**Criterion E: Evaluation**

## Evaluating the Product

| Success criterion | Met? | Evaluation |
|---|---|---|
| User-friendly and interactive. Simple to operate without convoluted instructions. More advanced functionality is supported by help text. | Yes | Client stated, "very straightforward to use, adding shapes is intuitive via the menus and left sidebar" More advanced functionality, including exporting to an image, are documented in the quick start guide. |
| Mind map elements able to be dragged and placed in the canvas | Yes | Functional via test plan. Client stated, "I could drag shapes easily". |
| Customization of design, options for shape, font, size, colour, etc. | Yes | Functional via test plan. Client stated, "editing all aspects of them… it's very intuitive!". |
| Canvas be able to pan and zoom in/out | Yes | Functional via test plan. Client stated, "drag the mind map to move around smoothly and zoom as well". |
| Importing a mind map file to continue editing and exporting to an image format | Yes | Functional via test plan. Client stated, "Saving and opening those files is just like all other editors" and "I've even exported a few images from it and pasted them into my notes." |
| No unresponsive or unintended behavior and not crash. Any combination of user input is properly handled. | Yes | Functional via test plan. Client stated, "I've never had the program crash or freeze." |
| Efficient and responsive to operate. Not feel sluggish with large data sets | Yes | Functional via test plan. Client stated, "the smoothness and fluidity of the program is amazing!" and "it was able to be just as fast to use with like 20 or so shapes on the screen." |

# Recommendations for Improving the Product

Undo and redo functionality
- This should be added to provide ease of use to the user, similar to other document editors, and should prevent data loss from accidentally actions.

Detect whether the mind map has been changed since last save and prompt to save if exited
- To prevent data loss, the program should indicate to the user if edits have been made since the last save. If changes were made and the exit button is pressed, the user should be prompted to save to prevent data loss.

Prompt whether to overwrite file
- When saving with the same file name as an existing file, the program should prompt whether to overwrite to help prevent data loss.

More customization options, such as size change of shapes, different strokes for lines and shape border, arrow on end of line and allow customization of it
- This will provide users with additional and more advanced methods of creating mind maps, which allows the program to be used beyond a simple manner.

Accidentally clicked on "set as origin" menu item
- An option to cancel the current operation for making a new connection between shapes should be added. This is to mitigate closing the program or setting a termination to be able to "set as origin" again.

Error checking and file compatibility management of mind map files
- If the JSON save file is corrupted, perhaps due to accidental external edits or storage errors, the program should handle it correctly and provide an option to repair to alleviate data loss.

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