



University  
of Windsor

**School of Computer Science**

**COMP8967-1-R-2024S - Internship Project 1 – Summer 2024**

**University of Windsor**

**Group - 26**

**Team Members**

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# Project Management Report: Requirement

## I. Which agile software development method did your team decide to use and why? (0-10)

**Chosen Method: Scrum**

### **Reason for Choosing Scrum:**

Scrum was selected due to its iterative approach, which allows for frequent reassessment and adaptation. This method promotes collaboration, accountability, and continuous improvement, aligning well with our project's dynamic requirements and the need for regular feedback and adjustments.

### **Why Scrum?**

1. Flexibility and Adaptability:
  - **Iterative Development:** Scrum's iterative approach allows the team to break down the project into manageable sprints, each resulting in a potentially shippable product increment. This makes it easier to adapt to changing requirements and priorities.
  - **Continuous Feedback:** Regular sprint reviews and retrospectives ensure that feedback is continuously incorporated into the development process, leading to improved product quality and alignment with stakeholder expectations.
2. Improved Collaboration and Communication:
  - **Daily Stand-ups:** These short, daily meetings help the team stay aligned, quickly address issues, and foster a sense of collective responsibility.
  - **Role Clarity:** Clearly defined roles (Product Owner, Scrum Master, Development Team) ensure that responsibilities are well understood, enhancing coordination and accountability.
3. Enhanced Transparency:
  - **Visibility of Progress:** Scrum artifacts such as the Sprint Backlog and Burndown Chart provide clear visibility into the team's progress, making it easier to identify bottlenecks and address them proactively.
  - **Stakeholder Engagement:** Regular sprint reviews involve stakeholders, ensuring their continuous engagement and satisfaction with the product development.

4. Focus on Delivering Value:
  - **Prioritisation:** The Product Backlog is continuously refined and prioritized, ensuring that the team is always working on the most valuable features.

**Incremental Delivery:** Each sprint aims to deliver a potentially shippable product increment, ensuring that value is delivered early and often.

### **Why Not Other Methods?**

1. Waterfall:
  - **Rigidity:** The Waterfall method follows a linear and sequential approach, making it difficult to accommodate changes once the project is underway. This rigidity is unsuitable for projects like ours that require flexibility and iterative improvements.
  - **Delayed Feedback:** In Waterfall, feedback is typically gathered at the end of the project, which can lead to significant rework if issues are discovered late in the development process.
2. Kanban:
  - **Lack of Time-boxed Iterations:** While Kanban focuses on continuous delivery and optimizing workflow, it does not have fixed iterations or time-boxed sprints like Scrum. This can lead to challenges in managing time-sensitive tasks and deadlines.
  - **Less Structured Meetings:** Kanban does not emphasize structured meetings (e.g., daily stand-ups, sprint reviews) as much as Scrum, which may lead to less frequent communication and coordination.
3. Extreme Programming (XP):
  - **Intensive Practices:** XP includes practices like pair programming and test-driven development, which, while beneficial, may be too intensive for our current team dynamics and project requirements.
  - **Frequent Releases:** XP focuses on frequent releases, which might be challenging to manage without the structured sprint planning and review process that Scrum provides.
4. Lean:
  - **Focus on Waste Reduction:** Lean focuses on minimizing waste and maximizing value, which is highly beneficial but may not provide the structured framework and iterative approach that Scrum offers for managing complex software development projects.
  - **Less Emphasis on Roles:** Lean does not emphasize specific roles and ceremonies as Scrum does, which might lead to less clarity in responsibilities and processes

## **II. Scrum meetings:**

### **A. How frequently are scrum meetings conducted?**

Scrum meetings are conducted daily for 10 minutes. These meetings were conducted in person or online based on everyone's availability.

**B. (Date | Meeting Minutes or documentation attached?) (0-10)**

June 1, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

Tasks Completed:

- Sundhar Kaleeswaran: Modified changes in the main table.
  - Saravanan Chandrasekaran: Designed the complete backend framework and endpoints like register, login, logout endpoints along with JWT tokens.
  - Sundar Rathinavel: Fixed issues with login API.
  - Rakul Vimala Manokaran: Resolved merge conflicts and added signup/login features.
  - Jivin Varghese Porthukaran: Refactored backend API handling.
  - Hayden Cordeiro: Added initial design for main table and left navigation components.
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June 2, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Created initial design of MainTable Component.
    - Saravanan Chandrasekaran: Implemented the JWT token endpoint and also designed the base MySQL connector for backend APIs.
    - Sundar Rathinavel: Fixed UI bugs.
    - Rakul Vimala Manokaran: Added changes for standard Tailwind colors.
    - Jivin Varghese Porthukaran: Refactored backend code for better performance.
    - Hayden Cordeiro: Integrated experience scraping and fixed UI components.
- 

June 3, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Modified main table with delete and select all functionalities.

- Saravanan Chandrasekaran: Started working on the LLM models and also the UI changes for the contacts component.
  - Sundar Rathinavel: Worked on frontend UI fixes.
  - Rakul Vimala Manokaran: Added topnav base component.
  - Jivin Varghese Porthukaran: Refactored backend code and added new APIs.
  - Hayden Cordeiro: Fixed issues with frontend and backend integration.
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June 4, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Integrated frontend UI with backend APIs.
    - Saravanan Chandrasekaran: Worked on backend optimizations.
    - Sundar Rathinavel: Debugged and fixed frontend issues.
    - Rakul Vimala Manokaran: Resolved build errors.
    - Jivin Varghese Porthukaran: Improved backend API response handling.
    - Hayden Cordeiro: Updated frontend components.
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June 5, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Added changes for frontend components.
    - Saravanan Chandrasekaran: Worked on backend API improvements.
    - Sundar Rathinavel: Fixed UI issues in the frontend.
    - Rakul Vimala Manokaran: Updated frontend components.
    - Jivin Varghese Porthukaran: Refactored backend code for better performance.
    - Hayden Cordeiro: Updated frontend layout and fixed bugs.
- 

June 6, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Worked on main table functionalities.
  - Saravanan Chandrasekaran: Improved backend API responses.
  - Sundar Rathinavel: Fixed frontend issues.

- Rakul Vimala Manokaran: Added changes for backend integration.
- Jivin Varghese Porthukaran: Refactored backend logic.
- Hayden Cordeiro: Worked on frontend layout and integration.

June 7, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Updated main table and left navigation components with improved styling.
    - Saravanan Chandrasekaran: Worked on backend integration and fixed API issues, added OpenAI LLM.
    - Sundar Rathinavel: Debugged and resolved frontend issues.
    - Rakul Vimala Manokaran: Fixed UI issues and improved styling.
    - Jivin Varghese Porthukaran: Improved backend performance and refactored code.
    - Hayden Cordeiro: Worked on frontend layout and integration, fixed issues with module exports.
  - Commits:
    - Multiple commits related to main table updates, backend integration, and frontend styling.
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June 8, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Modified text-gray to defined Tailwind class and made color changes in the main table.
  - Saravanan Chandrasekaran: Created custom contact card in the main table to add members and added the LLM context and queries.
  - Sundar Rathinavel: Updated User table and registration endpoint, added jwt token.
  - Rakul Vimala Manokaran: Added signup and login feature, resolved merge conflicts.
  - Jivin Varghese Porthukaran: Created connection and contact experience tables, mocked APIs.
  - Hayden Cordeiro: Made changes to backend APIs, fixed login issues, and integrated experience scraping.

June 9, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Modified the main table with added functionalities.
  - Saravanan Chandrasekaran: Fixed issues with backend APIs and integrated register and login API with frontend.
  - Sundar Rathinavel: Debugged frontend issues and worked on API integration.
  - Rakul Vimala Manokaran: Fixed frontend build errors.
  - Jivin Varghese Porthukaran: Debugged backend issues and improved API response handling.
  - Hayden Cordeiro: Fixed issues with Chrome extension, updated main table and sidenav bar height.

June 10, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Modified maintable with delete and select all functionalities.
    - Saravanan Chandrasekaran: Updated the HOST with SSL fullchain.pem and private pem file.
    - Sundar Rathinavel: Added port in the app.run.
    - Rakul Vimala Manokaran: Added feature for forgot password and changed the button borders.
    - Jivin Varghese Porthukaran: Created connection and contact experience tables.
    - Hayden Cordeiro: Setting default working dir, updated deploy, updated node version.
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June 11, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Modified maintable fixing to screen size and CSS styles.
  - Saravanan Chandrasekaran: Integrated register and login API with frontend.
  - Sundar Rathinavel: Worked on API and frontend integration.
  - Rakul Vimala Manokaran: Changes done for build errors.

- Jivin Varghese Porthukaran: Refactored code and debugged post issue experience.
  - Hayden Cordeiro: Updated get method, changes for logged-in user.
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June 12, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Created API and major integrations.
    - Saravanan Chandrasekaran: Conducted major merges and pull requests.
    - Sundar Rathinavel: Worked on login endpoint and user list retrieval.
    - Rakul Vimala Manokaran: Provided updates on frontend integrations.
    - Jivin Varghese Porthukaran: Debugged and refactored backend code.
    - Hayden Cordeiro: Worked on main table and sidenav bar height fixes.
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June 13, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Worked on API integration and frontend functionalities.
    - Saravanan Chandrasekaran: Completed the LLM API and also updated UI components.
    - Sundar Rathinavel: Integrated API with frontend.
    - Rakul Vimala Manokaran: Made necessary changes to notes component.
    - Jivin Varghese Porthukaran: Updated connection table and mocked APIs.
    - Hayden Cordeiro: Updated tsconfig.json, fixed contact image issues.
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June 14, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Continued work on main table functionalities.
  - Saravanan Chandrasekaran: Focused on backend API improvements.
  - Sundar Rathinavel: Debugged and improved frontend components.
  - Rakul Vimala Manokaran: Resolved frontend build issues.
  - Jivin Varghese Porthukaran: Refactored code for better API handling.



- Hayden Cordeiro: Updated deployment configurations.
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June 15, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Modified API responses.
    - Saravanan Chandrasekaran: Worked on frontend integration for contacts.
    - Sundar Rathinavel: Improved API endpoints.
    - Rakul Vimala Manokaran: Fixed CSS issues.
    - Jivin Varghese Porthukaran: Updated backend to handle new features.
    - Hayden Cordeiro: Made final changes to deployment scripts.
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June 16, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Handling edge cases for Chrome extension.
    - Saravanan Chandrasekaran: Finalizing API integrations.
    - Sundar Rathinavel: Debugged Chrome extension issues.
    - Rakul Vimala Manokaran: Added changes for company logo handling.
    - Jivin Varghese Porthukaran: Refactored backend code for better performance.
    - Hayden Cordeiro: Merged branches and fixed UI bugs.
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June 17, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Continued work on frontend components.
    - Saravanan Chandrasekaran: Improved backend data processing.
    - Sundar Rathinavel: Fixed frontend bugs.
    - Rakul Vimala Manokaran: Fixed minor frontend issues.
    - Jivin Varghese Porthukaran: Enhanced backend API responses.
    - Hayden Cordeiro: Updated frontend layout.
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June 18, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Completed major API integrations.
    - Saravanan Chandrasekaran: Worked on backend optimizations.
    - Sundar Rathinavel: Finalized frontend changes.
    - Rakul Vimala Manokaran: Added final touches to frontend components.
    - Jivin Varghese Porthukaran: Debugged and fixed backend issues.
    - Hayden Cordeiro: Finalized deployment configurations.
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June 19, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
    - Sundhar Kaleeswaran: Improved frontend UI.
    - Saravanan Chandrasekaran: Enhanced API response handling, integrated the UI and BE for the chatbot component.
    - Sundar Rathinavel: Completed UI fixes for frontend components.
    - Rakul Vimala Manokaran: Fixed final bugs in the frontend.
    - Jivin Varghese Porthukaran: Refactored backend code and improved API endpoints.
    - Hayden Cordeiro: Updated deployment scripts for production.
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June 20, 2024

Attendees: Sundhar Kaleeswaran, Saravanan Chandrasekaran, Sundar Rathinavel, Rakul Vimala Manokaran, Jivin Varghese Porthukaran, Hayden Cordeiro

- Tasks Completed:
  - Sundhar Kaleeswaran: Conducted final code review and testing.
  - Saravanan Chandrasekaran: Completed the Chatbot integration for the LLM model.
  - Sundar Rathinavel: Completed integration testing for frontend components.
  - Rakul Vimala Manokaran: Completed all frontend changes and conducted testing.
  - Jivin Varghese Porthukaran: Conducted final testing and debugging of backend code.
  - Hayden Cordeiro: Prepared the application for production release.

### III. The goal for each of the past sprints/iterations. (0-25)

#### **Sprint Goal:**

The primary goal of the last sprint was to enhance the UI and implement core features for user interactions. This involved adding the ability to add and delete contacts, integrating a notes feature, and incorporating company logo integration into the application.

#### **Accomplishments:**

##### **UI Enhancements:**

- **Improved Overall Design:**
  - Enhanced the overall UI design to ensure a better user experience.
  - Polished frontend components to align with the new design specifications, making the interface more intuitive and visually appealing.

##### **Contact Management:**

- **Add Contact Functionality:**
  - Implemented the ability for users to add new contacts through the frontend, streamlining the process of managing professional connections.
  - Developed backend endpoints to handle the addition of new contacts, ensuring data integrity and seamless integration with the frontend.
- **Delete Contact Functionality:**
  - Enabled users to delete contacts from their list, providing them with greater control over their contact management.
  - Integrated backend functionality to support contact deletion, ensuring that the system accurately reflects user actions.

##### **Notes Feature:**

- **Integrated Notes:**
  - Added a feature allowing users to add and update notes for each contact, helping users keep track of important interactions and follow-up events.
  - Implemented backend support for storing and retrieving notes data, ensuring that all notes are securely saved and easily accessible.

##### **Company Logo Integration:**

- **Scrape and Display Logos:**
  - Added functionality to scrape and display company logos for contacts, enhancing the visual representation of contact information.
  - Ensured proper handling and display of logos in the UI, maintaining a consistent and professional appearance.

**Backend Improvements:**

- **Enhanced API Response Handling:**
  - Improved API response handling for better performance and reliability, ensuring that the application runs smoothly and efficiently.
  - Optimized data processing on the server side, reducing latency and enhancing the overall user experience.

**Testing and Debugging:**

- **Comprehensive Testing:**
  - Conducted thorough testing of all new features to ensure they function correctly and meet user requirements.
  - Debugged and fixed issues related to the integration of frontend and backend components, ensuring that all parts of the application work seamlessly together.

**Detailed Tasks and Timeline from the Start of June****Sprint 1 (June 1 - June 7, 2024)**

**Goal:** Initial setup and integration of project repositories and basic components.

**Accomplishments:**

- Set up the project repository with necessary configurations.
- Developed initial UI components including the contact table, card, and search bar.
- Implemented basic API endpoints for user registration and login.
- Integrated Chrome Extension for LinkedIn data extraction.

**Sprint 2 (June 8 - June 14, 2024)**

**Goal:** Implement user authentication and initial UI functionalities. **Accomplishments:**

- Created user registration and login APIs.
- Integrated these APIs with the frontend for seamless user authentication.
- Enhanced the main table component with features like filtering and sorting.
- Continued to improve the Chrome Extension, adding experience extraction capabilities.

**Sprint 3 (June 15 - June 21, 2024)**

**Goal:** Enhance UI and implement core features for user interactions. **Accomplishments:**

- **UI Enhancements:**
  - Improved overall UI design.
  - Updated and polished frontend components.
- **Contact Management:**
  - Implemented add contact functionality.
  - Enabled contact deletion.

- **Notes Feature:**
  - Added notes functionality for each contact.
  - Integrated backend support for notes.
- **Company Logo Integration:**
  - Added functionality to scrape and display company logos.
- **Backend Improvements:**
  - Enhanced API response handling.
  - Optimized data processing.
- **Testing and Debugging:**
  - Conducted comprehensive testing.
  - Debugged and fixed integration issues.

IV. What product backlog items are contributed toward the sprint/iteration goal along with (0-25)?

A. User stories should be written as the given template:

1. As a < type of user >, I want < some goal > so that < some reason >. (0-50)

Sprint number	ID	Task name	User story	Assignee
1	LEAD-1	Initial Product Pitch PPT	As a team member, I need to create the initial product pitch PPT so that the product can be presented effectively to stakeholders.	HAYDEN CORDEIRO
1	LEAD-2	IP-leadConnect-Requirement-Gathering	As a developer, I need to work on tech stack and also the server and infrastructures.	SARAVANAN CHANDRASEKARAN

1	LEAD-3	POC Chrome Extension	As a developer, I need to create the POC Chrome Extension so that the viability can be assessed.	HAYDEN CORDEIRO
1	LEAD-4	[ChromeExtension] - Full Name, Profile Picture, Location	As a user, I want to see my connections' full name, profile picture, and location so that I can easily recognize and remember them.	HAYDEN CORDEIRO
1	LEAD-5	Finalize Feature List for MVP	As a Project Manager, I want to finalize the feature list for Minimum Viable Product so that the System Requirements are clear and organized.	Jivin Varghese Porthukaran
1	LEAD-6	Develop rough prototype/UI based on feature list	As a user, I want a rough prototype/UI to see a basic version of the app with the main features so I can get a clear idea of how it will work.	Sundhar K
1	LEAD-7	Refactor Chrome Extension to log a single object	As a developer, I need to work on refactor chrome extension to log a single object so that communication across Restful APIs is efficient	HAYDEN CORDEIRO

1	LEAD-8	Design Schema for LinkedIn Experience	As a developer, I need to work on design schema for linkedin experience so that the code is easier to maintain.	HAYDEN CORDEIRO
1	LEAD-9	Setup Base React Project for Frontend with necessary dependencies	As a developer, I need to work on a setup base react project for frontend with necessary dependencies so that my team can start collaborating on the project.	HAYDEN CORDEIRO
1	LEAD-10	Develop Search Bar Component React	As a developer, I need to develop the search bar component at the top that gives better user attention, and users can search for specific contacts easily.	Rakul V M
1	LEAD-11	Develop Contact Table Card Component React	As a user, I want a contact table card in the app that allows me to easily view, organize, and manage all my contacts in one place to keep track of my contacts and make updates or changes.	Sundhar K
1	LEAD-12	Develop Table with Filter component React	From a user view I want a table with filter options that lets me easily sort and filter through the data helping me quickly find the specific information without scrolling through all the data manually.	Sundhar K

1	LEAD-13	Develop Side Nav component React	As a user, I want a side navigation menu to easily move between different sections. allowing me to find and access the features and information I need.	Sundhar K
1	LEAD-14	Develop the initial page layout and components React + Tailwind Color Setup	As a developer, I need to work on develop the initial page layout and components react + tailwind color setup so that my team can start collaborating without any blockers.	HAYDEN CORDEIRO
1	LEAD-15	Chrome Extension Experience Section Scraping	As a user I need to have access to data of past experience of individuals in my network so that I can find potential employees.	HAYDEN CORDEIRO
1	LEAD-16	Create Entire Profile Object To Sync Via API	As a developer, I need to work on creating an entire profile object to sync via api so that it's easy and efficient to handle updates on the backend and database.	HAYDEN CORDEIRO
1	LEAD-17	Chrome Extension -Get users current summary and location	As a user I need to have access to the location and summary of individuals in my network so that I can find individuals in a particular geographical region.	HAYDEN CORDEIRO



1	LEAD-18	Design and implement User Interface for the chrome extension	As a user I need to have access to an intuitive and well designed UI with great UX so that I can easily interact with the chrome extension	HAYDEN CORDEIRO
1	LEAD-19	BE - Implement user registration endpoint	As a new user I want to register for an account So that I can access the product's features.	Sundar R
1	LEAD-20	BE: Implement user login endpoint	As a registered user I want to log in to my account So that I can access my personal data and use the product's features.	Sundar R
1	LEAD-22	BE: Implement forgot password endpoint	As a developer, I need to work on be: implement forgot password endpoint so that the intended functionality is achieved.	Saravanan Chandrasekaran
1	LEAD-23	BE: Implement reset password endpoint	As a developer, I need to work on be: implement reset password endpoint so that the intended functionality is achieved.	Saravanan Chandrasekaran

1	LEAD-24	BE: Implement user logout endpoint	As a developer, I need to create an endpoint for user to securely log out of their accounts. This will help ensure their session ends properly and their information stays safe.	Sundhar K
1	LEAD-26	BE: Implement edit user endpoint	As a developer, I need to implement edit user endpoint so that, it can be integrated to edit profile option enabling the user to edit his/her profile information	Rakul V M
1	LEAD-27	Add SMTP server configuratio n	As a developer, I need to work on add smtp server configuration so that the intended functionality is achieved.	Saravanan Chandrasekaran
1	LEAD-28	Setup Apache config, and requiremen ts.txt	As a developer, I need to work on setup apache config, and requirements.txt so that the intended functionality is achieved.	Saravanan Chandrasekaran
1	LEAD-29	BE - Implement API to get profile from chrome extension	As a developer I need to implement an API to retrieve user profiles from the Chrome extension So that users can view and manage their profiles directly from the browser.	Sundar R

1	LEAD-30	Chrome Extension - Experience Extraction Fixes	As a user I need to have access to correct data of past experience of individuals in my network so that I can find potential customers.	HAYDEN CORDEIRO
1	LEAD-31	FE - Sign Up Page & Login Page	As a developer, I need to implement sign up page & login page so that the main part (registration & login) serves as a base for the user to access the application	Rakul V M
1	LEAD-32	BE - POST API for chrome extension	As a user, I want to save all user connection details so that all my connection's data gets saved in the database.	Jivin Varghese Porthukaran
1	LEAD-33	FE - Personal Notes Component	As a developer, I need to implement notes storage on front-end so that users can store and access important information easily.	Rakul V M
1	LEAD-34	Purchase and configure the domain	As a developer, I need to work on purchase and configure the domain so that the intended functionality is achieved.	Saravanan Chandrasekaran

1	LEAD-35	Purchase Digital Ocean 1GB RAM and 10GB disk Ubuntu server	As a developer, I need to work on purchase digital ocean 1gb ram and 10gb disk ubuntu server so that the intended functionality is achieved.	Saravanan Chandrasekaran
1	LEAD-38	Add Let's Encrypt SSL certificate to the domain	As a developer, I need to work on add let's encrypt ssl certificate to the domain so that the intended functionality is achieved.	Saravanan Chandrasekaran
1	LEAD-40	Database Design	As a developer, I want to work on database design so that the storing data is achieved.	Jivin Varghese Porthukaran
1	LEAD-41	UI Refactor and Fixes	As a developer, I need to work on ui refactor and fixes so that the technical debt is minimized	HAYDEN CORDEIRO
1	LEAD-42	Data Base Queries and Models	As a developer, I want to work on data base queries and models so that program can access and read data.	Jivin Varghese Porthukaran
1	LEAD-43	Login JWT Fix	As a developer, I need to work on login jwt fix so that the user is able to login correctly.	HAYDEN CORDEIRO

1	LEAD-44	Token based login Chrome Extension	As a user, I should be able to login into the Chrome Extension so that I can securely log in and access my data.	HAYDEN CORDEIRO
1	LEAD-45	FE - deployment	As a user I would require access to the web app so that I can have easy access to my network.	HAYDEN CORDEIRO
1	LEAD-46	AutoDeploy Frontend on pr merge	As a developer, I need to work on auto deploy frontend on pr merge so that changes are reflected as soon as they are merged.	HAYDEN CORDEIRO
1	LEAD-47	Develop Forgot Password Component FE side	As a developer, I need to work on develop forgot password component on both ends so that, we're providing option for users to revisit our sites without any inconveniences	Rakul V M
1	LEAD-48	API integration for Signup and Signin	As a developer, I need to work on api integration for signup and signin so that the intended functionality is achieved.	Sundar R

1	LEAD-49	Logout Component FE and BE side	As a developer, I need to work on logout component both ends so that the user can logout from the app as needed	Rakul V M
1	LEAD-50	EditUser FE & BE component	As a developer, I need to work on edituser both ends and integrate them, to help them update profile info as needed	Rakul V M
2	LEAD-51	Frontend Bug Fixes	As a developer, I need to work on frontend bug fixes so that the user experience is seamless for the end user.	HAYDEN CORDEIRO
2	LEAD-52	Create an API to fetch all the information about all the contacts of a user	As a developer, I need to work on create an api to fetch all the information about all the contacts of a user so that the intended functionality is achieved.	Sundar R
2	LEAD-53	Integrate the contacts API with the Frontend	As a developer I need to integrate the contacts API with the frontend So that users can view and manage their contact information through the user interface.	Sundar R

2	LEAD-56	Scrape Company Logo URLs chrome Extension + backend	As a user, I need to visualise my network experience so that I can make informed decisions and decide my potential customers.	HAYDEN CORDEIRO
2	LEAD-57	Delete Contact (Backend + integration with frontend)	As a user, I want to delete contacts from my network so that I can manage my connections more effectively.	HAYDEN CORDEIRO
2	LEAD-58	Contact indepth information component [Frontend + integration with the endpoint]	As a developer, I need to work on contact indepth information component [frontend + integration with the endpoint] provides indepth information about a specific profile.	Rakul V M
2	LEAD-59	Notes (Store data backend + integration with frontend)	As a user, I need a way to easily store and access important information by adding notes, so I can keep track of key details and retrieve them whenever needed.	Sundhar K

2	LEAD-60	Prompt Based Message (Backend + Frontend)	As a developer, I need to develop prompt based messaging (backend + frontend) so that users can send messages based on specific prompts.	Saravanan Chandrasekaran
2	LEAD-61	Reminders (based on time set) (Backend + frontend)	As a registered user I need reminders feature, So that I won't miss important events or tasks.	Sundar R
2	LEAD-62	Contextual Search ( Backend + frontend)	As a developer, I need to implement contextual search (backend + frontend) so that the user can get the contact's specific profile information based on search term and matches would be fetches	Rakul V M
2	LEAD-63	Exception When No experience Chrome Extension	As a user, I need exceptions to be handled when there is no experience data in the Chrome Extension so that the application remains stable.	HAYDEN CORDEIRO



## V. Tasks for each user story. (0-25)

User story ID	Task name	Task elaboration	Assignee
LEAD-1	Initial Product Pitch PPT	<ul style="list-style-type: none"> <li>• Create a PowerPoint presentation outlining the initial product pitch.</li> <li>• Present key features and value proposition to stakeholders.</li> </ul>	HAYDEN CORDEIRO
LEAD-2	IP-leadConnect-Requirement-Gathering	<ul style="list-style-type: none"> <li>• Gather and document the project requirements for IP-leadConnect.</li> <li>• Ensure all necessary features and functionalities are identified.</li> </ul>	SARAVANAN CHANDRASEKARAN
LEAD-3	POC Chrome Extension	<ul style="list-style-type: none"> <li>• Develop a proof-of-concept Chrome extension.</li> <li>• Demonstrate basic functionalities and capabilities.</li> </ul>	HAYDEN CORDEIRO
LEAD-4	[ChromeExtension] - Full Name, Profile Picture, Location	<ul style="list-style-type: none"> <li>• Implement features to capture full name, profile picture, and location.</li> <li>• Display the captured information accurately in the Chrome extension.</li> </ul>	HAYDEN CORDEIRO

LEAD-5	Finalize Feature List for MVP	<ul style="list-style-type: none"> <li>• Determine and finalize the list of features for the Minimum Viable Product (MVP).</li> <li>• Prioritize features based on their importance and feasibility.</li> </ul>	Jivin Varghese Porthukaran
LEAD-6	Develop rough prototype/ UI based on feature list	<ul style="list-style-type: none"> <li>• Create a rough prototype and user interface based on the feature list.</li> <li>• Ensure the prototype reflects the planned functionalities.</li> </ul>	Sundhar K
LEAD-7	Refactor Chrome Extension to log a single object	<ul style="list-style-type: none"> <li>• Refactor the Chrome extension to log data as a single object.</li> <li>• Improve code efficiency and data handling.</li> </ul>	HAYDEN CORDEIRO
LEAD-8	Design Schema for LinkedIn Experience	<ul style="list-style-type: none"> <li>• Design the database schema to store LinkedIn experience data.</li> <li>• Ensure the schema supports all necessary fields and relationships.</li> </ul>	HAYDEN CORDEIRO
LEAD-9	Setup Base React Project for Frontend with necessary dependencies	<ul style="list-style-type: none"> <li>• Set up the base React project for the frontend.</li> <li>• Include all necessary dependencies for development.</li> </ul>	HAYDEN CORDEIRO
LEAD-10	Develop Search Bar Component React	<ul style="list-style-type: none"> <li>• Develop a search bar component using React.</li> <li>• Enable users to search for specific items easily.</li> </ul>	Rakul V M

LEAD-11	Develop Contact Table Card Component React	<ul style="list-style-type: none"> <li>• Create a contact table card component using React.</li> <li>• Display contact information in an organized manner.</li> </ul>	Sundhar K
LEAD-12	Develop Table with Filter component React	<ul style="list-style-type: none"> <li>• Implement a table with filter capabilities using React.</li> <li>• Allow users to filter and sort data conveniently.</li> </ul>	Sundhar K
LEAD-13	Develop Side Nav component React	<ul style="list-style-type: none"> <li>• Develop a side navigation component using React.</li> <li>• Enhance application navigation and usability.</li> </ul>	Sundhar K
LEAD-14	Develop the initial page layout and components React + Tailwind Color Setup	<ul style="list-style-type: none"> <li>• Create the initial page layout using React.</li> <li>• Set up Tailwind CSS for consistent color theming.</li> </ul>	HAYDEN CORDEIRO
LEAD-15	Chrome Extension Experience Section Scraping	<ul style="list-style-type: none"> <li>• Implement scraping of experience sections from LinkedIn profiles.</li> <li>• Extract and display relevant experience data accurately.</li> </ul>	HAYDEN CORDEIRO
LEAD-16	Create Entire Profile Object To Sync Via API	<ul style="list-style-type: none"> <li>• Develop functionality to create a complete profile object.</li> <li>• Sync the profile object via API for consistent data.</li> </ul>	HAYDEN CORDEIRO

LEAD-17	Chrome Extension -Get users current summary and location	<ul style="list-style-type: none"> <li>• Implement features to capture the user's current summary and location.</li> <li>• Display the captured information accurately in the Chrome extension.</li> </ul>	HAYDEN CORDEIRO
LEAD-18	Design and implement User Interface for the chrome extension	<ul style="list-style-type: none"> <li>• Design the user interface for the Chrome extension.</li> <li>• Implement the designed UI to enhance user experience.</li> </ul>	HAYDEN CORDEIRO
LEAD-19	BE - Implement user registration endpoint	<ul style="list-style-type: none"> <li>• Develop the backend endpoint for user registration.</li> <li>• Ensure secure handling of user data during registration.</li> </ul>	Sundar R
LEAD-20	BE: Implement user login endpoint	<ul style="list-style-type: none"> <li>• Create the backend endpoint for user login functionality.</li> <li>• Ensure secure authentication of user credentials.</li> <li>• Ensure JWT token is created</li> </ul>	Sundar R
LEAD-22	BE: Implement forgot password endpoint	<ul style="list-style-type: none"> <li>• Implement the backend endpoint for the 'forgot password' functionality.</li> <li>• Enable users to reset their passwords securely.</li> </ul>	Saravanan Chandrasekaran
LEAD-23	BE: Implement reset password endpoint	<ul style="list-style-type: none"> <li>• Develop the backend endpoint for resetting user passwords.</li> <li>• Ensure secure and smooth password reset process.</li> </ul>	Saravanan Chandrasekaran

LEAD-24	BE: Implement user logout endpoint	<ul style="list-style-type: none"> <li>• Implement the backend endpoint to handle user logout.</li> <li>• Ensure proper session termination and security.</li> </ul>	Sundhar K
LEAD-26	BE: Implement edit user endpoint	<ul style="list-style-type: none"> <li>• Create the backend endpoint to edit user details.</li> <li>• Enable users to update their profile information.</li> </ul>	Rakul V M
LEAD-27	Add SMTP server configuration	<ul style="list-style-type: none"> <li>• Configure the SMTP server for sending emails.</li> <li>• Ensure reliable and secure email delivery.</li> </ul>	Saravanan Chandrasekaran
LEAD-28	Setup Apache config, and requirements.t xt	<ul style="list-style-type: none"> <li>• Set up Apache configuration for the application.</li> <li>• Create the requirements.txt file for dependencies.</li> </ul>	Saravanan Chandrasekaran
LEAD-29	BE - Implement API to get profile from chrome extension	<ul style="list-style-type: none"> <li>• Develop the backend API to retrieve user profiles from the Chrome extension.</li> <li>• Ensure accurate and secure data transfer.</li> </ul>	Sundar R
LEAD-30	Chrome Extension - Experience Extraction Fixes	<ul style="list-style-type: none"> <li>• Fix issues related to extracting experience data in the Chrome extension.</li> <li>• Ensure accurate extraction and display of experience data.</li> </ul>	HAYDEN CORDEIRO
LEAD-31	FE - Sign Up Page & Login Page	<ul style="list-style-type: none"> <li>• Create the frontend sign-up and login pages.</li> <li>• Ensure user-friendly design and secure authentication.</li> </ul>	Rakul V M

LEAD-32	BE - POST API for chrome extension	<ul style="list-style-type: none"> <li>• Implement the backend POST API for the Chrome extension.</li> <li>• Enable secure data submission from the extension.</li> </ul>	Jivin Varghese Porthukaran
LEAD-33	FE - Personal Notes Component	<ul style="list-style-type: none"> <li>• Develop a personal notes component in the frontend.</li> <li>• Allow users to create, edit, and manage personal notes.</li> </ul>	Rakul V M
LEAD-34	Purchase and configure the domain	<ul style="list-style-type: none"> <li>• Purchase a domain for the application.</li> <li>• Configure the domain for proper routing and security.</li> </ul>	Saravanan Chandrasekaran
LEAD-35	Purchase Digital Ocean 1GB RAM and 10GB disk Ubuntu server	<ul style="list-style-type: none"> <li>• Purchase a Digital Ocean server with 1GB RAM and 10GB disk space.</li> <li>• Set up the server with Ubuntu for hosting the application.</li> </ul>	Saravanan Chandrasekaran
LEAD-38	Add Let's Encrypt SSL certificate to the domain	<ul style="list-style-type: none"> <li>• Add and configure a Let's Encrypt SSL certificate for the domain.</li> <li>• Ensure secure communication through HTTPS.</li> </ul>	Saravanan Chandrasekaran
LEAD-40	Database Design	<ul style="list-style-type: none"> <li>• Design the database schema for the application.</li> <li>• Ensure the schema supports all necessary features and functionalities.</li> </ul>	Jivin Varghese Porthukaran

LEAD-41	UI Refactor and Fixes	<ul style="list-style-type: none"><li>• Refactor the user interface for improved performance.</li><li>• Fix any existing UI issues and enhance usability.</li></ul>	HAYDEN CORDEIRO
LEAD-42	Data Base Queries and Models	<ul style="list-style-type: none"><li>• Create and optimize database queries and models.</li><li>• Ensure efficient data retrieval and storage.</li></ul>	Jivin Varghese Porthukaran
LEAD-43	Login JWT Fix	<ul style="list-style-type: none"><li>• Fix issues related to JWT-based login.</li><li>• Ensure secure and seamless authentication.</li></ul>	HAYDEN CORDEIRO
LEAD-44	Token based login Chrome Extension	<ul style="list-style-type: none"><li>• Implement token-based login for the Chrome extension.</li><li>• Enhance security and user experience during login.</li></ul>	HAYDEN CORDEIRO
LEAD-45	FE - deployment	<ul style="list-style-type: none"><li>• Deploy the frontend application to a production environment.</li><li>• Ensure the deployment process is smooth and error-free.</li></ul>	HAYDEN CORDEIRO
LEAD-46	AutoDeploy Frontend on pr merge	<ul style="list-style-type: none"><li>• Set up automatic deployment of the frontend on pull request merge.</li><li>• Ensure continuous integration and deployment.</li></ul>	HAYDEN CORDEIRO

LEAD-47	Develop Forgot Password Component FE side	<ul style="list-style-type: none"><li>• Create the frontend component for the 'forgot password' functionality.</li><li>• Enable users to reset their passwords from the frontend.</li></ul>	Rakul V M
LEAD-48	API integration for Signup and Signin	<ul style="list-style-type: none"><li>• Integrate the signup and signin APIs with the frontend.</li><li>• Ensure seamless user registration and login experience.</li></ul>	Sundar R
LEAD-49	Logout Component FE and BE side	<ul style="list-style-type: none"><li>• Develop the logout functionality on both frontend and backend sides.</li><li>• Ensure secure and proper session termination.</li></ul>	Rakul V M
LEAD-50	EditUser FE & BE component	<ul style="list-style-type: none"><li>• Create the frontend and backend components for editing user details.</li><li>• Enable users to update their profile information securely.</li></ul>	Rakul V M
LEAD-51	Frontend Bug Fixes	<ul style="list-style-type: none"><li>• Fix the overflow of the main table div causing vertical scrolling</li><li>• Highlight currently selected contact</li><li>• Adjust the sidebar height according to the page height.</li></ul>	HAYDEN CORDEIRO
LEAD-52	Create an API to fetch all the information about all the contacts of a user	<ul style="list-style-type: none"><li>• Identify the user who has logged in</li><li>• To get all the connections of the users</li><li>• All the information of the contacts obtained including the experience</li></ul>	Sundar R



LEAD-53	Integrate the contacts API with the Frontend	<ul style="list-style-type: none"><li>• Display the connections of the user who has signed in</li><li>• Pass this data from the app to other child components</li></ul>	Sundar R
LEAD-56	Scrape Company Logo URLs chrome Extension + backend	<ul style="list-style-type: none"><li>• Identify the companies in a particular contacts experience.</li><li>• Loop through the locators</li><li>• Update the profile object</li><li>• Make changes in the backend api and database to store this additional data.</li></ul>	HAYDEN CORDEIRO
LEAD-57	Delete Contact (Backend + integration with frontend)	<ul style="list-style-type: none"><li>• Get primary key of contact in the UI</li><li>• Develop a function that on click in the UI sends this primary key to the backend with the necessary details.</li><li>• Develop a Rest API to accept this request and delete the appropriate contact.</li></ul>	HAYDEN CORDEIRO
LEAD-58	Contact indepth information component [Frontend + integration with the endpoint]	<ul style="list-style-type: none"><li>• Develop a component in UI Side, to showcase the user with the info for a specific contact.</li><li>• Fetch the information from the Contacts table from the DB to show the indepth info about a specific contact</li></ul>	Rakul V M

LEAD-59	Notes (Store data backend + integration with frontend)	<ul style="list-style-type: none"> <li>• Add a 'notes' column to the database, update API endpoints in routes.py for CRUD operations, and create a notes model in models.py.</li> <li>• Integrate input and display fields for notes in app.tsx, implement API calls in the maintable component to save and fetch notes, and manage the notes state.</li> </ul>	Sundhar K
LEAD-60	Prompt Based Message (Backend + Frontend)	<ul style="list-style-type: none"> <li>• As a developer create a chatbot with LLM feature</li> <li>• On clicking the chat icon for the contact contextualise the chatbot with profile data and generate customised messages</li> </ul>	Saravanan Chandrasekaran
LEAD-61 u is	Reminders (based on time set) (Backend + frontend)	<ul style="list-style-type: none"> <li>• Identify the user who has signed in</li> <li>• Get all the user's connection that the user has to message</li> <li>• Send an email to remind the user</li> </ul>	Sundar R
LEAD-62	Contextual Search ( Backend + frontend)	<ul style="list-style-type: none"> <li>• Develop a frontend to showcase the search to user</li> <li>• Develop LLM functionality to get users specific to a search term</li> </ul>	Rakul V M

LEAD-63	Exception When No experience Chrome Extension	<ul style="list-style-type: none"> <li>Identify cases of when the extension was breaking for experience section</li> <li>Handle exception by checking for undefined locators</li> </ul>	HAYDEN CORDEIRO
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## VI. Estimated value of story points/velocity. (0-25)

Sprint number	ID	Task	Assignee	Story Point
1	LEAD-1	Initial Product Pitch PPT	HAYDEN CORDEIRO	0.5
1	LEAD-2	IP-leadConnect-Requirement-Gathering	Sundar R	0.2
1	LEAD-3	POC Chrome Extension	HAYDEN CORDEIRO	0.3
1	LEAD-4	[ChromeExtension] - Full Name, Profile Picture, Location	HAYDEN CORDEIRO	
1	LEAD-5	Finalize Feature List for MVP	Jivin Varghese	0.3
1	LEAD-6	Develop rough prototype/ UI based on feature list	Sundhar K	0.3
1	LEAD-7	Refactor Chrome Extension to log a single object	HAYDEN CORDEIRO	0.7
1	LEAD-8	Design Schema for LinkedIn Experience	HAYDEN CORDEIRO	0.2
1	LEAD-9	Setup Base React Project for Frontend with necessary dependencies	HAYDEN CORDEIRO	0.1
1	LEAD-10	Develop Search Bar Component React	Rakul V M	0.3
1	LEAD-11	Develop Contact Table Card Component React	Sundhar K	0.6

1	LEAD-12	Develop Table with Filter component React	Sundhar K	0.3
1	LEAD-13	Develop Side Nav component React	Sundhar K	0.7
1	LEAD-14	Develop the initial page layout and components React + Tailwind Color Setup	HAYDEN CORDEIRO	0.1
1	LEAD-15	Chrome Extension Experience Section Scraping	HAYDEN CORDEIRO	0.1
1	LEAD-16	Create Entire Profile Object To Sync Via API	HAYDEN CORDEIRO	0.1
1	LEAD-17	Chrome Extension -Get users current summary and location	HAYDEN CORDEIRO	0.1
1	LEAD-18	Design and implement User Interface for the chrome extension	HAYDEN CORDEIRO	0.1
1	LEAD-19	BE - Implement user registration endpoint	Sundar R	0.3
1	LEAD-20	BE: Implement user login endpoint	Sundar R	0.3
1	LEAD-22	BE: Implement forgot password endpoint	Saravanan Chandrasekaran	0.3
1	LEAD-23	BE: Implement reset password endpoint	Saravanan Chandrasekaran	0.3
1	LEAD-24	BE: Implement user logout endpoint	Sundhar K	0.3
1	LEAD-26	BE: Implement edit user endpoint	Rakul V M	0.5
1	LEAD-27	Add SMTP server configuration	Saravanan Chandrasekaran	0.8

1	LEAD-28	Setup Apache config, and requirements.txt	Saravanan Chandrasekaran	0.8
1	LEAD-29	BE - Implement API to get profile from chrome extension	Sundar R	0.3
1	LEAD-30	Chrome Extension - Experience Extraction Fixes	HAYDEN CORDEIRO	
1	LEAD-31	FE - Sign Up Page & Login Page	Rakul V M	1
1	LEAD-32	BE - POST API for chrome extension	Jivin Varghese Porthukaran	1
1	LEAD-33	FE - Personal Notes Component	Rakul V M	0.3
1	LEAD-34	Purchase and configure the domain	Saravanan Chandrasekaran	0.3
1	LEAD-35	Purchase Digital Ocean 1GB RAM and 10GB disk Ubuntu server	Saravanan Chandrasekaran	0.7
1	LEAD-38	Add Let's Encrypt SSL certificate to the domain	Saravanan Chandrasekaran	0.6
1	LEAD-40	Database Design	Jivin Varghese	0.5
1	LEAD-41	UI Refactor and Fixes	HAYDEN CORDEIRO	0.1
1	LEAD-42	Data Base Queries and Models	Jivin Varghese	0.7
1	LEAD-43	Login JWT Fix	HAYDEN CORDEIRO	0.1
1	LEAD-44	Token based login Chrome Extension	HAYDEN CORDEIRO	0.3
1	LEAD-45	FE - deployment	HAYDEN CORDEIRO	0.1

1	LEAD-46	AutoDeploy Frontend on pr merge	HAYDEN CORDEIRO	0.1
1	LEAD-47	Develop Forgot Password Component FE side	Rakul V M	0.7
1	LEAD-48	API integration for Signup and Signin	Sundar R	0.3
1	LEAD-49	Logout Component FE and BE side	Rakul V M	0.5
1	LEAD-50	EditUser FE & BE component	Rakul V M	0.8
2	LEAD-51	Frontend Bug Fixes	HAYDEN CORDEIRO	
2	LEAD-52	Create an API to fetch all the information about all the contacts of a user	Sundar R	0.4
2	LEAD-53	Integrate the contacts API with the Frontend	Sundar R	0.2
2	LEAD-56	Scrape Company Logo URLs chrome Extension + backend	HAYDEN CORDEIRO	0.1
2	LEAD-57	Delete Contact (Backend + integration with frontend)	HAYDEN CORDEIRO	0.1
2	LEAD-58	Contact indepth information component [Frontend + integration with the endpoint]	Rakul V M	2
2	LEAD-59	Notes (Store data backend + integration with frontend)	Sundhar K	0.3
2	LEAD-60	Prompt Based Message (Backend + Frontend)	Saravanan Chandrasekaran	2
2	LEAD-61	Reminders (based on time set) (Backend + frontend)	Sundar R	0.7
2	LEAD-62	Contextual Search ( Backend + frontend)	Rakul V M	2
2	LEAD-63	Exception When No experience Chrome Extension	HAYDEN CORDEIRO	0.1

## VII. Identified Risks and mitigation plan. (0-25)

### Risk Assessment Table for LeadConnect Project

Risk Name	Risk Description	Risk Type	Possible Controls	Metrics to Track
<b>Data Privacy Breach</b>	Unauthorized access to sensitive user data due to security vulnerabilities.	Technological	Implement strong encryption, regular security audits, and access controls.	Number of security breaches reported.
<b>Technology Failure</b>	Outages or malfunctions in the AI system, leading to service disruptions.	Technological	Redundancy systems, regular maintenance, and robust error handling protocols.	System uptime and error rates.
<b>Integration Issues</b>	Challenges in integrating with LinkedIn or other platforms, impacting functionality.	Technological	Use of well-documented APIs, continuous integration testing.	Integration success rate, API error logs.
<b>Market Fit Uncertainty</b>	The product may not meet the expectations or solve the problems of the target audience.	Market	Market research, ongoing user feedback, and agile development.	Customer satisfaction and retention rates.
<b>User Adoption</b>	Difficulty in convincing target users to switch from existing solutions or adopt a new solution.	Operational	Strategic marketing, user training programs, and competitive pricing.	Number of active users, growth rate.
<b>Regulatory Compliance</b>	Failure to comply with local or international regulations regarding data use and business operations.	Legal	Regular legal reviews, compliance audits, and hiring of compliance specialists.	Number of compliance issues handled.

<b>Dependency Risks</b>	Over-reliance on LinkedIn platform which might change its API or terms of use.	Strategic	Develop contingency plans and diversify integration options.	Dependency ratio on LinkedIn.
<b>Talent Acquisition</b>	Difficulty in hiring or retaining skilled personnel to develop and maintain the product.	Operational	Competitive salaries, benefits, and fostering a positive work culture.	Employee turnover rate and hiring speed.
<b>Cost Overruns</b>	Project expenses exceeding budget due to unforeseen development costs.	Financial	Regular financial auditing, phased development, and strict budget controls.	Budget variance and financial metrics.
<b>Scalability Issues</b>	Challenges in scaling the system to handle growth in users or data load.	Technological	Cloud-based solutions, scalable architecture, and load testing.	Response times and transaction volumes.
<b>Brand Reputation Risk</b>	Negative publicity due to product issues or customer dissatisfaction impacting brand trust.	Reputational	Active public relations management and swift resolution of customer issues.	Media mentions and brand sentiment analysis.



## VIII. How does the team divide the tasks among members? (0-10)

### A. Sundhar Kaleeswaran:

1. **Primary Role:** Focuses on frontend development.
2. **Additional Role:** Takes part in backend development when necessary.

### B. Saravanan Chandrasekaran:

1. **Primary Role:** Specializes in backend development and AI/LLM integration. Leading the team and performing server and infra setups.
2. **Additional Role:** Developing the chatbot UI and Assists with frontend tasks as required.

### C. Sundar Rathinavel:

1. **Primary Role:** Versatile, works on both backend and frontend tasks.
2. **Additional Role:** Adjusts role based on task requirements, ensuring flexibility.

### D. Rakul Vimala Manokaran:

1. **Primary Role:** Primarily involved in frontend development.
2. **Additional Role:** Assists Saravanan with AI/LLM integration tasks.

### E. Jivin Varghese Porthukaran:

1. **Primary Role:** Dedicated to backend development.

### F. Hayden Cordeiro:

1. **Primary Role:** Works on frontend development.
2. **Additional Role:** Focuses on developing technology for Chrome extensions.

## Task Division Strategy

**1. Sprint Planning:** During sprint planning meetings, we review the product backlog and prioritize tasks based on the project goals and deadlines. Each team member picks tasks that align with their expertise and interest, ensuring efficient progress.

**2. Flexibility and Collaboration:** Team members are encouraged to collaborate and assist each other. For instance, if there is a backlog of frontend tasks, backend developers like Jivin and Saravanan may pitch in, and vice versa. This cross-functional approach enhances team synergy and knowledge sharing.

**3. Ownership and Accountability:** Each member takes ownership of the tasks they select, with a clear understanding of the deliverables and deadlines. This fosters a sense of accountability and ensures that everyone is focused on contributing to the team's success.

**4. Daily Stand-ups:** Daily stand-up meetings help us track progress, discuss challenges, and reallocate tasks if needed. This agile practice ensures that we remain adaptable and responsive to any changes or issues that arise during the sprint.

**5. Retrospectives:** After each sprint, we conduct retrospectives to evaluate what went well and what can be improved. Feedback from these sessions helps refine our task division and collaboration methods for future sprints.

In summary, our task division strategy is built on the principles of agile methodology, emphasizing flexibility, collaboration, and continuous improvement. This approach allows us to leverage each team member's strengths effectively while fostering a collaborative and supportive work environment.

For more detailed insights on creating an inspiring and effective environment for agile teams, you can refer to the "Agile Leadership Toolkit" which provides practical tools and examples to enhance team collaboration and ownership .

## IX. The number of hours taken to complete each task.

Sprint number	ID	Task	Assignee	Hours Spent
1	LEAD-1	Initial Product Pitch PPT	HAYDEN CORDEIRO	4
1	LEAD-2	IP-leadConnect-Requirement-Gathering	Sundar R	2
1	LEAD-3	POC Chrome Extension	HAYDEN CORDEIRO	3
1	LEAD-4	[ChromeExtension] - Full Name, Profile Picture, Location	HAYDEN CORDEIRO	6
1	LEAD-5	Finalize Feature List for MVP	Jivin Varghese	3
1	LEAD-6	Develop rough prototype/ UI based on feature list	Sundhar K	3
1	LEAD-7	Refactor Chrome Extension to log a single object	HAYDEN CORDEIRO	6
1	LEAD-8	Design Schema for LinkedIn Experience	HAYDEN CORDEIRO	2
1	LEAD-9	Setup Base React Project for Frontend with necessary dependencies	HAYDEN CORDEIRO	1

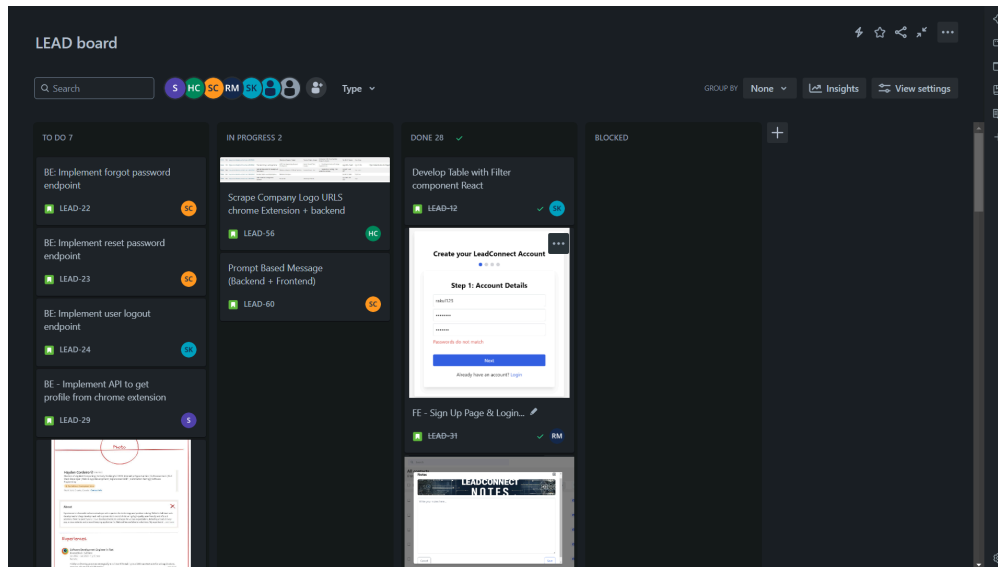
1	LEAD-10	Develop Search Bar Component React	Rakul V M	2
1	LEAD-11	Develop Contact Table Card Component React	Sundhar K	5
1	LEAD-12	Develop Table with Filter component React	Sundhar K	3
1	LEAD-13	Develop Side Nav component React	Sundhar K	6
1	LEAD-14	Develop the initial page layout and components React + Tailwind Color Setup	HAYDEN CORDEIRO	0.5
1	LEAD-15	Chrome Extension Experience Section Scraping	HAYDEN CORDEIRO	1
1	LEAD-16	Create Entire Profile Object To Sync Via API	HAYDEN CORDEIRO	0.5
1	LEAD-17	Chrome Extension -Get users current summary and location	HAYDEN CORDEIRO	1
1	LEAD-18	Design and implement User Interface for the chrome extension	HAYDEN CORDEIRO	0.5
1	LEAD-19	BE - Implement user registration endpoint	Sundar R	3
1	LEAD-20	BE: Implement user login endpoint	Sundar R	3
1	LEAD-22	BE: Implement forgot password endpoint	Saravanan Chandrasekaran	5
1	LEAD-23	BE: Implement reset password endpoint	Saravanan Chandrasekaran	5
1	LEAD-24	BE: Implement user logout endpoint	Sundhar K	3
1	LEAD-26	BE: Implement edit user endpoint	Rakul V M	3

1	LEAD-27	Add SMTP server configuration	Saravanan Chandrasekaran	4
1	LEAD-28	Setup Apache config, and requirements.txt	Saravanan Chandrasekaran	4
1	LEAD-29	BE - Implement API to get profile from chrome extension	Sundar R	3
1	LEAD-30	Chrome Extension - Experience Extraction Fixes	HAYDEN CORDEIRO	
1	LEAD-31	FE - Sign Up Page & Login Page	Rakul V M	7
1	LEAD-32	BE - POST API for chrome extension	Jivin Varghese Porthukaran	8
1	LEAD-33	FE - Personal Notes Component	Rakul V M	3
1	LEAD-34	Purchase and configure the domain	Saravanan Chandrasekaran	2
1	LEAD-35	Purchase Digital Ocean 1GB RAM and 10GB disk Ubuntu server	Saravanan Chandrasekaran	2
1	LEAD-38	Add Let's Encrypt SSL certificate to the domain	Saravanan Chandrasekaran	3
1	LEAD-40	Database Design	Jivin Varghese	4
1	LEAD-41	UI Refactor and Fixes	HAYDEN CORDEIRO	0.5
1	LEAD-42	Data Base Queries and Models	Jivin Varghese	6
1	LEAD-43	Login JWT Fix	HAYDEN CORDEIRO	0.5

1	LEAD-44	Token based login Chrome Extension	HAYDEN CORDEIRO	3
1	LEAD-45	FE - deployment	HAYDEN CORDEIRO	1
1	LEAD-46	AutoDeploy Frontend on pr merge	HAYDEN CORDEIRO	1
1	LEAD-47	Develop Forgot Password Component FE side	Rakul V M	4
1	LEAD-48	API integration for Signup and Signin	Sundar R	3
1	LEAD-49	Logout Component FE and BE side	Rakul V M	5
1	LEAD-50	EditUser FE & BE component	Rakul V M	6
2	LEAD-51	Frontend Bug Fixes	HAYDEN CORDEIRO	1
2	LEAD-52	Create an API to fetch all the information about all the contacts of a user	Sundar R	4
2	LEAD-53	Integrate the contacts API with the Frontend	Sundar R	2
2	LEAD-56	Scrape Company Logo URLs chrome Extension + backend	HAYDEN CORDEIRO	1
2	LEAD-57	Delete Contact (Backend + integration with frontend)	HAYDEN CORDEIRO	1
2	LEAD-58	Contact indepth information component [Frontend + integration with the endpoint]	Rakul V M	8
2	LEAD-59	Notes (Store data backend + integration with frontend)	Sundhar K	3
2	LEAD-60	Prompt Based Message (Backend + Frontend)	Saravanan Chandrasekaran	12

2	LEAD-61	Reminders (based on time set) (Backend + frontend)	Sundar R	7
2	LEAD-62	Contextual Search ( Backend + frontend)	Rakul V M	8
2	LEAD-63	Exception When No experience Chrome Extension	HAYDEN CORDEIRO	0.5

## A. And a Screenshot of your task management board. (0-10)



<https://leadconnect.atlassian.net/jira/software/projects/LEAD/boards/1>

## X. The contribution of each member so far for each iteration/sprint. (0-10)

## Sprint 1

## Hayden Cordeiro

- **Initial Product Pitch PPT**
  - Create a PowerPoint presentation outlining the initial product pitch.
  - Present key features and value proposition to stakeholders.
- **POC Chrome Extension**
  - Develop a proof-of-concept Chrome extension.
  - Demonstrate basic functionalities and capabilities.
- **[ChromeExtension] - Full Name, Profile Picture, Location**
  - Implement features to capture full name, profile picture, and location.
  - Display the captured information accurately in the Chrome extension.
- **Refactor Chrome Extension to log a single object**
  - Refactor the Chrome extension to log data as a single object.
  - Improve code efficiency and data handling.
- **Design Schema for LinkedIn Experience**
  - Design the database schema to store LinkedIn experience data.
  - Ensure the schema supports all necessary fields and relationships.
- **Setup Base React Project for Frontend with necessary dependencies**
  - Set up the base React project for the frontend.

- Include all necessary dependencies for development.
- **Develop the initial page layout and components React + Tailwind Color Setup**
  - Create the initial page layout using React.
  - Set up Tailwind CSS for consistent color theming.
- **Chrome Extension Experience Section Scraping**
  - Implement scraping of experience sections from LinkedIn profiles.
  - Extract and display relevant experience data accurately.
- **Create Entire Profile Object To Sync Via API**
  - Develop functionality to create a complete profile object.
  - Sync the profile object via API for consistent data.
- **Chrome Extension - Get users current summary and location**
  - Implement features to capture the user's current summary and location.
  - Display the captured information accurately in the Chrome extension.
- **Design and implement User Interface for the chrome extension**
  - Design the user interface for the Chrome extension.
  - Implement the designed UI to enhance user experience.
- **Chrome Extension - Experience Extraction Fixes**
  - Fix issues related to extracting experience data in the Chrome extension.
  - Ensure accurate extraction and display of experience data.
- **UI Refactor and Fixes**
  - Refactor the user interface for improved performance.
  - Fix any existing UI issues and enhance usability.
- **Login JWT Fix**
  - Fix issues related to JWT-based login.
  - Ensure secure and seamless authentication.
- **Token based login Chrome Extension**
  - Implement token-based login for the Chrome extension.
  - Enhance security and user experience during login.
- **FE - deployment**
  - Deploy the frontend application to a production environment.
  - Ensure the deployment process is smooth and error-free.
- **AutoDeploy Frontend on pr merge**
  - Set up automatic deployment of the frontend on pull request merge.
  - Ensure continuous integration and smooth deployment process.

### Rakul Vimala Manokaran

- **EditUser FE & BE component**
  - Develop the frontend and backend components for editing user details.
  - Enable users to update their profile information securely.
- **Logout Component FE and BE side**
  - Develop the logout functionality on both frontend and backend sides.
  - Ensure secure and proper session termination.
- **Develop Forgot Password Component FE side**
  - Create the frontend component for the "forgot password" functionality.
  - Enable users to reset their passwords from the frontend.



- **FE - Personal Notes Component**
  - Develop a personal notes component in the frontend.
  - Allow users to create, edit, and manage personal notes.
- **FE - Sign Up Page & Login Page**
  - Create the frontend sign-up and login pages.
  - Ensure user-friendly design and secure authentication.
- **BE: Implement edit user endpoint**
  - Create the backend endpoint to edit user details.
  - Enable users to update their profile information.
- **Develop Search Bar Component React**
  - Develop a search bar component using React.
  - Enable users to search for specific items easily.

### Jivin Varghese Porthukaran

- **Data Base Queries and Models**
  - Create and optimize database queries and models.
  - Ensure efficient data retrieval and storage.
- **Database Design**
  - Design the database schema for the application.
  - Ensure the schema supports all necessary features and functionalities.
- **Finalize Feature List for MVP**
  - Determine and finalize the list of features for the Minimum Viable Product (MVP).
  - Prioritize features based on their importance and feasibility.

### Saravanan Chandrasekaran

- **Developed LLM chatbot both Backend and frontend**
  - Developed a chatbot with LLM feature and OpenAI
  - On clicking the chat icon for the contact contextualise the chatbot with profile data and generate customised messages
- **Add Let's Encrypt SSL certificate to the domain**
  - Add and configure a Let's Encrypt SSL certificate for the domain.
  - Ensure secure communication through HTTPS.
- **Purchase Digital Ocean 1GB RAM and 10GB disk Ubuntu server**
  - Purchase a Digital Ocean server with 1GB RAM and 10GB disk space.
  - Set up the server with Ubuntu for hosting the application.
- **Purchase and configure the domain**
  - Purchase a domain for the application.
  - Configure the domain for proper routing and security.
- **Setup Apache config, and requirements.txt**
  - Set up Apache configuration for the application.
  - Create the requirements.txt file for dependencies.
- **Add SMTP server configuration**
  - Configure the SMTP server for sending emails.
  - Ensure reliable and secure email delivery.

- **BE: Implement reset password endpoint**
  - Develop the backend endpoint for resetting user passwords.
  - Ensure secure and smooth password reset process.
- **BE: Implement forgot password endpoint**
  - Implement the backend endpoint for the "forgot password" functionality.
  - Enable users to reset their passwords securely.

#### **Sundhar Kaleeswaran**

- **BE: Implement user logout endpoint**
  - Implement the backend endpoint to handle user logout.
  - Ensure proper session termination and security.
- **Develop Side Nav component React**
  - Develop a side navigation component using React.
  - Enhance application navigation and usability.
- **Develop Table with Filter component React**
  - Implement a table with filter capabilities using React.
  - Allow users to filter and sort data conveniently.
- **Develop Contact Table Card Component React**
  - Create a contact table card component using React.
  - Display contact information in an organized manner.
- **Develop rough prototype/ UI based on feature list**
  - Create a rough prototype and user interface based on the feature list.
  - Ensure the prototype reflects the planned functionalities.

#### **Sundar Rathinavel**

- **API integration for Signup and Signin**
  - Integrate the signup and signin APIs with the frontend.
  - Ensure seamless user registration and login experience.
- **BE - Implement API to get profile from chrome extension**
  - Develop the backend API to retrieve user profiles from the Chrome extension.
  - Ensure accurate and secure data transfer.
- **BE - Implement JWT token**
  - Create JWT token when the user sign in
  - Use the JWT for all the endpoints except registration
- **BE: Implement user login endpoint**
  - Create the backend endpoint for user login functionality.
  - Ensure secure authentication of user credentials.
- **BE - Implement user registration endpoint**
  - Develop the backend endpoint for user registration.
  - Ensure secure handling of user data during registration.

**Sprint 2:****Hayden Cordeiro**

- **Exception When No experience Chrome Extension**
  - Handle edge cases where no experience data is available in the Chrome extension.
  - Ensure smooth operation and user experience.
- **Delete Contact (Backend + integration with frontend)**
  - Implement the functionality to delete contacts in the backend.
  - Integrate this feature with the frontend for user interaction.
- **Scrape Company Logo URLs chrome Extension + backend**
  - Implement scraping of company logos in the Chrome extension.
  - Ensure the scraped logos are stored and displayed correctly.
- **Frontend Bug Fixes**
  - Identify and fix bugs in the frontend application.
  - Ensure a smooth and error-free user experience.

**Rakul Vimala Manokaran**

- **Contextual Search (Backend + frontend)**
  - Implement contextual search functionality on both backend and frontend.
  - Ensure users receive relevant search results based on context.
- **Contact indepth information component [Frontend + integration with the endpoint]**
  - Create a frontend component to display detailed information about a contact.
  - Integrate this component with the backend endpoint for comprehensive data display.

**Saravanan Chandrasekaran**

- **Prompt Based Message (Backend + Frontend)**
  - Develop prompt-based messaging functionality on both backend and frontend.
  - Ensure users can send messages based on specific prompts.

**Sundar Rathinavel**

- **Email notifications for all users to send messages**
  - Implement functionality to send email notifications to all users.
  - Ensure timely and reliable message delivery through email.
- **Integrate the contacts API with the Frontend**
  - Connect the newly created contacts API with the frontend application.
  - Ensure seamless data flow and proper display of contact information.
- **Create an API to fetch all the information about all the contacts of a user**
  - Develop an API endpoint to retrieve all contact information for a user.
  - Ensure secure and efficient data retrieval.

**Sundhar Kaleeswaran**

- **Notes (Store data backend + integration with frontend)**
  - Implement backend functionality to store notes.
  - Integrate this feature with the frontend for user access and management.

### Jivin Varghese Porthukaran

- **BE - POST API for chrome extension**
  - Implement the backend POST API for the Chrome extension.
  - Enable secure data submission from the extension.

## XI. Discussion on what went well, what went poorly, and opportunities for improvement to the product or 'shipped' process. (0-20)

### Sprint Retrospective for June 16, 2024

#### Sprint Summary

**Sprint Duration: June 1, 2024 - June 15, 2024**

**Sprint Review Date: June 16, 2024**

#### Team Retrospective Table

Team Member	What went well	What did not go well	Opportunities for improvement
<b>Sundhar Kaleeswaran</b>	<p>Completion of the important frontend UI pages:</p> <p>Main Table Card Component, LeftsideNav component and keepInTouch page to display, add, modify and delete user details received from linkedin</p>	Notes component took longer than expected during endpoint creation and integration.	Analyzed the linking points carefully and modularized each functions for easy working.

	integration along with personalized notes.		
Saravanan Chandrasekaran	<p>Lead the team and completed the chatbot LLM integration for both UI and backend. Server setup and infra setup.</p> <p>Server - MySQL, Apache, Phpmyadmin, Python, OpenAI, SMTP</p> <p>UI - Chatbot, Axios, LLM chat integration</p>	Saravanan got BurnOut because of server, LLM, Back End setups. But successfully completed the task and provided KT on code setup to others.	Lead and delegate tasks based on the priority and avoid burnout. Provide more detailed KT to the team on the LLM chatbot integration.
Sundar Rathinavel	Completed the user registration and login endpoint	API integration with the Frontend took longer than anticipated due to unforeseen complexities	Create more detailed API documentation and consider organising frontend-backend sync meetings
Rakul Vimala Manokaran	Finished the Search Bar Component and made good progress on the Sign Up & Login Pages	EditUser FE & BE component and Logout Component are still in progress	Focus on one task at a time to improve completion rate and communicate more to achieve smooth integration with backend side for functionality.
Jivin Varghese Porthukaran	Successfully completed Database Queries and Models.	Had to revisit database design to normalize table, since multiple tables had to be access for fetching data.	Since designing backend need to communicate with all team members on how the data is going to be updated in the database.

<b>Hayden Cordeiro</b>	<p>Designed and developed the initial chrome extension to extract data and send it to the backend.</p> <p>Successfully setup the frontend with tailwind and type script.</p> <p>Successfully setup deployment of the frontend</p>	<p>Experience</p> <p>Extraction took very long because of multiple use cases.</p> <p>Frontend deployment broke frequently due to typescript issues.</p>	<p>Should have done a more thorough case analysis before starting developing the chrome extension experience extraction feature.</p> <p>Adding a linter before pre commit to prevent typescript issues from entering the master branch</p>
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## XII. What is your team's plan for the upcoming weeks? (0-10)

### Upcoming Tasks with Detailed Elaboration and Ideas

#### 1. Notes Feature

**Goal:** Allow users to add, update, and view notes for each contact. **Details:**

- **Frontend:** Add a note icon next to each contact.
  - When clicked, a modal or a sidebar opens to display existing notes.
  - A text area for adding or updating notes.
- **Backend:**
  - **Fetch Notes:** Create an API to fetch notes for a specific contact from the database.
  - **Update Notes:** Create an API to update notes for a contact.
  - **Database:** Ensure the notes are stored in a structured format with timestamps and user identifiers.

#### Enhancements:

- **Search Notes:** Add a search functionality within notes to quickly find specific follow-up events.
- **Tagging System:** Implement tags for notes to categorize follow-up events (e.g., "Meeting", "Email", "Call").
- **Rich Text Editor:** Use a rich text editor to allow formatting in notes.

#### 2. Reminder Feature

**Goal:** Enable users to set reminders and receive email notifications. **Details:**

- **Email API:** Integrate a free email API (e.g., SendGrid, Mailgun).
  - **Domain Configuration:** Configure the domain to authorize sending emails.
  - **Email API:** Create an API endpoint to schedule and send emails.
- **Reminder Setup:**
  - **UI:** Add a reminder option next to each contact.
  - **Form:** Users can set the date, time, and message for the reminder.
- **Notification:** Ensure reminders trigger email notifications at the specified time.

#### Enhancements:

- **SMS Notifications:** Integrate an SMS API to provide text message reminders.
- **In-App Notifications:** Implement in-app notifications to alert users within the application.
- **Recurring Reminders:** Allow users to set recurring reminders (e.g., weekly, monthly).

#### 3. LLM Integration

**Goal:** Utilize OpenAI's API to generate contextualized messages for user interactions. **Details:**

- **API Purchase:** Purchase and set up OpenAI API.
- **Python Wrapper:** Create a Python wrapper function to interface with the OpenAI API.
- **Chatbot UI:**
  - **UI Element:** Add a chatbot icon that, when clicked, opens a chat window.
  - **Contextualization:** Fetch relevant data from the database to contextualize the chatbot responses.
- **Message Generation:** Use contextualized data to generate personalized messages (e.g., follow-up emails, greetings).

## Enhanced Plan for Implementation

1. **Notes Feature:**
  - **Design:** Create wireframes for the notes modal/sidebar.
  - **Development:**
    - **Frontend:** Implement the modal/sidebar and integrate it with the existing contact list.
    - **Backend:** Develop the APIs to handle fetching and updating notes.
    - **Testing:** Conduct thorough testing to ensure notes are saved and retrieved correctly.
2. **Reminder Feature:**
  - **Design:** Outline the user flow for setting reminders and receiving notifications.
  - **Development:**
    - **Email API Integration:** Configure the chosen email API.
    - **Frontend:** Create the reminder setting interface.
    - **Backend:** Develop APIs to handle reminder scheduling and email dispatch.
    - **Testing:** Test reminder creation, scheduling, and notification delivery.
3. **LLM Integration:**
  - **Design:** Create UI/UX designs for the chatbot interface.
  - **Development:**
    - **API Integration:** Set up the OpenAI API and develop the Python wrapper.
    - **Frontend:** Implement the chatbot interface and integrate it with the backend.
    - **Backend:** Fetch contextual data and use it to generate responses.
    - **Testing:** Ensure the chatbot generates accurate and relevant messages based on context.

## Epic: Deployment of LeadConnect Updates

### Task 1: UI Deployment

**Summary:** Deploy the updated UI to the server. **Description:**

- Ensure the frontend codebase is up to date.



- Build the React application for production.
- Deploy the build to the server using Docker.

**Subtasks:**

1. **Fetch Latest Code:**
  - Pull the latest code from the repository.
2. **Build React App:**
  - Command: npm run build
3. **Deploy Using Docker:**
  - Create a Dockerfile for the frontend.
  - Build and run the Docker container.

**Task 2: Backend Deployment**

**Summary:** Deploy the updated backend services to the server. **Description:**

- Ensure the backend codebase is up to date.
- Build and deploy backend services using Docker.

**Subtasks:**

1. **Fetch Latest Code:**
  - Pull the latest code from the repository.
2. **Build and Deploy:**
  - Create a Dockerfile for the backend.
  - Build and run the Docker container.

**Task 3: Database Setup**

**Summary:** Set up and configure the MySQL database. **Description:**

- Install MySQL on the server.
- Configure the database and import necessary data.

**Subtasks:**

1. **Install MySQL:**
  - Command: sudo apt install mysql-server
2. **Configure MySQL:**
  - Set up user permissions and database schema.
  - Import existing data.

**Task 4: LLM OpenAI Code Deployment**

**Summary:** Deploy the LLM OpenAI code to the server. **Description:**

- Integrate the OpenAI API with the backend.

- Ensure the Python wrapper is functioning correctly.

**Subtasks:**

1. **Install Required Libraries:**
  - Command: pip install openai
2. **Configure API Keys:**
  - Set up environment variables for OpenAI API keys.
3. **Deploy Python Wrapper:**
  - Ensure the wrapper is included in the backend Dockerfile.

**Task 5: Docker Setup**

**Summary:** Set up Docker and Docker Compose for the entire application. **Description:**

- Create Dockerfiles for each service.
- Configure Docker Compose for multi-container deployment.

**Subtasks:**

1. **Install Docker:**
  - Command: sudo apt install docker.io
2. **Create Dockerfiles:**
  - Create separate Dockerfiles for frontend, backend, and other services.
3. **Configure Docker Compose:**
  - Create docker-compose.yml file.

**Task 6: Apache Installation**

**Summary:** Install and configure Apache for serving the application. **Description:**

- Install Apache on the server.
- Configure virtual hosts and SSL.

**Subtasks:**

1. **Install Apache:**
  - Command: sudo apt install apache2
2. **Configure Virtual Hosts:**
  - Set up virtual hosts for the application.
3. **Set Up SSL:**
  - Install and configure SSL using Let's Encrypt.

**User Stories for Deployment**

1. **As a DevOps Engineer**, I want to deploy the updated UI so that users can access the latest frontend features.

2. **As a DevOps Engineer**, I want to deploy the updated backend services so that the application functions with the latest backend logic.
3. **As a Database Administrator**, I want to set up and configure the MySQL database so that the application can store and retrieve data efficiently.
4. **As a DevOps Engineer**, I want to deploy the LLM OpenAI code so that users can generate contextualized messages.
5. **As a DevOps Engineer**, I want to set up Docker and Docker Compose so that the application can be deployed in a containerized environment.
6. **As a DevOps Engineer**, I want to install and configure Apache so that the application is served securely over HTTPS.

## Identified Risks and Mitigation Plan

- **Risk:** Downtime during deployment.
  - **Mitigation:** Perform deployments during off-peak hours and set up a maintenance window.
- **Risk:** Configuration errors.
  - **Mitigation:** Test configurations in a staging environment before production deployment.
- **Risk:** Security vulnerabilities.
  - **Mitigation:** Ensure all components are up to date and configure SSL.

This detailed task list can be imported into Jira to track progress and ensure all aspects of the deployment are covered.