

## Criterion E: Evaluation

### **Evaluation of Criteria for Success**

\* ✓ = Fully Achieved, □ = Partially Achieved, x = Not Achieved

1. Allow the client to save and read all the input information.  
✓ Worked correctly in all test cases.
2. Upload Image of a passport page when a certain student is selected after automatic search of the directory folder with load of image files.  
□ Partially achieved; uploading image functions well in all test cases, however, automatic search of the image file is not achieved. Searching through the local directory is complex and time-consuming, and image is not the main functionality of the database the client has requested.
3. Data management for edit and remove input data  
✓ Worked correctly in all test cases. This change is successfully applied in the save files as well.
4. Login Page for the user  
x Not achieved as the client did not emphasize the necessity as it will be used only for him. This can be added any time in future versions.
5. A Pop-Up notification for any error, verification, or providing necessary information.  
□ Achieved in most test cases. Client suggestion: Add pop-up notification to check for the appropriateness of file format.
6. Search through the database to view every necessary information regarding visa  
✓ Worked correctly in all test cases.
7. All information with the exception of visa and passport number will be sorted in any order.  
✓ Worked correctly in all test cases.
8. Students will be filtered automatically if they need a Visa for travelling.  
✓ Worked correctly in all test cases.
9. Student sizes are expandable.  
✓ ArrayList was used. Worked correctly in all test cases.

## **Effectiveness (Feedback from the Client) / Discussion of Extensibility**

After the training took place and the client was able to give me feedback, we discussed how the program can be modified and expanded.

Running time was not an issue; however, the client has suggested further polishing of the program in terms of the user interface.<sup>1</sup> As mentioned in the evaluation of success criteria, the client suggested an error handling technique, not only for not typing in enough information but to verify the user that the formatting is incorrect.<sup>2</sup>

The client had a bit of trouble typing the data for student and visa information. Duplicate names could be inputted, for example, David Martin, can, in fact, be typed two times.<sup>3</sup> This could be solved with the nature of the data management page, but the client has suggested giving a pop-up message indicating that the following name already exists in the database, and prevent identical names to exist in the save file as well. He desires to overwrite the new information, replacing it with the old information.

The client was satisfied about the image feature.<sup>4</sup> However, he was slightly confused about the location of the upload image feature. He realized it would have been easier for him to upload the image in the visa information tab as he can refer to the image when inputting visa information.

He agreed to be satisfied with Java Interface design but proposes additional adequate user-interface features to be more extensible and straightforward in use. In the end, the client agreed that the product was usable and successful.<sup>5</sup>

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<sup>1</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #1, Appendix 5A

<sup>2</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #2, Appendix 5A

<sup>3</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #3, Appendix 5A

<sup>4</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #8, Appendix 5A

<sup>5</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #9, Appendix 5A

## Recommendations

### Minor Improvements

- Method to clean all data<sup>6</sup>
  - Reset button to empty save file information. Client has mentioned adding a reset method to clear all student or visa information if necessary.
- Location of Upload feature
  - Client has suggested placing such a feature in the Visa Information tab for ease in inputting data.
- Information Format Alert<sup>7</sup>
  - Client has suggested to include error handling techniques for incorrect formatting in input.<sup>8</sup>
  - EX) Dates. Separate the jTextField into year, month, and day, then create a combo box with a list of possible values for each.

### Major Improvements

- Season to Season Roll Over<sup>9</sup>
  - The client asked for reproduction of the database for new school and students
  - It can be extended by having an export feature of Jtable information to an excel file. Previous data will be saved in an external file and any deletion in the database will not affect it.<sup>10</sup>
- Data Validation (e.g. typing in multiple identical student names)
  - This can be managed in the Data Management tab, but the clients' suggestions are to forestall such from happening in the beginning.<sup>11</sup>
  - This can be solved by searching through the input "name" information in the arraylist, and overwriting the rest of information. Before that, pop-up can be used to alert the user.

Word Count: 536 words

IA Word Count: 1932 words

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<sup>6</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #5, Appendix 5A

<sup>7</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #2, Appendix 5A

<sup>8</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #7, Appendix 5A

<sup>9</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #4, Appendix 5A

<sup>10</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #4, Appendix 5A

<sup>11</sup> Chad Bates, interview by author, Bangkok, March 24, 2020, transcript section #7, Appendix 5A

Appendix 5A: Final Official Meeting Transcription (Discussion of the Product)



Crit\_A\_Appendix\_5A\_Inter...Text.pdf

Appendix 5B: Final Official Meeting Audio File (Discussion of the Product)

