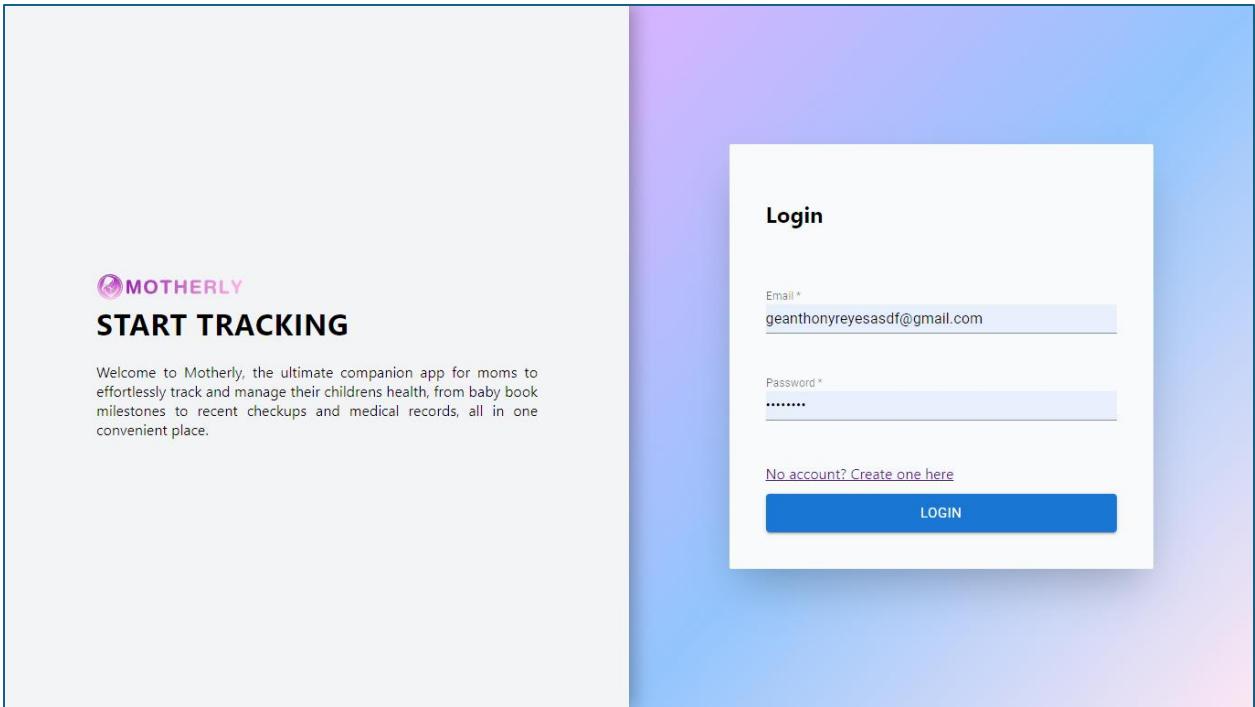


Figure 12. Signup Form

The authentication module includes two pages: the extensive registration form (see figure 11) and the signup form (see figure 12). These pages are integrated with the backend via React hooks to validate user existence and verify passwords encrypted with a 10-character salt using bcrypt hashing encryption. The large registration form is constructed using the React Grid System, ensuring it adapts seamlessly to a variety of screen sizes (see figure 13).

MOTHERLY

Please complete all required information **accurately** for each item below. Leave any items that do not apply to you blank. Required items are marked with an asterisk (*), so ensure these are filled out correctly.

Online Signup Application

I. Personal Information

1. Name - Pangalan

Lastname (Apelyido) *

Firstname (Pangalan) *

Middle name (Gitnang Pangalan) *

Suffix/put - if no suffix

2. Address - Select region first, then province, then city.

All Regions | ▾

All Provinces | ▾

All Cities/Municipalities

SUBMIT

MOTHERLY

Email *
geanthonyreyesasdf@gmail.com

Password *

No account? [Create one here](#)

LOGIN

Figure 13. Mobile layouts of the auth page

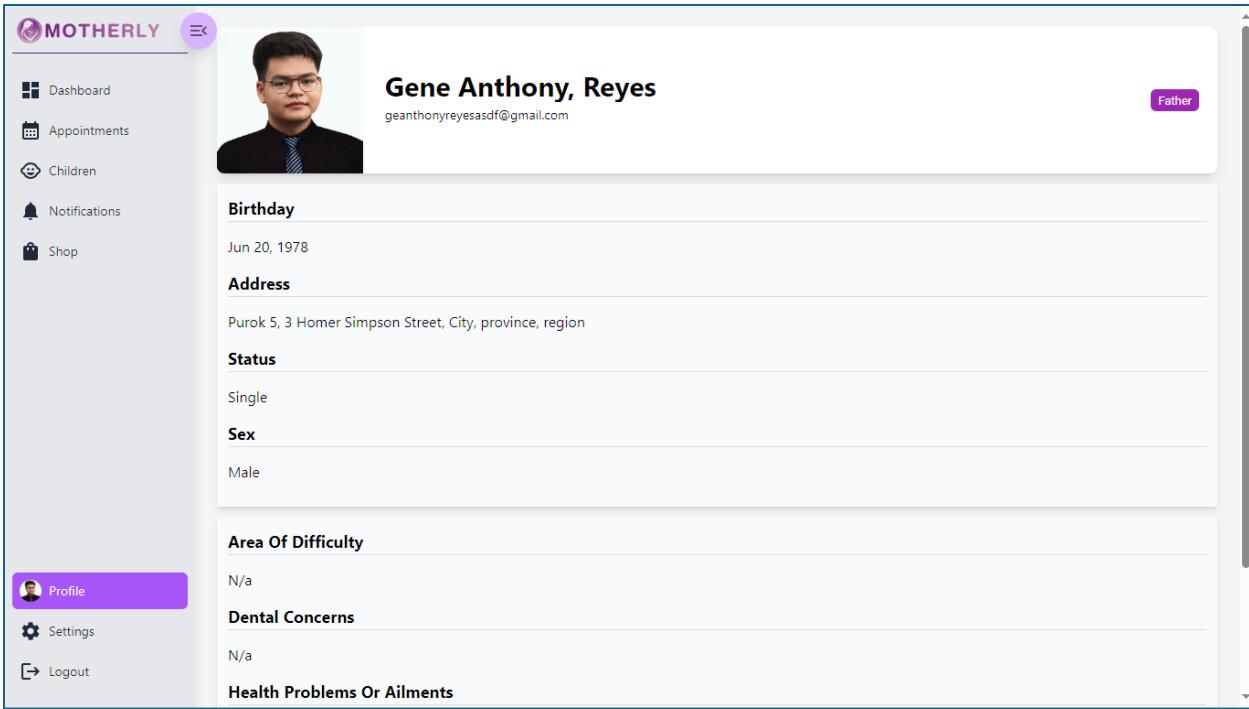


Figure 14. Profile Page

The profile management module initially contained most of the application's functionalities, including family profiles and appointment management. However, it was later revised to focus solely on displaying the essential information provided by the user during registration. This approach improved usability and performance.

To achieve this, react hooks were developed to interact with the user API. These hooks fetch and display user information by validating the requests through JWT token matching, ensuring secure and accurate data retrieval. The hooks allowed the module to dynamically update and present user-specific details, such as contact information and basic profile data.

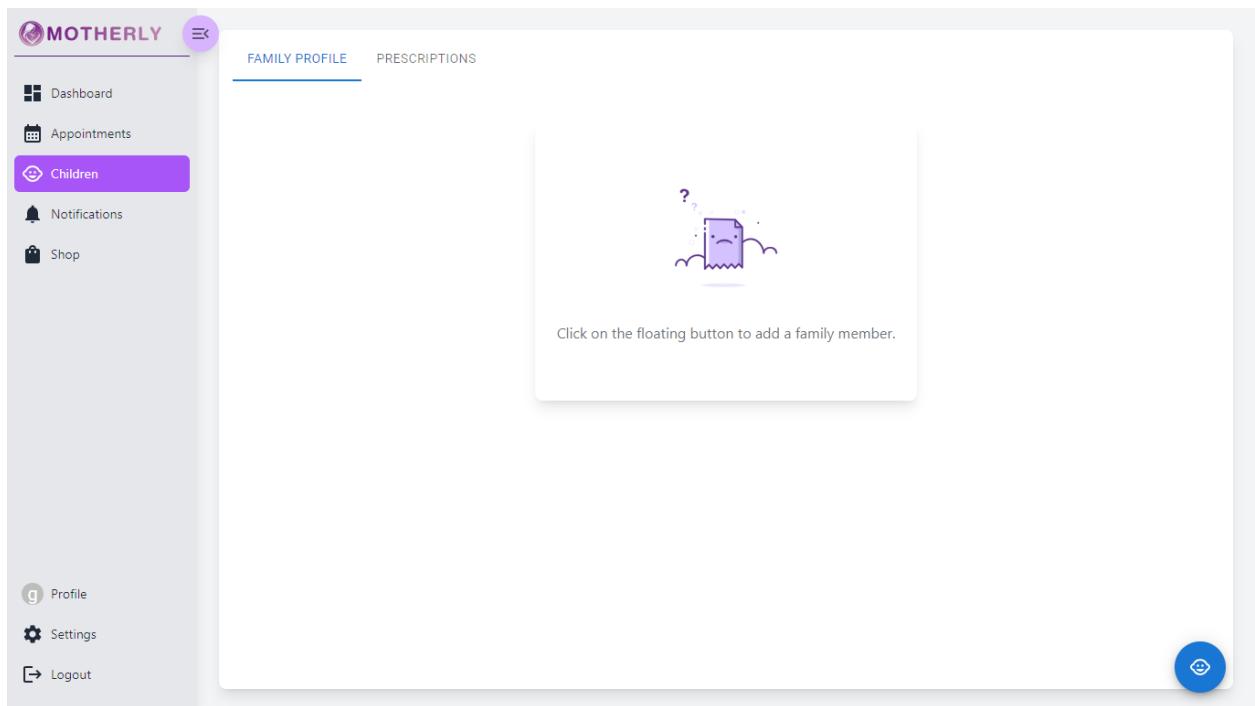


Figure 15. Child management empty state

The form is titled 'Add Family Member'. It includes a placeholder for an 'Avatar' with a plus sign, a 'Name *' field containing '07/17/2024', an 'Age *' field containing '0', and a 'Sex' dropdown menu. A large blue 'ADD' button is at the bottom.

Name *	07/17/2024
Age *	0
Sex	(dropdown menu)

ADD

Figure 16. Child management form

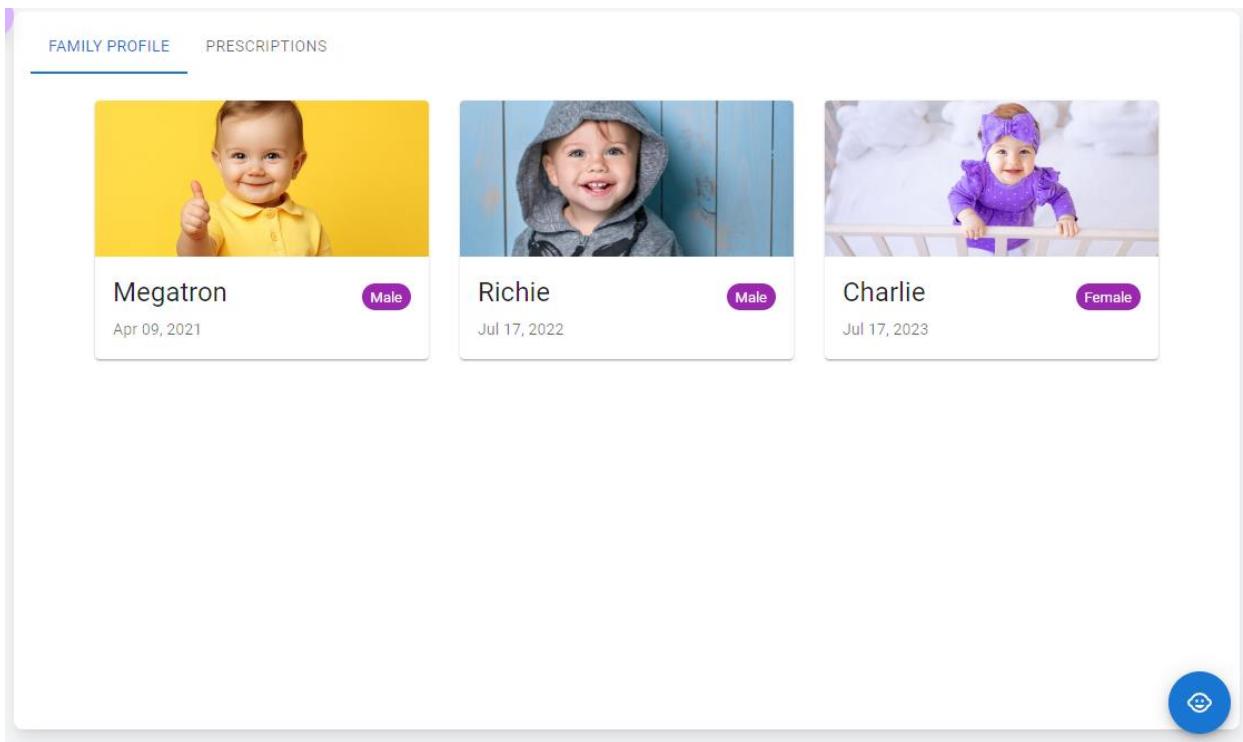


Figure 17. Populated child management page

A screenshot of the "PRESCRIPTIONS" tab from the same mobile application. At the top, there is a section titled "Have a copy of your prescriptions online." with a sub-instruction: "After scheduling an appointment, click on one of your children's cards below to access their prescribed medications." Below this section are the same three child profiles as in Figure 17: Megatron (Male, born Apr 09, 2021), Richie (Male, born Jul 17, 2022), and Charlie (Female, born Jul 17, 2023). The layout is identical to Figure 17, with the addition of the prescription-related text at the top.

Figure 18. Prescriptions Tab

The children management module allows mothers to edit their family profiles and view their children's prescriptions. A single form is used to add a child, while MUI tabs section the page between children and prescriptions, ensuring an organized and intuitive interface.

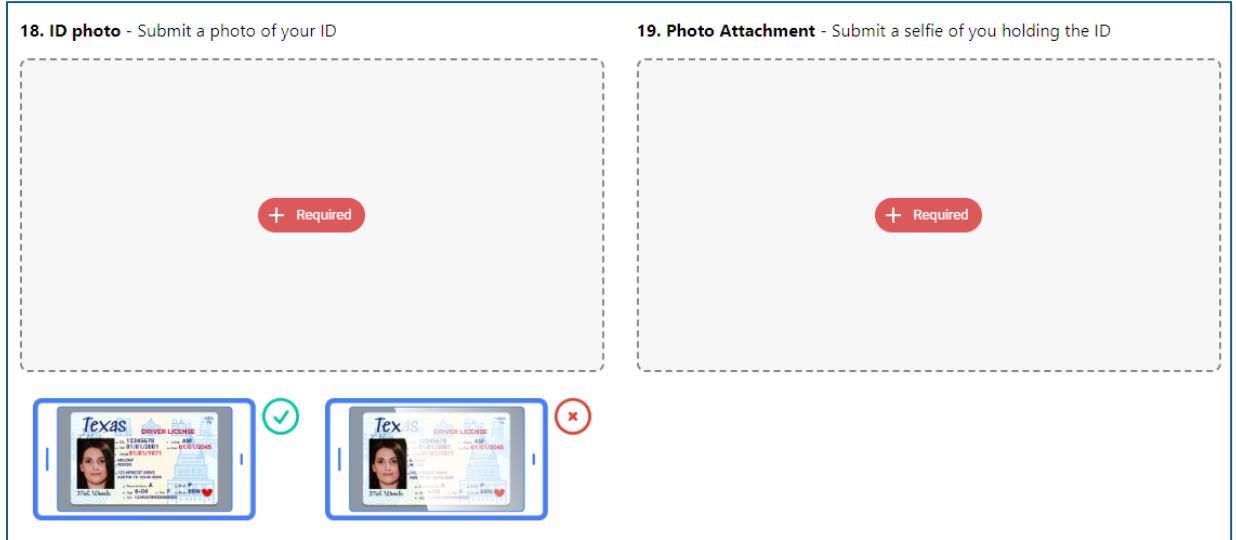


Figure 19. Registration Form Image Upload Module

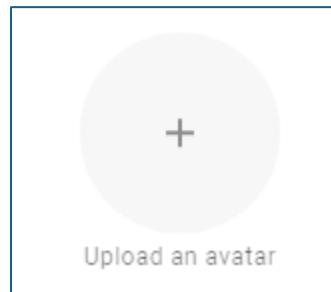


Figure 20. Child Form Image Upload Module

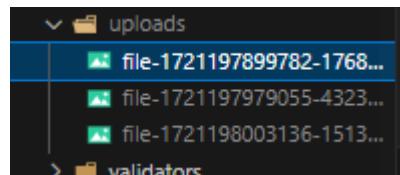


Figure 21. Saved Images in the Backend Server

The image upload module is essential for saving images to the backend. It is used in the registration form to collect a valid ID and a selfie from the registrant (see figure 18). Additionally, it is part of the children management form, where it facilitates the upload of a child's image (see figure 19). This module uses Multer for backend image storage, customizable React components for reusability, and React hooks for connecting the frontend with the backend.

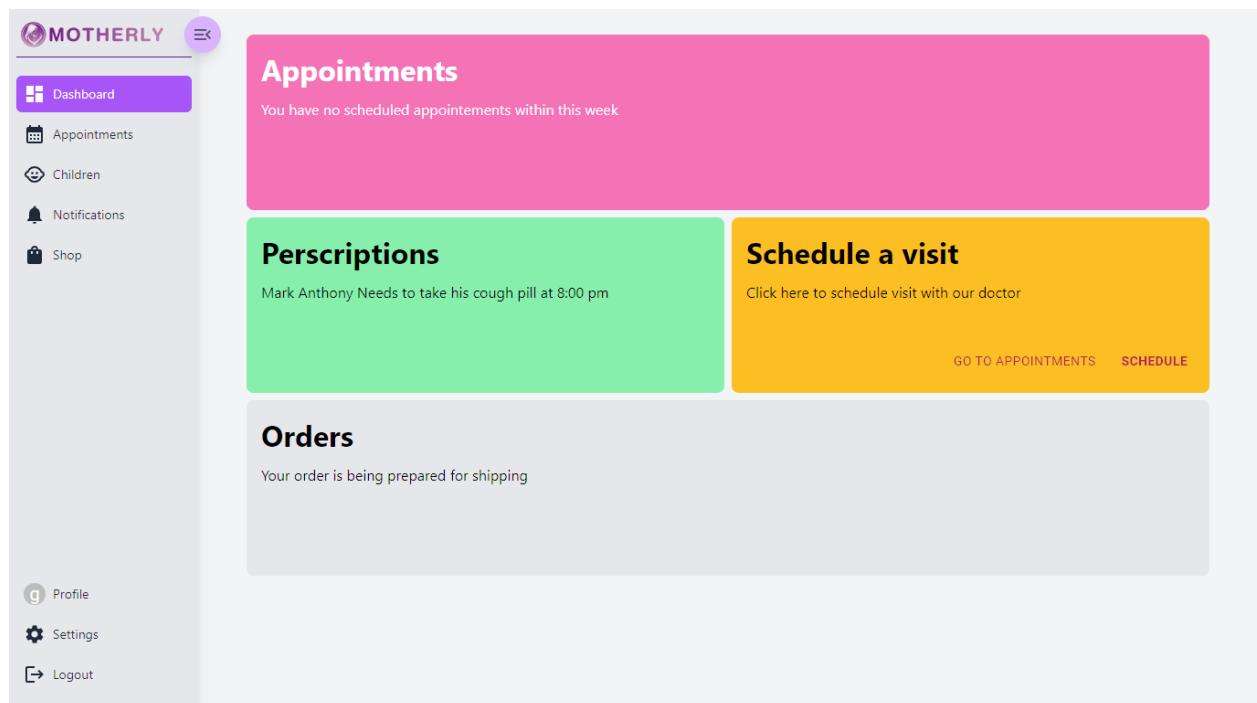


Figure 22. Dashboard page with Dynamic Side Navigation

The dashboard is designed to present the necessary information mothers need on its main page. It also includes all the other functions of the application, from profile management to the child form. The dashboard is dynamic, with potential for further implementation of additional pages like a shop page, notification page, and settings page. It utilizes React Router Dom to manage multiple nested routes efficiently.

The screenshot shows the MOTHERLY mobile application interface. On the left is a vertical navigation bar with icons for Dashboard, Appointments (highlighted in purple), Children, Notifications, Shop, Profile, Settings, and Logout. The main content area displays a list of pending appointments for 'Mother'. There are four entries:

Pending	Mother	Date
Purpose of Appointment: Laboratory		2024-07-08 at 10 : 09
Pending	Mother	2024-07-10 at 09 : 56
Purpose of Appointment: Eye Exam		2024-07-10 at 09 : 56
Pending	Mother	2024-07-10 at 09 : 21
Purpose of Appointment: Checkup		

Figure 23. Appointment scheduling page

A modal dialog box titled "Schedule Appointment". It contains the following fields:

- Appointment for: (dropdown menu)
- Date Today: 07/17/2024 (with a calendar icon)
- Appointment Date: 07/18/2024 02:47 PM
- Purpose * (text input field)
- A large blue "ADD" button at the bottom.

Figure 24. Appointment Form

The appointment scheduling module enables users to send appointment requests to the admin page for doctor approval. It features a single appointment form with front-end validation and uses React components to display appointment cards with the necessary details.

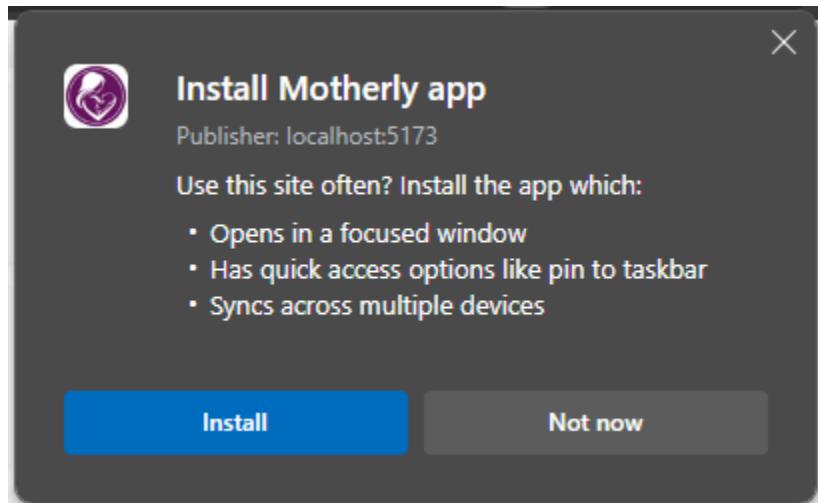


Figure 25. Chrome PWA install prompt

Progressive Web App (PWA) functionality allows the user to install the web application as a standalone app on their device (see figure 25), compatible with Windows, Android, and Apple devices. This was achieved using the PWA Vite package, which eliminates boilerplate code for minimum PWA requirements. A web app manifest was also created to support this functionality. This PWA capability ensures that the application works seamlessly across different platforms and can be accessed offline.

The web application emphasizes responsive design for enhanced accessibility. Tailwind's reactive classes and the React Grid System were utilized to ensure responsive sizing and layout adjustments, making the application user-friendly across a variety of devices and screen sizes. This careful consideration of responsive design ensures that users have a consistent and accessible experience, regardless of the device they are using.

Synthesis of the Practicum Engagement

Learnings

During the practicum at Cloudlex, the student gained several key skills and knowledge areas that significantly contributed to their professional and personal development. This learning experience encompassed various technical and soft skills essential for a successful career in software development.

Effective communication was a crucial aspect of the internship experience. Working in a collaborative environment, the student learned the importance of clear and concise communication. Whether it was discussing project requirements with the supervisor, collaborating with fellow interns, or presenting progress during weekly meetings, good communication ensured that everyone was on the same page. The student also learned to ask questions proactively and seek feedback, which helped clarify doubts and improve work. This skill will undoubtedly benefit the student in any team-based work environment, as clear communication is fundamental to the success of any project.

One of the most significant technical skills the student acquired was proficiency in the MERN stack, which comprises MongoDB, Express, React, and Node.js. Each component of the stack has its unique features and functionalities, and mastering them was a rewarding challenge.

The student learned to use MongoDB for database management, understanding how to create, read, update, and delete data efficiently. They also gained insights into designing schemas and managing collections, which are essential for organizing and retrieving data effectively.

On the backend, the student worked extensively with Express.js, a web application framework for Node.js. They learned how to set up and configure an Express server, create RESTful APIs, and handle various HTTP requests.

React was a major focus of the student's front-end development work. They learned how to create dynamic and responsive user interfaces using React components and hooks. Understanding the virtual DOM, state management, and lifecycle methods was crucial for building efficient and interactive applications. Understanding Node.js modules and package management with npm was also a key part of this learning process.

Ensuring that web applications are accessible to all users, including those with disabilities, is a critical aspect of modern web development. During the internship, the student gained hands-on experience in implementing accessibility features. This included using semantic HTML elements, ARIA (Accessible Rich Internet Applications) attributes, and ensuring keyboard navigability.

Material-UI (MUI) is a popular React component library that provides pre-designed and customizable UI elements. The student used MUI extensively to create professional and consistent user interfaces. This involved working with various components such as buttons, forms, tables, and dialogs. The student learned to customize these components to match the design specifications of the project, ensuring a seamless and aesthetically pleasing user experience.

Progressive Web Applications (PWAs) offer a unique advantage by providing a native app-like experience through web technologies. During the internship, the student learned to set up and configure a PWA. This involved using the PWA Vite package, which simplifies the process by removing boilerplate code for minimum PWA requirements. The student also created a web app

manifest, which defines the application's appearance and behavior when installed on a user's device. Understanding service workers was another crucial aspect of this process, as they enable offline functionality and background synchronization. Setting up a PWA taught the student how to enhance the user experience by making web applications more reliable, fast, and engaging.

The structured training phase provided by Cloudlex equipped the student with a solid foundation in various technical areas. The follow-along videos, created by industry experts like Banish Narang, were particularly beneficial. These tutorials covered essential topics such as setting up a MERN application, implementing authentication with JWT tokens, creating dynamic interfaces using Framer Motion, and working with Material-UI tables. By following these tutorials, the student gained practical experience and a deeper understanding of the technologies and tools used in real-world projects. This hands-on learning approach enabled the student to apply theoretical knowledge in practical scenarios, enhancing problem-solving skills and technical proficiency.

The culmination of the training and learning was the development of the Motherly application, a medical tracker for mothers to manage appointments and track their children's medical records. This project allowed the student to integrate and apply all the skills learned. The student was involved in the entire development process, from setting up the initial project structure to implementing complex features and ensuring the application was responsive and accessible. This experience taught the student how to handle the challenges of full-stack development, coordinate with team members, and deliver a complete and functional application.

Realizations

During the internship, the student realized that project planning is essential for the success of any development project. Proper planning ensures that all team members are aligned with the project goals and timelines. It also helps in identifying potential risks and challenges early on, allowing for the development of contingency plans. This realization emphasized that meticulous planning is a cornerstone of efficient and successful project execution.

The student realized that the foundational concepts taught in academic settings provided a solid base for tackling real-world problems. Concepts such as algorithms, data structures, and programming principles proved invaluable during the internship. This reinforced the idea that the education received in school is directly applicable and essential for professional success.

Having a good mentor is incredibly valuable. The student experienced firsthand the benefits of having a knowledgeable and supportive mentor. The mentor provided guidance, feedback, and insights that were instrumental in the student's growth and development. This experience highlighted the importance of mentorship in nurturing talent and fostering a positive learning environment.

The student found a stronger preference for front-end development over full-stack development. Through the internship, the student discovered a greater comfort and enjoyment in working on front-end tasks. This realization will help in future career decisions, allowing the student to focus on areas of strength and interest. Understanding personal preferences and strengths is vital for career satisfaction and growth.

There is always more to learn in the field of software development. The student realized that the technology landscape is constantly evolving, and staying updated with the latest trends and advancements is crucial. This understanding fostered a commitment to continuous learning and self-improvement. The student recognized the need to stay curious, keep exploring new technologies, and strive for personal and professional growth.

Conclusion

The internship at Cloudlex was an invaluable experience that provided the student with significant learning opportunities and professional growth. Over the course of the internship, the student developed essential technical skills, including proficiency in the MERN stack, a deep understanding of accessibility, and expertise in working with Material-UI elements. The student also gained practical experience in setting up Progressive Web Applications, managing time effectively, and applying knowledge from various training resources to real-world projects.

Through the development of the Motherly application, the student was able to integrate these skills into a cohesive project, demonstrating the ability to handle both front-end and back-end development tasks. The internship also emphasized the importance of project planning, the practical application of academic knowledge, and the value of mentorship. Realizing a preference for front-end development and understanding the need for continuous learning were key takeaways that will guide the student's future career path.

Overall, the internship was a transformative experience that not only enhanced the student's technical capabilities but also fostered personal growth and professional development. The knowledge and skills acquired during this period have equipped the student with a strong foundation for a successful career in software development.

Appendices

Appendix A Competency-Based CV



Gene Anthony Reyes

San Pedro, Laguna, Calabarzon, Philippines • gacreyes@live.mcl.edu.ph • (+63) 9434-236-458

Education

Mapúa Malayan Colleges Laguna	Apr 2019 - May 2024
Bachelor's degree, Computer Science. GWA 1.56	

Colegio San Agustin-Binan	Jun 2006 – Mar 2019
TVL – ICT. Graduated 3 rd Honors	

Experience

Frontend Developer	Jan 2023 - Mar 2023
Boyemma Trucking Services	
Facilitated task execution within the front-end team, contributed to web application design using Figma, and implemented responsive interfaces using Svelte and Tailwind. Proficient in Fetch APIs, I also collaborated on backend tasks, showcasing versatility in both frontend and backend development.	

Customer Service Representative	May 2019 - Jul 2019
iQor	
Received foundational training as a customer service representative, enhancing communication and problem-solving abilities. Successfully handled over 100 customer inquiries, gaining valuable insights into the company's technical aspects, tools, and products.	

Activities

STEP UP R4A Cohort	Oct 2023 - Dec 2023
Department of Information and Communications Technology	

Participated in STEP UP, a startup-focused empowerment project designed to support early-stage ventures through mentorship and upskilling initiatives. Successfully guided a local startup through an intensive mentorship program, leading to the development of a meaningful Minimum Viable Product.

CompTIA Labs for IT Fundamentals	Apr 2023 – May 2023
CompTIA	

Enhanced practical skills and deepen comprehension of IT fundamentals. Leveraged real equipment and software environments to address key exam objectives and reinforce prior training.

Licenses & Certifications

NSE 1 Network Security Associate	Issued Feb 2023
FORTINET	
NC III Visual Graphic Design	Issued Mar 2019
TESDA	
NC III 2D Animation	Issued Apr 2018
TESDA	

Technical Skills

Language: Fluent English and Tagalog.

Programming: Python, JavaScript, C#, PHP, Dart, Java.

Frameworks: Laravel, Flutter, SvelteKit, React, .NET, Unity.

Technical: Figma, MySQL, Tailwind CSS, CSS, HTML, Microsoft Excel and Access, Postman.

Projects

Gawa

Feb 2023 - May 2024

Mapúa Malayan Colleges Laguna

Co-developed a service aggregator app with a talented team using Flutter and Firebase. Presented the concept at PSC8, attracting interest from investors and LGUs. Ensured app quality by meticulously reviewing user flow details.

KaGawa Registration

Feb 2024 - Present

Mapúa Malayan Colleges Laguna

Crafted using Flutter with a backend powered by Firebase, is designed to offer service providers a seamless registration process as workers on the Gawa platform.

Xpense

Sep 2023 - Present

Xpense is a smart financial tracker made for recording receipts, invoices, and business expenses. Link your bank account and it'll automatically label and organize expenses for you.

Gawa Demographic Survey

Nov 2023 - Nov 2023

Mapúa Malayan Colleges Laguna

Frontend interface using React.js and Tailwind CSS for a forest-classifier API that predicts our customer's demographic through a survey.

AI student classifier

Oct 2023 - Oct 2023

Mapúa Malayan Colleges Laguna

k-means and naive bayes classifier, which predicts a student's cluster based on their socioeconomic and demographic data.

Trip Management System & Payment Management System

Jan 2023 - Mar 2023

Boyemma

Boyemma TMS & PMS simplifies trip and billing management for trucking companies. It efficiently handles outgoing freights and crew operations.

Research Experience

Fairness-Aware Recommendation System

Aug 2023 - May 2024

Mapúa Malayan Colleges Laguna

Conducted literature reviews on fairness and bias in recommendation systems. Evaluated the performance of the recommendation system through experimentation and analysis of user feedback. Integrated missing functionalities and addressed software bugs. Documented testing procedures and outcomes to support for publication.

Assessing Motorcycle Tires using Convolutional Neural Network

Aug 2022 – Nov 2022

Mapúa Malayan Colleges Laguna

Gathered, organized, and cleaned a large dataset of motorcycle tires to be used to train a mask R-CNN model in assessing motorcycle tires using a Convolutional Neural Network.

Appendix B Endorsement Letter



7 May 2024

MR. LEX TANSIONGCO

Senior Programmer, Cloudlex Software Solution
1592 Candida St, Pandacan, Manila, 1011 Metro Manila

Dear Mr. Tansiongco,

The BS Computer Science program of Mapúa Malayan Colleges Laguna requires their students to undergo a Practicum program for a minimum of 324 hours during the third term of our academic calendar.

We would like to request that Mr. Gene Anthony C. Reyes be permitted to have his training in your company. We believe that your company can provide the relevant exposure necessary for our students to achieve the intended learning outcomes for the BS Computer Science program. We are confident that he will be able to acquire the practical knowledge and skills expected from a Computer Science graduate which, in turn, would guarantee a continuous supply of CS professionals needed by your company.

We thank you for your favorable action and we look forward to a more meaningful linkage that is mutually beneficial to our students and your company.

With warm regards,

Jonalyn G. Ebron

JONALYN G. EBRO
BS Computer Science Program Chair
College of Computer and Information Science
Mapúa Malayan Colleges Laguna

jgberon@mcl.edu.ph
(049) 832-4076

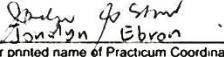
5/10/24

Jonalyn G. Ebron

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Trunkline : +63 (49) 832-4000
Fax : +63 (49) 832-0017, +63 (2) 8520-8975
Email : mclinfo@mcl.edu.ph

mcl.edu.ph MapuaMCL @mapuamcl

Appendix C Practicum Acceptance

 Malayan Colleges Laguna A MAPUA SCHOOL		REVISION NO. [00] REVISION DATE [May 10, 2016]	
PRACTICUM CONFIRMATION AND ACCEPTANCE FORM			
IMPORTANT INFORMATION			
<ul style="list-style-type: none">• STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.• ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.• SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.			
NAME OF STUDENT	Gene Anthony C. Reyes	STUDENT NUMBER	2019153006
COURSE CODE	CS199F	SY/TERM ENROLLED	2023-2024 3rd Term
<p>This is to certify that Gene Anthony C. Reyes (name of student-trainee) has been accepted for practicum at Cloudlex Software Solution at 1592 Candida St, Pandacan, Manila, 1011 Metro Manila (name and address of establishment) and will be attached to the Software Development department/s for a minimum of, but not limited to 324 hours. Training will commence on May 7, 2024 and is expected to end on July 5, 2024. Attached is the list of requirements.</p>			
COMPANY REPRESENTATIVE		Senior programmer	
		Official Designation	
Signature over Printed Name		jextan7@gmail.com	
IT		09174707768	
Department		Email and Contact Number/s	
NOTED BY		Date	
		5/7/2024	
Signature over printed name of Practicum Coordinator			
COPY (1) STUDENT, (2) HOST COMPANY, (3) PRACTICUM COORDINATOR			
FORM OVPA 030B			
THIS FORM IS AVAILABLE AT THE OVPA.			

Appendix D

Liability Waiver



Malayan Colleges Laguna
A MARIA SCHOLAR

REVISION NO. 00
REVISION DATE May 10, 2016

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

IMPORTANT INFORMATION

- THIS FORM IS TO BE ACCOMPLISHED AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE STARTING THE PRACTICUM.
- READ AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER.
- ENSURE THAT ALL SIGNATORIES SIGN THE FORM.

I, Gene Anthony C. Reyes, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL"), do hereby voluntarily undergo on-the-job training at Cloudlex Software Solutions, hereinafter referred to as the "Host Company", located at 1592 Candida St., Pandacan, Manila, 1011 Metro Manila, under the following terms and conditions:

- a. That the practicum training will commence on May 7, 2024 and ends on July 5, 2024 and will have to complete a minimum of 324 hours required for the on-the-job training;
- b. That I shall observe proper decorum and act professionally at all times and abide by the Company's rules and regulations and comply with those imposed for the training program, otherwise, I shall be excluded from further participation;
- c. That in the course of my training program, I may have access to information which may be of confidential in nature and proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure agreement as a prerequisite to my participation in the training program;
- d. That the time I will spend on the training program in the completion of my on-the-job training requirements will not and should not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, the Company may, as a unilateral act of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodations, etc.;
- e. That I fully understand that notwithstanding the allowances enumerated in the preceding section which I may receive, there exists no labor-management and/or employer/employee relationship between me and the Company where I will undergo my training;
- f. That I shall exercise due care and diligence in the tasks assigned to me and personally be made answerable for any and all liabilities for damage to property or injury to third person, which may be occasioned by my intentional or negligent acts during the course of my on-the-job training;
- g. That I shall likewise hold the Host Company and MCL free and harmless from any and all liability and responsibility for any sickness or injury to myself and third parties and damage to property which I may sustain and/or may occur at any time during the training program, including time spent in traveling to and from any and all premises and locations where I may be required to go to as part of my training program;
- h. That the Company reserves the right to discontinue my training on reasonable grounds upon written notice to MCL and myself. Additionally, in the event my training program is discontinued for reasons attributable only to myself, I may be made to reimburse the Host Company for any/all the allowances, stipends, etc., which I may have received from them during and prior to the termination of my training program;
- i. That in addition to my liability under section g and for the pre-termination of my training program provided for under section h hereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or be a ground for disqualification from graduation;

Signed on this 3rd day of May.

Gene Anthony C. Reyes
Signature over printed name of Student Trainee

WITH OUR CONSENT:

Signature over printed name of Parent/Guardian
(for minors only)

NOTED BY:

Jonilyn J. Sison
Jonilyn E. Ebron 5/3/24
Printed Name and Signature of Practicum Adviser/ Coordinator

Lex Santos 5/3/24
Printed Name and Signature of Host Company Representative

Appendix E

Training Plan



REVISION NO. 00
REVISION DATE May 10, 2016

TRAINING PLAN

NAME	Gene Anthony C. Reyes	COURSE CODE	CS199F
PROGRAM & STUDENT NO.	BSCS & 2019153006	COURSE TITLE	CS PRACTICUM

STUDENT OUTCOMES

C01: Identify, analyze, and design business process solution to the problem faced by the organization.

C02: Apply the different concepts of system analysis and design, software engineering, database management, and programming courses in the problem-solving process in the organization.

C03: Acquire new knowledge and experience while in the organization.

AREAS / PHASES OF TRAINING AND TIME ALLOTMENT

- A. Company / Training Orientation - 72 hours
- B. Software Development - 204 hours
- C. Technical Documentation - 24 hours
- D. Other IT-related training activities - 24 hours

EVALUATION GUIDELINES & COURSE OUTCOMES

DEMONSTRATION OF SOFT SKILLS (40%)	DEMONSTRATION OF TECHNICAL SKILLS (60%)
<p>KEY AREAS</p> <p>COMMUNICATION SKILLS (20%)</p> <p>Relate to co-trainees/supervisors terminologies and rules</p> <p>Recite procedures and instructions needed for the tasks</p> <p>Identify and describe safety signs and symbols</p> <p>Ask critical questions related to the tasks</p> <p>Produce well-written regular and incident reports</p> <p>Prepares and presents reports using Information and Communication Technology (ICT)</p> <p>PROFESSIONAL DEPORTMENT (20%)</p> <p>Observes proper grooming and attire</p> <p>Reports to work regularly on time and as necessary, even beyond prescribed working hour</p> <p>Acts according to the job description given by the company</p> <p>Willing to accept new tasks apart from the usual routine and responsibilities</p> <p>Delivers quality output on time</p> <p>Demonstrates respect for different individuals</p> <p>INITIATIVE (+5%)</p> <p>Volunteers to perform tasks beyond routine tasks</p>	<p>KEY AREAS</p> <p>Software Development (40%)</p> <ul style="list-style-type: none"> - Able to implement front-end tools, React.js and Vite.js (15%) - Able to implement back-ends tool, Node Express (15%) - Able to implement Database (MongoDB) (10%) <p>Technical Documentation (20%)</p> <ul style="list-style-type: none"> - List all the developed modules and their functionalities (10%) - Document the testing plans and results (10%) <p>INITIATIVE (+5%)</p> <p>Volunteers to perform tasks beyond routine tasks</p>

CONFORMED	CONSENT (FOR MINORS ONLY)	NOTED BY	ENDORSED BY	APPROVED BY
 Gene Anthony C. Reyes		 KEXTANSIONGCO	JONALYN G. EBRON	JONALYN G. EBRON

COPY TO: STUDENT, MENTOR, COMPANY, PRACTICUM SUPERVISOR

THIS FORM IS AVAILABLE AT THE OVA.

FORM OVAA-030D

Appendix F

Complete Weekly Journal



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 6 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	MERN setup & Short Online Meeting	SHIFT/TIME	1:00 - 9:00 PM

On May 6, I started with the MERN setup tutorial and began working on the MERN-Authentication project.

This gave me a good introduction to setting up a MERN stack environment and creating a basic authentication system.

In the evening, I had a meeting with Sir Lex from 7:00 pm to 8:40 pm

- he gave a brief tutorial and outlined the tasks for the week.
- his session highlighted the importance of proper documentation and planning.
- The detailed walkthrough and task assignment gave me a clearer picture of the project goals and deadlines.

TRAINEE'S SIGNATURE



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

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DATE	May 7, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Continuation of MERN Setup	SHIFT/TIME	8:00 AM - 5:00 PM

May 7 marked my official start date as an intern.

I continued working on the MERN-Authentication project and completed the pre-boarding requirements.

I faced some version conflicts but managed to resolve them by consulting online resources.

This initial setup was crucial in understanding the foundational elements of the MERN stack.

Which includes, MongoDB, Express.js, React, and Node.js.

ANSWER

TRAINEE'S SIGNATURE

COPY: (1) STUDENT: (2) PRACTICUM ADVISER

FORM OVPAAG 030G

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REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

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DATE	May 8, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Sidebar Design	SHIFT/TIME	8:00 AM - 5:00 PM

On May 8, I started a React Sidebar tutorial using Framer-motion and began designing an e-commerce website. I learned about creating dynamic and responsive sidebars and got insights into e-commerce website design principles.

I faced some challenges with integrating Framer-motion animations:
- resolved them by experimenting with different code snippets.

This day emphasized the importance of hands-on experimentation and iterative learning in mastering new technologies.

TRAINEE'S SIGNATURE



REVISION NO.:	00
REVISION DATE:	May 10, 2016

DAILY JOURNAL

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DATE	May 9, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Focus on Site design	SHIFT/TIME	8:00 AM - 5:00 PM

On May 9, I continued working on the e-commerce website design.

I deepened my understanding of e-commerce functionalities and best practices for designing a seamless user experience.

I faced design challenges but overcame them by researching successful e-commerce website designs.

This research provided valuable insights mainly:

- user interface design
 - usability
 - effective and user-friendly practices

ANSWER *(The following is a sample answer. The student's answer may be different.)*

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

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DAILY JOURNAL

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DATE	May 10, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Finalization of framework	SHIFT/TIME	8:00 AM - 5:00 PM

On May 10, I finalized the design and framework for the e-commerce website

I also reviewed the MERN-Authentication project based on feedback from sir Lex.

This day taught me the importance of iterative design and development processes.

I managed multiple tasks by creating a detailed schedule and setting priorities

Overall, this first week provided a solid foundation in

- MERN stack
- practical insights into project management
- design

In the upcoming days I'll try to incorporate more

- regular feedback sessions
- detailed documentation
- project management tools to enhance workflow and efficiency.

TRAINEE'S SIGNATURE



REVISION NO.:	00
REVISION DATE:	May 10, 2016

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DATE	May 13, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	sidebar component & Online meeting	SHIFT/TIME	1:00 - 9:00 PM

On May 13, I completed the React sidebar tutorial, which will be used for the Motherly application.

This involved finalizing the sidebar component and ensuring it was fully functional and user-friendly.

In the evening, I had a meeting with Sir Lex from 7:00 pm to 9:00 pm

- he gave a brief tutorial and outlined the tasks for the week.
 - he gave his input on the tasks accomplished the previous week
 - he gave minor revisions for the completed design, framework and taskbar

ANSWER

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DATE	May 14, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Framer motion	SHIFT/TIME	8:00 AM - 5:00 PM

On May 14, I finished the React Framer Motion tutorial.

This tutorial helped me understand how to add animations to React components

This design component enhances the overall user experience

Major tasks accomplished

- explore various animation techniques
 - Apply animation techniques to the sidebar component
 - Make sidebar component more interactive and progressive

ANSWER

TRAINEE'S SIGNATURE

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DAILY JOURNAL

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DATE	May 15, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Framer motion demo	SHIFT/TIME	8:00 AM - 5:00 PM

On May 15, I created a demo using Framer Motion.

This demo showcased the animations and transitions I learned

- to be showcased in next week's meeting.
- to demonstrate how Framer Motion could be applied in real-world application.

The hands-on experience with Framer Motion was invaluable in understanding how animations can improve user engagement and interface aesthetics.

TRAINEE'S SIGNATURE



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DATE	may 16, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Node.js demo	SHIFT/TIME	8:00 AM - 5:00 PM

On May 16, I studied the Node.js documentation and began creating a demo application.

- the demo will be showcased at the start of next week as part of cloudlex's onboarding training requirement

This was my first step towards building a backend for the Motherly application

This exercise gave me a deeper understanding of server-side development.

I learned about setting up an Express server, handling routes, and integrating MongoDB for data storage.

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DATE	May 17, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	continuation on Node.js demo	SHIFT/TIME	8:00 AM - 5:00 PM

On May 17, I continued working on the Node.js demo application

- focused on security
- focused on scalability

I started implementing various features such as user authentication and data validation.

This day reinforced the importance of having a well-structured backend to support frontend functionalities efficiently.

Overall, Week 2 was focused on advancing my skills in React and backend development.

I completed the React sidebar and Framer Motion tutorials, which enhanced the user interface for the Motherly application by adding dynamic and interactive components. Creating a demo with Framer Motion allowed me to apply and showcase my newfound animation skills. Studying Node.js and starting a demo application provided a solid foundation in backend development. This week highlighted the importance of continuous learning, experimentation, and the integration of frontend and backend technologies to create a seamless user experience.

FORM OVPAA 030G

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DATE	May 20, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Finalization of demo application & online meeting	SHIFT/TIME	1:00 - 9:00 PM

On May 20, I finished the Node.js demo application.

This included implementing all necessary features such as

- user authentication
- data validation
- CRUD operations

Completing this demo application gave me a comprehensive understanding of backend development using Node.js

A short meeting was held between 7:00pm to 9:00pm for all cloudlex interns

- A showcase was done to demonstrate our group's learning abilities and understanding towards the MERN stack
- The next set of tasks for the week were given by Sir Lex.


TRAINEE'S SIGNATURE



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DATE	May 21, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Motherly project setup	SHIFT/TIME	8:00 AM - 5:00 PM

On May 21, I started the Motherly project.

This involved setting up the initial project structure and integrating the components I had previously developed

Main tasks done

- implemented previous sidebar component
- hosted the framework on GIT for ease of access for team members
- added additional packages for development use

TRAINEE'S SIGNATURE

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DATE	May 22, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Motherly security	SHIFT/TIME	8:00 AM - 5:00 PM

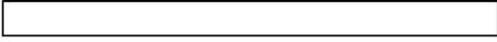
On May 22, I added another layer of security to motherly by following the Net Ninja MERN auth tutorial.

This tutorial provided deeper insights into implementing authentication in a MERN stack application

This included the use and understanding of backend concepts such as

- JWT tokens
- secure password storage
- salt encryption

The tutorial was essential in enhancing the security aspects of the Motherly application.


TRAINEE'S SIGNATURE



Malayan Colleges Laguna
A MAPÚA SCHOOL

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DATE	May 23, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Motherly Continuation	SHIFT/TIME	8:00 AM - 5:00 PM

On May 23, I continued working on the Motherly project,

continued incorporating the authentication mechanisms learned from the Net Ninja tutorial.

This involved integrating JWT tokens for secure user sessions and setting up protected routes in the backend.

Along with the backend, progress in the frontend was started by creating the layout of signup and registration forms for motherly.

ANSWER The answer is 1000.

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

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DATE	May 24, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Motherly Auth Testing	SHIFT/TIME	8:00 AM - 5:00 PM

On May 24, I focused on testing and debugging the authentication features in the Motherly project.

Before testing, finalization of signup and registration form layouts were done.

afterwards, thorough testing of the login and registration processes to ensure they were secure and functioning correctly.

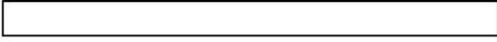
This day highlighted the importance of rigorous testing in delivering a reliable and secure application.

Overall, Week 3 was pivotal in progressing the Motherly project.

I completed the Node.js demo application, which solidified my understanding of backend development.

Starting the Motherly project and working through the Net Ninja MERN auth tutorial provided deeper insights into authentication mechanisms, which I successfully integrated into the application.

Testing and debugging the authentication features ensured they were secure and reliable.


TRAINEE'S SIGNATURE

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DATE	May 27, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	PWA design & online meeting	SHIFT/TIME	1:00 - 9:00 PM

On May 27, I started working on the design of the Signup and Login forms for the Motherly application.

This involved designing user-friendly forms for both web and mobile along with integrating them with the backend authentication system

Creating these forms was crucial for enhancing the user registration and login functionalities.

A brief meeting was held to discuss the progress made from the previous week.

- A quick project presentation was done along with other interns of Cloudlex
- A new set of tasks were provided along with revisions for the current project's progress.


TRAINEE'S SIGNATURE



REVISION NO.:	00
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DATE	May 28, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Profile Page	SHIFT/TIME	8:00 AM - 5:00 PM

On May 28, I partially finished the Motherly frontend, including the profile page.

I also created the authentication logic for the application's frontend, using hooks to connect to the backend.

This day's work was significant in connecting the frontend with the backend

- allowing users to register complete details
 - login and load their profiles.

ANSWER *See page 10.*

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DATE	May 29, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Material React Table	SHIFT/TIME	8:00 AM - 5:00 PM

On May 29, I started working on the frontend for the Country editor using Material React Table this component was used for the admin page of the Motherly application. allowing admins to edit the dynamic values of the registration form.

This involved setting up a dynamic table that allows admin users to manage country data efficiently.

ANSWER The answer is 1000.

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DATE	May 30, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Async loading and frontend finalizations	SHIFT/TIME	8:00 AM - 5:00 PM

On May 30, I implemented pagination/async loading for the Country selector in the registration tab. This feature was essential for handling large datasets and improving the user experience.

other finalizations were also done to the frontend such as

- making the profile page responsive.
- refactoring the profile page to make it easier to read.
- refactoring the registration page to make it easier to read and be more organized

Implementing the async selector emphasized the importance of performance optimization in the registration form.

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DATE	May 31, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	aggregating MongoDB	SHIFT/TIME	8:00 AM - 5:00 PM

On May 31, I focused on aggregating MongoDB data for the Motherly application.

this allows the motherly application to retrieve the data by chunks for the async selector.

This involved creating queries to retrieve and display data.

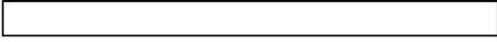
Understanding MongoDB aggregation was crucial for handling and presenting data efficiently in the application.

Overall, Week 4 was focused on developing key components for the Motherly application

I finished the signup and login forms, ensuring they were user-friendly and integrated with authentication.

Completing the frontend and profile page added significant functionality, allowing users to manage their profiles.

This week highlighted the importance of detailed component development, user management and efficient data handling, all essential for building a robust and user-friendly application.


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DATE	June 3, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Front end testing	SHIFT/TIME	8:00 AM - 5:00 PM

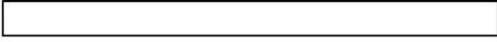
On June 3, I started testing the Signup and Login form's responsiveness for the Motherly application.

I utilized lighthouse to gather insights on the application's efficiency and practices.

This involved finalizing the designs responsiveness and ensuring seamless integration with the backend authentication system

An online meeting is held between sir Lex and Cloudlex Interns.

- Revisions were given after the presentation of progress was conducted
- a set of new tasks were provided for the week.


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DATE	June 4, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	React Hooks completion	SHIFT/TIME	8:00 AM - 5:00 PM

On June 4, I completed the frontend testing of the Motherly application including the react hooks that connect the backend to the frontend.

Design revisions were done based off Sir Lex's insights and comments including:

- revising the registration form to retrieve less data
- changing the layout of the signup form to use react grid system.

This involved extensive testing and debugging to ensure all components were working correctly.


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DATE	June 5, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Material React Table	SHIFT/TIME	8:00 AM - 5:00 PM

On June 5, I continued and partially finished the Country component using Material React Table

This is used in the admin page of the motherly application to set the values of the registration form dynamically

This included adding more functionalities and improving the user interface including:

- adding frontend validations
- implementing frontend aggregation.

overall, enhancing the Country form was important for ensuring admin users could manage data efficiently.


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DATE	June 6, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	country component testing	SHIFT/TIME	8:00 AM - 5:00 PM

I continued refining the Country table component and integrating it with the backend

This involved testing the data retrieval and submission processes

this ensures that the modules were functioning correctly

This day emphasized the importance of thorough testing in delivering a reliable application.


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DATE	June 7, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	finalizing the frontend routes	SHIFT/TIME	8:00 AM - 5:00 PM

On June 7, I focused on finalizing the frontend routes for the Country component along with the admin page

This involved adding validation and error handling along with protecting the routes for secure access.

- nesting the navbar component inside the app page.
 - nesting the admin and location routes inside the app page.
 - creating a user auth context to secure the routes.

Overall, this week was about completing key components and refining the motherly application.

Challenges with data handling in the Country form were tackled through documentation and testing.

Moving forward, continuous testing and refinement will be essential to maintain a robust and user-friendly application.

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DATE	June 10, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	landing page	SHIFT/TIME	1:00 - 9:00 PM

On June 10, I started designing the landing page for the Motherly application

This involved creating a visually appealing and informative page to attract users.

Designing the landing page was crucial for making a strong first impression and providing essential information about the app.

Major components utilized in the creation process were

- react-grid-system
- Auth Context
- Tailwind
- Navbar and Header component
- Tailwind animations as an alternative for Framer Motion

A short meeting was held at 7pm to 9pm

- Progress regarding the previous tasks were checked
- a set of tasks were given for the following two weeks
- revisions were given regarding the current progress


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DATE	June 11, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	API endpoints for the landing page	SHIFT/TIME	8:00 AM - 5:00 PM

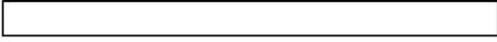
On June 11, I connected the landing page's backend to the frontend, enabling the application to display

- dynamic data.
- data specific to the logged user

Revisions stated by Sir Lex were started

- setting the root route the login page instead of the landing page
- using headers with tabs instead of nav bars

This involved setting up API endpoints and ensuring data was correctly retrieved and displayed.


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DATE	June 12, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Family Profile	SHIFT/TIME	8:00 AM - 5:00 PM

On June 12, I updated the profile page to display children's information.

This allowed the logged in users to set up their family profile by enabling them to add family members.

Major tasks involved:

- creating child cards
- adding child routes using react router dom
- creating the child page that displays the data

Displaying children's information was important for providing users with a comprehensive view of their profiles.

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DATE	June 13, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	upload image module	SHIFT/TIME	8:00 AM - 5:00 PM

On June 13, I added the functionality for users to upload images.

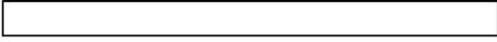
this allowed users to

- upload their verification id
- upload their profile image
- upload their child's profile image

This involved integrating a file upload feature using Multer

Alongside ensuring the API worked seamlessly with the backend.

Adding image upload functionality enhanced the user experience by allowing users to personalize their profiles.


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DATE	June 14, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Finalization and testing of Upload API	SHIFT/TIME	8:00 AM - 5:00 PM

On June 14, I continued refining the image upload feature by

- Creating a frontend component that utilizes the API
- Creating a react hook that calls the API
- testing the overall module

This allows our group to reuse the component all throughout the application

This involved ensuring all functionalities were working correctly and making necessary adjustments based on testing results.

Refining and testing were crucial for delivering a polished and reliable application.

Overall, this week focused on enhancing the user interface and ensuring seamless interaction between the frontend and backend.

Designing the landing page, connecting the backend to the frontend displaying children's information on the profile page and adding image upload functionality were significant accomplishments


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DATE	June 17, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Debugging	SHIFT/TIME	8:00 AM - 5:00 PM

On June 17, I focused on testing and debugging the application.

This involved conducting extensive tests to identify and fix any issues.

Potential issues found were:

- Cosmetic issues with the scrollbar rendering twice in the family profile page
- Issues with the Add child api where images were multiple times

I addressed these issues by dismantling the problem and tackling the solution step by step:

- I set the root css to scroll auto
- I created a function that removes the images from the database if the validators returned an error

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DATE	June 18, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	landing page design	SHIFT/TIME	8:00 AM - 5:00 PM

On June 18, I finished the landing page design by utilizing Tailwind animations

This involved finalizing the visual elements and ensuring the page was engaging. Tasks were:

- replacing hotlinks into webp files
- utilizing the various tailwind animations per section of the page

Completing the landing page was a significant step in preparing the application for user onboarding.

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DATE	June 19, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Multer implementation	SHIFT/TIME	8:00 AM - 5:00 PM

On June 19, I finalized implementing Multer, a middleware for handling file uploads in Node.js

- Created validators that reject unsupported image types.
- tested for further bugs
- Created an API that retrieves files for display
- tested API for bugs

Implementing Multer was crucial for enhancing the file upload functionality and ensuring data security.


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DATE	June 20, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Registration form revisions	SHIFT/TIME	8:00 AM - 5:00 PM

On June 20, I implemented revisions regarding the registration form.

This revision ensures the form is user-friendly and accessible to all ages and disabilities

- Added a title
 - Added alt texts
 - Added aria functionalities
 - Highlighted required fields

ANSWER

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DATE	June 21, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	final testing and debugging	SHIFT/TIME	8:00 AM - 5:00 PM

On June 21, I focused on final testing and debugging, ensuring all functionalities were working

I did some minor testing with the Site's PWA compatibility

I faced some challenges with implementing the PWA Vite package into the application:

- There's a need to create a PWA Manifest for the site.

This day highlighted the importance of thorough testing and iteration in delivering a polished application.

Overall, this week involved finalizing critical components, improving file upload capabilities, and conducting extensive testing

Completing the landing page, implementing Multer, finalizing the registration form

and thorough testing were significant achievements. Continuous refinement and testing will be essential to ensure a smooth and robust user experience. Furthermore, there is a need for a PWA manifest

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DATE	June 24, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Appointment Scheduling	SHIFT/TIME	1:00 - 9:00 PM

On June 24, I started working on the appointment scheduling feature for the Motherly application

This task involved the tasks of:

- designing the scheduling interface
- designing the individual components of the interface
- creating the form for user input

Starting the appointment scheduling feature was crucial for enabling users to manage their appointments efficiently.

A short meeting was conducted to check on the progress of the application

- a demo was conducted to showcase the progress.
- Sir Lex provided a list of revisions and new tasks


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DATE	June 25, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	finalized admin page	SHIFT/TIME	8:00 AM - 5:00 PM

On June 25, I finalized the location and admin page.

This involved refining the design and ensuring all functionalities were working correctly:

- refined the navbar for better user experience
- created missing admin pages

Alongside the admin page, the API's for adding appointments were created.

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DATE	June 26, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	implemented revisions	SHIFT/TIME	8:00 AM - 5:00 PM

On June 26, I implemented revisions provided by my supervisor regarding the family profile

- Redesigned the layout for easier readability
 - Added icons for user experience
 - Added aria-labels for accessibility

Furthermore, I created React Hooks to connect the appointment form to the backend.

Overall, this day involved making necessary adjustments to improve the user experience and functionality. Implementing these revisions was important for meeting user needs and enhancing the application.

ANSWER The answer is 1000.

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DATE	June 27, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	revise user flow	SHIFT/TIME	8:00 AM - 5:00 PM

On June 27, I implemented further revisions provided by my supervisor regarding the user flow of the application.

This involved refining the navigation and ensuring a seamless user experience.

- Refactored and reorganized the routes
 - Refactored the source code for better organization.

ANSWER

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DATE	June 28, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	installed PWA	SHIFT/TIME	8:00 AM - 5:00 PM

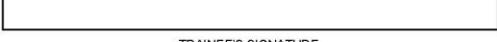
On June 28, I installed PWA (Progressive Web App) features using Vite Plugin.

This involved integrating PWA functionalities to enhance the application's performance and user experience.

- Created a PWA manifest for mobile phones
- Used lighthouse as metrics to refine the efficiency of the site

Installing PWA features was important for making the application more accessible and responsive across different devices.

Overall, this week was focused on expanding functionalities implementing supervisor feedback, and enhancing the application's performance. Starting appointment scheduling, finalizing location and admin functionalities, implementing supervisor revisions for family profiles and user flow, and installing the PWA Vite Plugin were significant milestones.

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DATE	July 1, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Domain purchasing	SHIFT/TIME	1:00 - 9:00 PM

On July 1, our group started by purchasing a domain and hosting services.

A short discussion was held to set up the domain, we used Namecheap for this purpose.
access to cPanel was shared among the team members.

A short meeting was held between the cloudex interns

- Sir Lex guided us into making the domain purchase

This day emphasized the importance of proper domain and hosting setup to ensure a smooth deployment process.


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DATE	July 2, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	setting up sub domain	SHIFT/TIME	8:00 AM - 5:00 PM

On July 2, I began setting up my own subdomain, preparing it for hosting my project.

This involved configuring the subdomain and ensuring it was ready for deployment.

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DATE	July 3, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	preparing for hosting	SHIFT/TIME	8:00 AM - 5:00 PM

On July 3, I finalized the Motherly application, preparing it for individual hosting.

This involved cloning the project to ensure each team member could host their version.

Finalizing the application was essential for ensuring a consistent and functional deployment across different subdomains.

ANSWER The answer is 1000.

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DATE	July 4, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	documentation process	SHIFT/TIME	8:00 AM - 5:00 PM

On July 4, I started the documentation process while deploying the project on my subdomain.

This involved creating comprehensive documentation for setting up the application

This step ensures the deployment is successful.

Organized OJT requirements for signing and validation.

ANSWER The answer is 1000.

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DATE	July 5, 2024	AREA ASSIGNMENT	CloudLex Programmer
TASK	Documentation & testing hosted app	SHIFT/TIME	8:00 AM - 5:00 PM

On July 5, I continued the documentation process

Alongside this, I continued finalizing and testing the hosted Motherly project.

This involved making necessary adjustments based on testing results and ensuring all functionalities were working correctly.

Completing the documentation and testing was crucial for delivering a polished and user-ready application.

Overall, Week 9 was crucial for finalizing and deploying the Motherly application.

We started by purchasing a domain and hosting services through Namecheap and setting up the necessary infrastructure for deployment.

I configured my own subdomain and prepared it for hosting the project.

Finalizing and cloning the Motherly application ensured that each team member could host their version independently. The documentation process was initiated and continued throughout the week.

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Appendix G

DTR



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DAILY TIME RECORD*

NAME OF STUDENT		Gene Anthony C. Reyes			NAME OF HOST COMPANY/DEPARTMENT ASSIGNED TO		IT Department/Cloudlex Software Solutions		
MONTH		May			MONTH		June		
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1					1				
2					2				
3					3	1:00PM	9:00PM	8	LT
4					4	8:00 AM	5:00PM	8	LT
5					5	8:00 AM	5:00PM	8	LT
6	1:00 PM	9:00 PM	8	LT	6	8:00 AM	5:00PM	8	LT
7	8:00 AM	5:00 PM	8	LT	7	8:00 AM	5:00PM	8	LT
8	8:00 AM	5:00 PM	8	LT	8				
9	8:00 AM	5:00 PM	8	LT	9				
10	8:00 AM	5:00 PM	8	LT	10	1:00 PM	9:00PM	8	LT
11					11	8:00 AM	5:00PM	8	LT
12					12	holiday	holiday	holiday	
13	1:00 PM	9:00 PM	8	LT	13	8:00 AM	5:00PM	8	LT
14	8:00 AM	5:00 PM	8	LT	14	8:00 AM	5:00PM	8	LT
15	8:00 AM	5:00 PM	8	LT	15				
16	8:00 AM	5:00 PM	8	LT	16				
17	8:00 AM	5:00 PM	8	LT	17	holiday	holiday	holiday	
18					18	8:00 AM	5:00PM	8	LT
19					19	8:00 AM	5:00PM	8	LT
20	1:00 PM	9:00 PM	8	LT	20	8:00 AM	5:00PM	8	LT
21	8:00 AM	5:00PM	8	LT	21	8:00 AM	5:00PM	8	LT
22	8:00 AM	5:00 PM	8	LT	22				
23	8:00 AM	5:00 PM	8	LT	23				
24	8:00 AM	5:00 PM	8	LT	24	1:00 PM	9:00PM	8	LT
25					25	8:00 AM	5:00PM	8	LT
26					26	8:00 AM	5:00PM	8	LT
27	1:00 PM	9:00PM	8	LT	27	8:00 AM	5:00PM	8	LT
28	8:00 AM	5:00 PM	8	LT	28	8:00 AM	5:00PM	8	LT
29	8:00 AM	5:00 PM	8	LT	29				
30	8:00 AM	5:00 PM	8	LT	30				
31	8:00 AM	5:00 PM	8	LT	31				
VERIFIED BY									
Lex Tansiongco					2024, July 12				
Signature over printed name of Practicum Supervisor					Date				

* To be validated once a week by the Practicum Adviser/ Coordinator

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DAILY TIME RECORD*

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MONTH		July			MONTH				
DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS	DATE	TIME-IN	TIME-OUT	TOTAL HOURS	MGR/SPVSR INITIALS
1	1:00 PM	9:00 PM	8	LT	1				
2	8:00 AM	5:00 PM	8	LT	2				
3	8:00 AM	5:00 PM	8	LT	3				
4	8:00 AM	5:00 PM	8	LT	4				
5	8:00 AM	5:00 PM	8	LT	5				
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31					31				
VERIFIED BY									
Lex Tansiongco					2024, July 12				
Signature over printed name of Practicum Supervisor					Date				

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