

Automated CQI



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1 Introduction: background, Motivation, Problem Statement

Continuous Quality Improvement (CQI) systems are widely used in higher education institutions to assess and improve the quality of education. University of Engineering and Technology has incorporated a system of elective subject registration and outcomes i.e., CLO, PLO, PEO, that can help administration predict if the quality of education is up to the mark or not.

The motivation for this project stems from the need to improve the quality of education by providing a user-friendly and convenient platform for data collection and analysis.

Inefficient, time-consuming and difficult to use traditional methods of collecting and analyzing student feedback data pose a challenge in higher education institutions, leading to delayed insights and decision-making. This highlights the need for a more optimized and user-friendly system that can facilitate efficient data collection, analysis, and visualization. Such a system will enable university administrators to gain insights into student experiences and make informed decisions to improve the quality of education.

2 Related Work

Related System	Weakness	Proposed Project Solution
Anthology [1]	It is a paid website which every user may not to use.	A free alternative would be beneficial.
Google Forms [2]	Does not provide visualization of data as it stored on Google sheet.	Data should be visualized and stored on our system i.e. in Excel format.
Survey Monkey [3]	It has non-interactive and non-appealing Survey forms.	A website providing interactive and appealing Survey forms.
Metrics for learning [4]	It is providing forms that are least customizable.	Attractive and fully customizable forms should be available to use.
Qualtrics [5]	This website consists of complex set of tools which some users may find difficult to use.	Website should have an easy to use and easy to understand set of tools for its user.

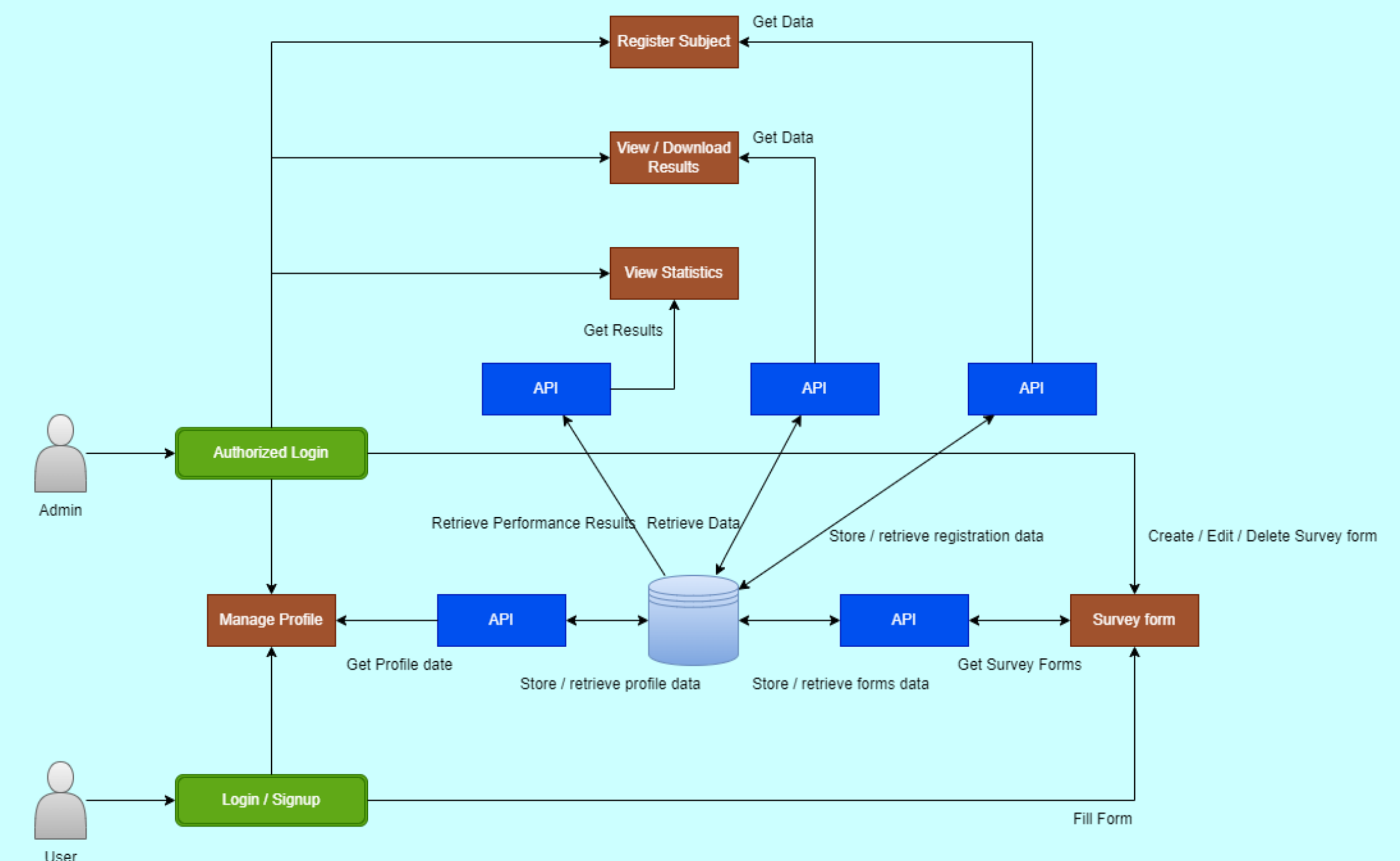
Objectives

- To provide an efficient system for registration of elective subjects.
- To provide an efficient, user friendly and quick system for conducting student surveys
- To provide insights obtained from the surveys in a usable and convenient format for further analysis
- To visualize the data in such manner that it is easy to comprehend and examine the change over time
- To enhance the overall quality of education by providing a platform for continuous quality improvement that maintains a record of Quality Enhancement over time

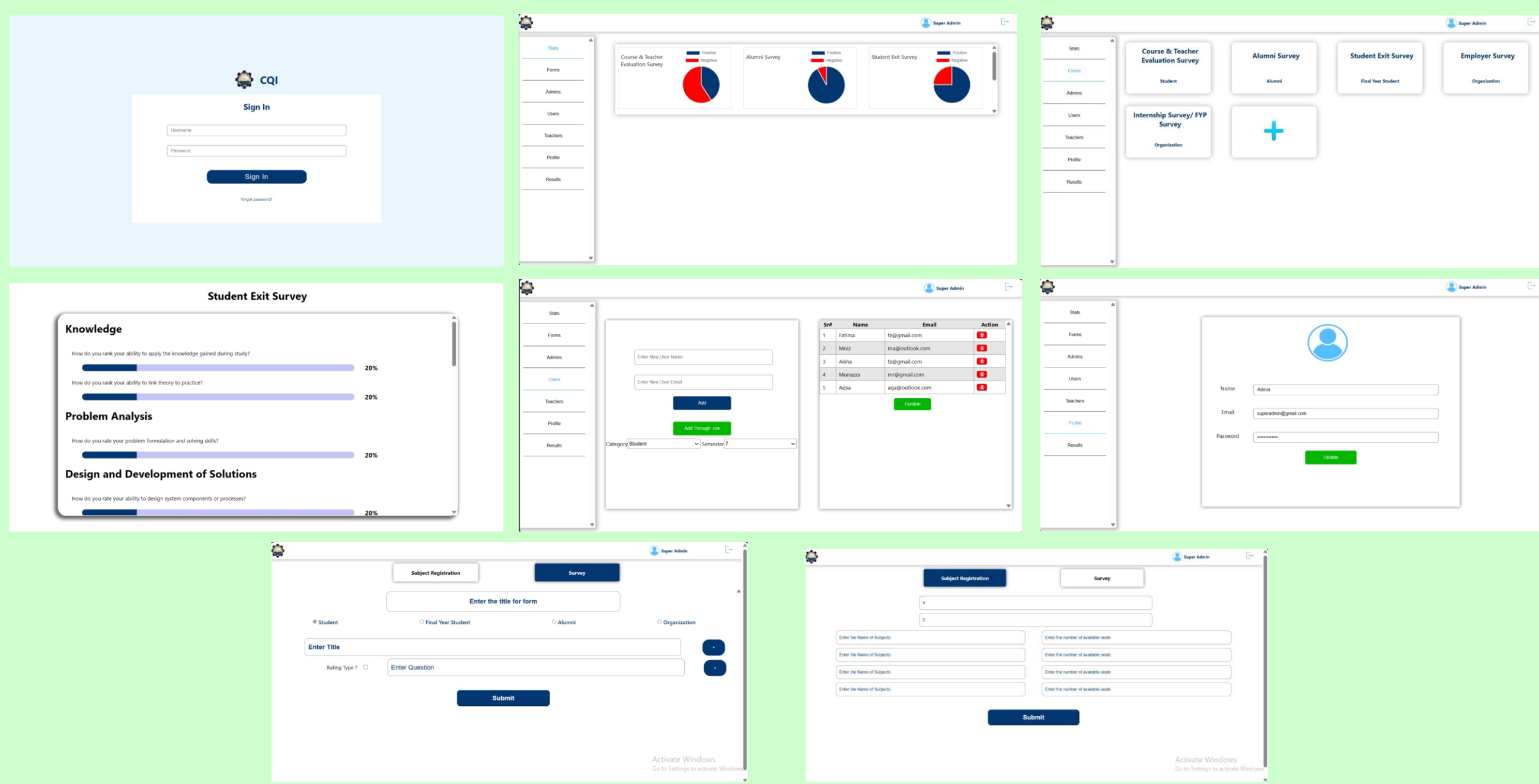
3 Features

- Login for Super Admin
- Verification of admin credentials
- Super Admin can add/remove Admins
- Super Admin can add/remove Students
- Super Admin can add/remove Teachers
- Admins can add/remove Students and Teachers
- Super Admin can make entries both by uploading .csv file or making an entry manually
- Super Admin and Admins can create subject registration forms
- Super Admin and Admins can create surveys
- Super Admin and Admins can edit surveys
- Super Admin and Admins can delete surveys
- Super Admin and Admins can view survey reports
- Super Admin and Admins can download survey reports in an Microsoft Excel file
- Students, teachers, alumni can view and fill their respective surveys
- Users will receive notification for form

4 System Architecture/ Approach/ System Design



5 Working Demo



Conclusion

The proposed system has the potential to be used by higher education institutions to improve the quality of education. It will provide a platform for efficient data collection, analysis, and visualization, enabling university administrators to gain insights into student experiences and make data-driven decisions to improve the quality of education.

References

- [1] Anthology. <https://www.campuslabs.com/campus-labs-platform/improvement-and-accountability/studies-and-instruments/> last accessed October 10, 2023
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- [5] Qualtrics. <https://www.qualtrics.com/> last accessed October 10, 2023
- [6] Json to csv. <https://www.npmjs.com/package/react-json-to-csv> last accessed November 10, 2023
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