

Criterion E: Evaluation

Evaluation of Product

Success Criteria (from Criterion A: Planning)	Successful (S)/ Partially Successful(P)/ Not Successful (N)
Error/Exception Handling	
<ul style="list-style-type: none"> ○ When users didn't put in solution for all of the available questions make an error pop-up ○ When users left the name textfield of set of questions blank make an error pop-up ○ When users are naming their set of questions with a name that has already been used by another set of question make an error pop-up ○ When user is clicking an empty row of the table in the library page make an error pop-up ○ Use JSpinner to limit input range ○ Disable buttons, spinners, and textfield and effectively prevent glitches. 	<p style="text-align: center;">S</p> <p style="text-align: center;">S</p> <p style="text-align: center;">S</p> <p style="text-align: center;">S</p> <p style="text-align: center;">S</p> <p style="text-align: center;">S</p>
Functions	
<ul style="list-style-type: none"> ○ Add <ul style="list-style-type: none"> ■ Set of questions (attributes: name, amount of questions, amount of choices, initial score, answer deduction, correct answer score, notes) ■ Solution for each set of questions' question ■ Results for each set of 	<p style="text-align: center;">S</p> <p style="text-align: center;">S</p> <p style="text-align: center;">N</p>

<ul style="list-style-type: none"> ○ Calculate <ul style="list-style-type: none"> ■ Users' score for each set of questions ■ Final score for each set of questions ○ Store <ul style="list-style-type: none"> ■ Set of questions ■ Solutions for each set of questions ■ Results for each set of questions ○ Display <ul style="list-style-type: none"> ■ All sets of questions are sorted by <ul style="list-style-type: none"> ● Name ● Number of question ■ Solutions ■ Results for each set of questions ○ Compare <ul style="list-style-type: none"> ■ Compare users' answers with solutions for users' score calculation 	<p>S</p> <p>S</p> <p>S</p> <p>S</p> <p>N (I already have to build databases for both the sets of questions and their solutions. Storing multiple exam results will lead me to building three databases, which I do not have time for.)</p> <p>S</p> <p>S</p> <p>S</p> <p>S</p> <p>S</p>
<p>Usability Features</p>	
<ul style="list-style-type: none"> ○ All text fields for input are labeled appropriately and clearly. ○ ComboBox's model updates to reflect the amount of multiple choices needed ○ Search sets of question by name ○ Search sets of question by tag ○ Sort sets of question for ○ Multiple answer choice style ○ Include Thai language 	<p>S</p> <p>S</p> <p>S</p> <p>N (Too complicated and ran out of time)</p> <p>S</p> <p>N(Want to focus on function's success criteria)</p> <p>N(Want to focus on function's success criteria)</p> <p>N</p>

<ul style="list-style-type: none"> ○ Set of questions can be import and export for easy backup solution 	
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word count: 79 (not including bulleted list)

Client's recommendation and feedback

Recommendation	Benefit	Why/how realistic
Make the spinners larger ¹	User will be able to see the value in each parameter clearer	My client said that he would like the spinners to be able to clearly display three-digits number/ Can be easily done in NetBeans' design tab
Increase the size of the ComboBoxes ²	User will be able to easily pick a solution for a question	My client said that he often misclicked the choices in the ComboBoxes as they were too small.
Make a button to replace 'new set of question' menu item ³	Easier for user to access the menu	My client said that there's no reason to hide the new set of questions in the menu bar. He wants it to be a big visible button/Can be easily done in NetBeans' design tab
Calculate final score ⁴ instantly	User will be able to see the marks available before they click calculate result	My client wants the test takers to be able to see the full marks available before they even finish answering.

¹ Dilok Buarode, interview by author, Bangkok, Thailand, March 23, 2019, line 12, Appendix 4

² Dilok Buarode, interview by author, Bangkok, Thailand, March 23, 2019, line 18, Appendix 4

³ Dilok Buarode, interview by author, Bangkok, Thailand, March 23, 2019, line 28, Appendix 4

⁴ Dilok Buarode, interview by author, Bangkok, Thailand, March 23, 2019, line 31, Appendix 4

'Calculate result' should be a one-time button	User will only be available to click the calculate result button once	He doesn't want test takers to be able to redo the exam and recalculate the score instantly.
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word count: 199

Extensibilities List

- Add the ability to export a set of questions and its solutions as a txt file
- Add the ability to import text file as a set of questions and solutions
- Make the program backup data to cloud services
- Make the program store users' exam results
- Add the ability to edit sets of questions
- Delete button deletes both set of questions and its solutions

word count: 0 (bulleted list)

Crit A + B + C + E (total word count): 1963