# Rate My Teammate (ver.CWRU) Individual Report

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## 1 Project Responsibilities

As a group, we implement the web application by breaking it down to the database, front-end, and back-end. The database part was implemented by all of the team members. Due to time considerations, we split our team into front-end and back-end sub-teams.

As a member of the front-end sub-team, I individually completed the result page and form wrappers. To interact smoothly with the back-end, I also finished the connections between several pages and the back-end database.

Here are my major contributions:

- 1. Participated in the design and implementation of the database.
- 2. Wrote most of the code in the /UI folder which work as form wrapper. Completed the several .js files in the /Page Element folder, such as NavBar.js, RateIcon.js, searchResult.js, and LoginButton.js, SignupButton.js, AddStudentButtons.js. Additionally, I was responsible for the implementation of resultPage.js, participated in the implementation of SearchPage.js, and configured the data parameters passing between search, result, student, review, and submit correction pages.
- 3. Created and wrote the **API document** for the connection between front-end and back-end.
  - 4. Fixed minor bugs in the back-end code.

Finally, I appreciated Nora and Haihan's cooperation and help on frontend implementation and React-Spring Boot connection issues.

# 2 Achieving Objectives

Compared to the Java application I have done in the CSDS 395 class, this project is much more complicated and harder in the perspective of workload and implementation difficult level. In the previous project, I was only responsible for designing, implementing Java GUI, and allowing it to interact with Spring Boot back-end. Therefore, it is my first time coding in the JavaScript language and React platform. Fortunately, with the help of online education websites, such as Youtube and StackOverflow, I became more familiar with JavaScript, CSS, React, and Rest API. By integrating the knowledge learned from online resources, I finished the front-end part step by step and completed the major proposals with my teammates.

#### 3 Issues

The data parameters passing between different pages is the major problem I encountered in this project. Because of the lack of deep understanding of React, I stuck and wasted several days on not working data parameters passing method. By searching the state-of-art data transferring methods online and applying them in our project, I finally found an applicable method and solved the data parameters passing problem successfully.

Besides, during the process of fetching data from the back end, I realized we need to consider more thoroughly in writing the initial API document. The lack of thoroughness in writing the API document results the incomplete and useless implementations of some of the REST API.

#### 4 Lessons Learned

Through this project, I have a deeper understanding of JavaScript language, REST API, and React, Spring Boot platforms.

I also realized the importance of considering comprehensive in the initial stage of design. The thorough considerations will avoid many unnecessary efforts later.

Finally, I learned that communications between team members are pretty significant. The tasks should be assigned to each group member accordingly in the initial stage.

## 5 Insights

Overall, it is a pleasure to work with my teammates to implement this Rate My Teammate web application. Although we are not familiar with each other before and have a limited understanding of React and Spring boot platforms, we still cooperate well and deliver it in the manner which meets our expectations. From my perspective, the main objective of web application is useful. Like Rate My Professor, I hope this application can help some students who are looking for responsible teammates. Although there exist some possible improvements in this application, it is our first step to explore the world of software. We will design and implement more useful applications in the future career.