

**12 Feb 2024**

**Objective:** Successfully complete the development and launch of the research website.

**Tasks Completed:**

1. Developed frontend components for home, about, research, and logs pages.
2. Implemented responsive design for optimal viewing on both mobile and desktop devices.
3. Integrated internal arrays to replace APIs for fetching research materials and log data.
4. Implemented dynamic rendering of research materials and logs, ensuring real-time updates.
5. Conducted thorough testing and debugging to guarantee website functionality across various browsers.

**Live URL:** <https://thatonemhmd.github.io/research-insulin-dopamine/>

**Challenges Faced:**

1. Overcame CSS layout issues to maintain consistent design across different browsers.
2. Resolved conflicts related to retrieving and auto-displaying research data.
3. Addressed performance concerns during page rendering and data fetching processes.

**Next Steps:**

1. Content Finalization: Refine and polish content for the research and logs pages to ensure clarity, relevance, and accuracy.
2. Performance Enhancement: Optimize website performance through code optimization techniques and implementation of efficient caching mechanisms.
3. User Testing and Feedback: Conduct user testing sessions to gather valuable feedback for further enhancements and improvements.

**Future Development:**

1. Auto-Rendering of Most Recent Log: Implement an automated process to dynamically display the latest log entry on the home page's logs section, facilitating real-time updates and insights.
2. User Authentication and Authorization: Integrate user authentication and authorization mechanisms to regulate access to restricted materials.
3. Integration of 3rd Party Commentary Service: Incorporate a 3rd party commentary service to enable users to provide feedback and commentary on publicly available data.

**Conclusion:**

The development of the website progressed smoothly this week, achieving significant milestones in front-end implementation. Despite encountering challenges, proactive troubleshooting and collaboration facilitated the resolution of obstacles. Looking ahead, the focus will be on finalizing content and optimizing performance to deliver a seamless user experience. Additionally, the primary aim of the website is to facilitate transparent communication and dissemination of research information between the research team and supervisor, Dr. Mansur, a success whose effectiveness will be continuously evaluated and refined.