BPMN Editor

Update: 21.05.2023
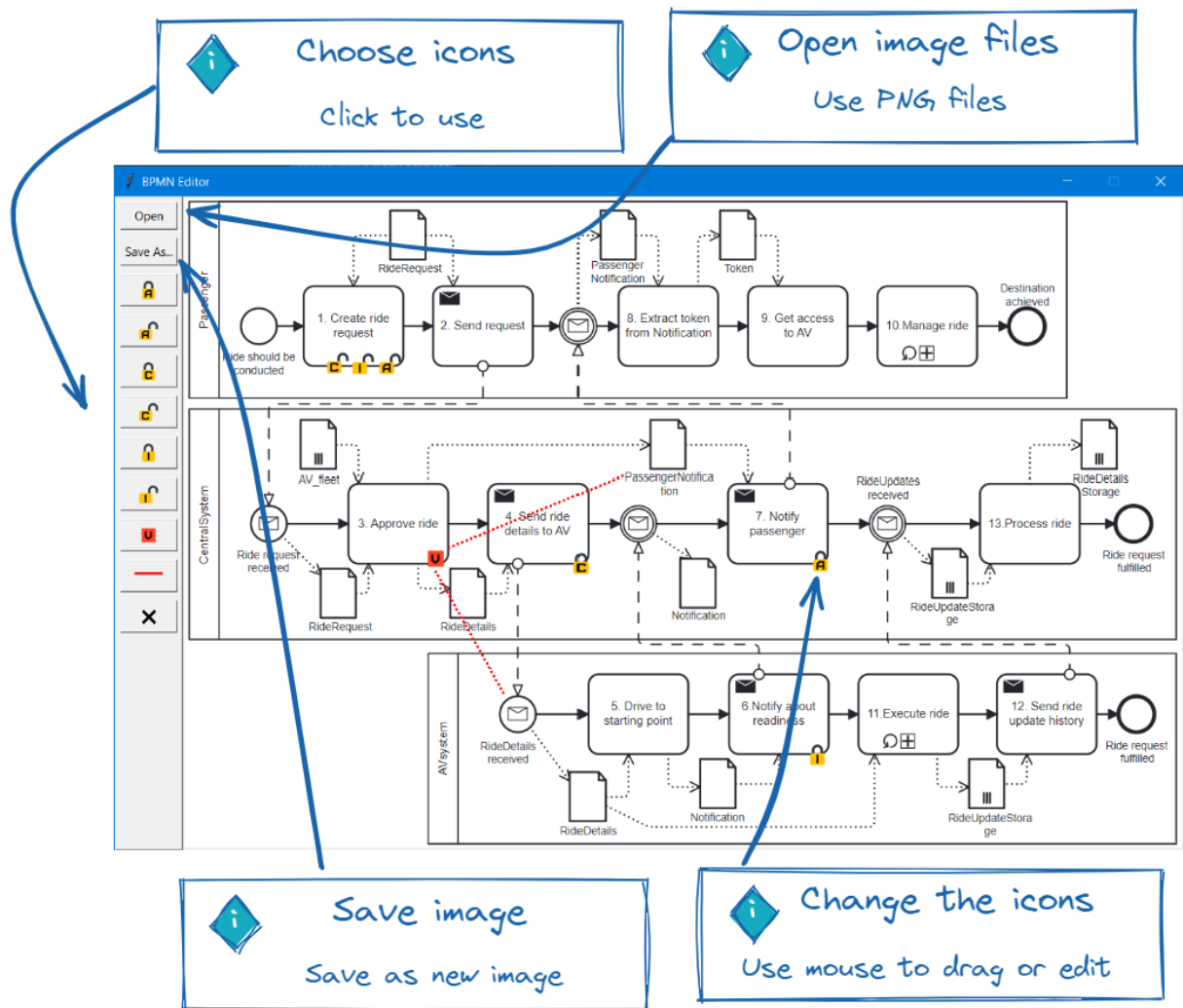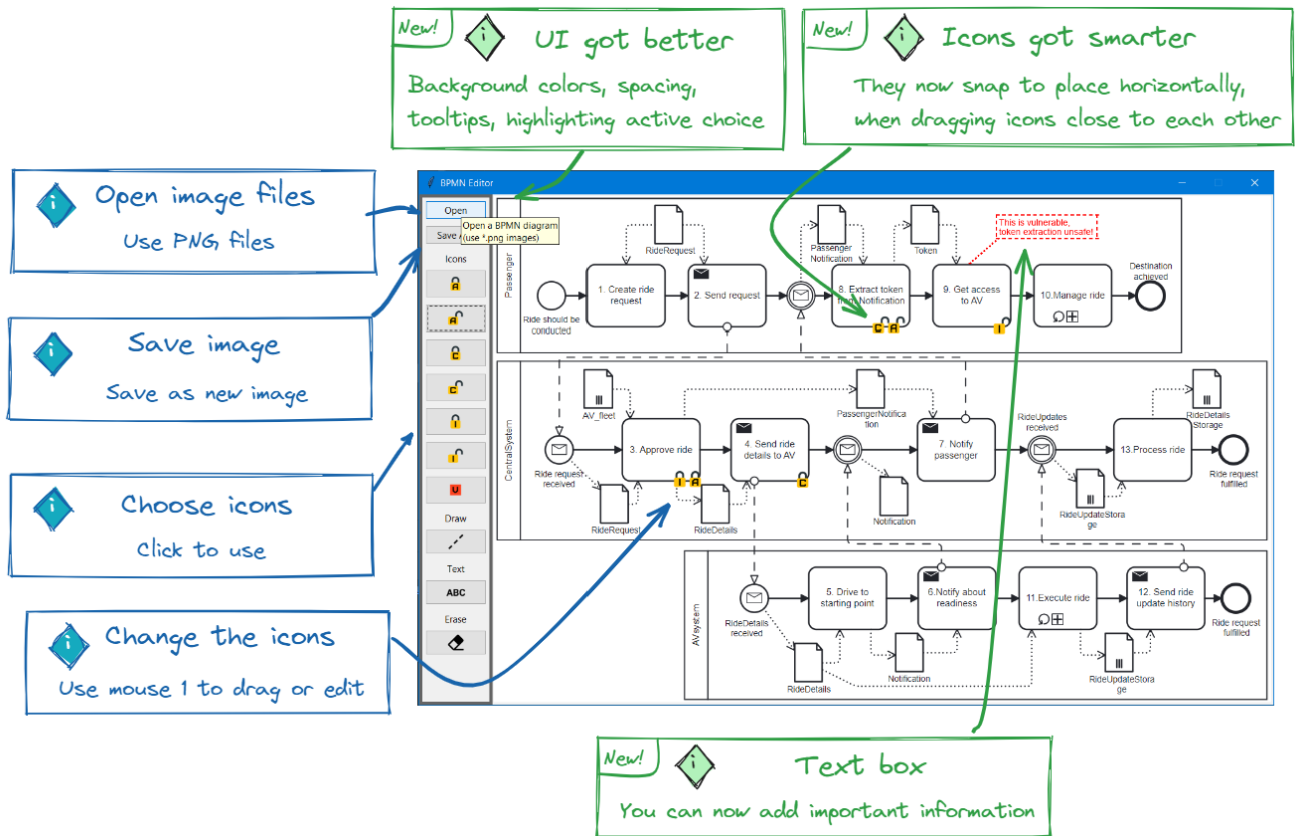

This project is a computer program that will allow users to open and edit BPMN model image files and edit them. Many BPMN language modeling tools allow the editing of the model, but they lack the ability to add custom icons or annotations.

The program includes following features:

1. GUI editor to load and view image
2. Add/remove of custom icons
3. Draw on the canvas
4. Write on the canvas
5. Save the image

Used libraries:

- tkinter
- Pillow

Troubleshooting

Problems saving the image

The image saving functionality may in some cases include a little more or less of the screen than expected. This is because the application uses screenshotting as the way to save the image and having scaling turn to something other than 100% seems to affect the ability to use the coordinates correctly for

the capturing of the image. For the best experience, please turn screen scaling to 100% when using this app.

References

- https://docs.python.org/3/library/tkinter.html
- https://tkinter-docs.readthedocs.io/en/latest/widgets/canvas.html
- https://pillow.readthedocs.io/en/stable/reference/Image.html
- https://pillow.readthedocs.io/en/stable/reference/ImageTk.html
- https://pillow.readthedocs.io/en/stable/reference/ImageGrab.html
- https://realpython.com/python-gui-tkinter/#building-your-first-python-gui-application-with-tkinter
- https://www.tutorialspoint.com/python/tk_canvas.htm#
- https://www.youtube.com/watch?v=Jl1xsH6MR1g&t=254s&ab_channel=Codemy.com
- https://stackoverflow.com/questions/15839491/how-to-clear-tkinter-canvas
- https://stackoverflow.com/questions/10865116/tkinter-creating-buttons-in-for-loop-passing-command-arguments
- https://stackoverflow.com/questions/7142342/get-window-position-size-with-python
- https://stackoverflow.com/questions/3221956/how-do-i-display-tooltips-in-tkinter

Icons

- Erase icon: https://icons8.com/icon/98488/erase
- Text icon: https://icons8.com/icon/101035/abc
- Draw icon: https://icons8.com/icon/120152/dashed-line

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Source code

https://github.com/Nurech/python-group-work