User story List Based on V0.4 Prototype V1.0

- 1. A User wants to do some research on cells, so he/she decides to use our Napari plugins to segment the cell images.
- 2. User opens the code base and runs the new server locally.
- 3. User opens another terminal and input the command line argument 'napari'.
- 4. User opens the plugin menu on the top left.
- 5. Firstly users use the Auto-segmentation plugin and the button shows on the right side menu.
- 6. Then the user opens the Load Image Widget, clicks the open file and selects the cell image.
- 7. The user clicks the select button and then the image will be displayed on the screen.
- 8. The user clicks the auto-segmentation button and Napari will auto-segment the cell.
- 9. The user sees different layers on the cell images by auto-segmentation.
- 10. The user finds that the accuracy of auto-segmentation is a bit low. And then he/she uses box-segmentation to choose the cells that have been wrongly segmented.
- 11. The user clicks on the box-segmentation button in the plugin list of Napari, and the box-segmentation right widget is opened.
- 12. The user clicks on the Bounding box button on the left widget, and uses the draw box button on the top left of the window to draw the box.
- 13. After the user draws the box on the image, he/she clicks overwrite on the right widget inside the box-segmentation widget, and then clicks on BOX SEGMENT button, he/she finds that two cells have been segmented into one.
- 14. The user still does not get what he/she wants, then the user clicks the Prompt Points on the left widget.
- 15. The user clicks the 'add-point' button so that the plugin can automatically add new points and segments itself. Then it will separate those two cells with points.
- 16. The user clicks the different mask and is able to only display specific layers of cells.
- 17. The user is able to click on the 'seen/unseen' button on the left of each mask.
- 18. The user is able to see only a few masks that what he/she wants.
- 19. The user selects a different image and auto-segmented the image again.
- 20. The user gets the results and closes the Napari.