

## **Sprint 4 Contributions Report**

**Name:** Marchelino Habchi

**Group:** X

**Sprint Number:** 4

**Total Time Spent:** 19 Hours

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### **1. Frontend Development (6 hours)**

During this sprint, I spent 6 hours working on improving and implementing the frontend of the project. Key activities included:

- Enhancing existing React components for better user experience and performance.
  - Refactoring reusable components to adhere to the DRY (Don't Repeat Yourself) principle, improving maintainability.
  - Adding interactivity using React state and props to ensure a smooth and dynamic interface.
  - Testing UI elements to ensure responsiveness across various screen sizes.
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### **2. Connecting Frontend to Backend (6 hours)**

A significant portion of my time was dedicated to integrating the frontend with the backend, ensuring seamless communication between the two layers. Tasks included:

- Implementing API calls in React to fetch and display data dynamically.
  - Managing asynchronous operations using `async/await` and handling potential errors gracefully.
  - Testing the connection endpoints and verifying the proper rendering of backend-provided data in the frontend.
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### **3. Debugging (3 hours)**

I dedicated 3 hours to troubleshooting and resolving issues that arose during the sprint. This included:

- Investigating and fixing UI/UX bugs in the React components.

- Debugging API calls and resolving issues related to incorrect data fetching or state updates.
  - Using Chrome Developer Tools and `console.log()` for debugging frontend issues.
  - Collaborating with team members to resolve blocking bugs affecting project progress.
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#### **4. Creating New HTML/CSS Pages in React (4 hours)**

I also created entirely new React pages with their respective HTML structure and CSS styling. Key efforts included:

- Designing and coding new React components to fit the project's requirements.
  - Writing custom CSS to achieve a visually appealing and responsive design.
  - Ensuring that the new pages followed the project's overall theme and design guidelines.
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#### **Summary**

##### **Sprint Focus:**

- Developing the frontend for new and existing features.
- Integrating the frontend and backend for seamless data interaction.
- Fixing critical bugs to ensure a functional product.
- Adding new React pages with fresh HTML/CSS designs.

##### **Challenges Faced:**

- Debugging API issues caused by incorrect request/response handling.
- Managing complex state across multiple components.
- Ensuring consistent styling across newly created pages.

##### **Outcome:**

- Delivered an improved and interactive frontend.
- Established a robust connection between the backend and frontend.

- Resolved critical issues and enhanced the project's functionality.