# **Data Collection Report**

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#### **Current Data Interaction Process**

The user experience in interacting with our platform, particularly regarding the login process and data input for plotting, has been analyzed to evaluate its efficiency and user friendliness. Our current system requires:

- **Login Process**: New users must complete 6 clicks to log into the website, while returning users complete this process in 3 clicks.
- Data Upload and Input:
  - Uploading an existing .csv file involves 3 clicks.
  - Manually entering data requires 6 clicks.
- Time Metrics:
  - New users take approximately 30 seconds to upload a .csv file.
  - Returning users can upload a .csv file in about 20 seconds.
  - Manual data entry (non-.csv) takes around 25 seconds for existing users and 35 seconds for new users.

These figures provide a baseline for our current system's performance in facilitating user interaction, specifically in the data upload and plotting preparation phases.

### **Identified Issues and Proposed Enhancements**

One significant area identified for improvement involves the handling of user data during the login or signup process. Currently, any error in the login or signup sequence results in the erasure of input data, requiring users to re-enter information. This not only hampers the user experience but also increases the time spent in the preliminary stages of interaction with our platform.

## **Proposed Solutions:**

- Persistent Data Entry: Implementing a feature that retains input data on the login and signup pages in the event of an error will significantly enhance user experience. This change aims to eliminate the need for multiple data entries, thereby reducing user frustration and the overall time spent during the login/signup phase.
- 2. Profile-Based Data Storage: Future updates will introduce the capability for users to save their data directly to their profiles. This advancement will allow returning users to bypass the data input stage for plotting, as their previously uploaded or manually entered data will be readily accessible. This feature is expected to dramatically decrease the time and number of interactions required for users to start the plotting process, fostering a more efficient and user-friendly platform.

### **Expected Outcomes:**

By addressing the current system's limitations and implementing the proposed enhancements, we anticipate a significant reduction in the time and effort required for users to engage with our platform, especially in the critical phases of login/signup and data input for plotting. These improvements are not only aimed at enhancing the overall user experience but also at increasing the efficiency and effectiveness of data handling within our system.

Through the integration of persistent data entry and profile-based data storage, we are poised to streamline our platform's operation, making it more accessible and convenient for users. These developments are expected to contribute positively to user satisfaction and platform usability, aligning with our commitment to continuous improvement and excellence in service delivery.