# Report 2

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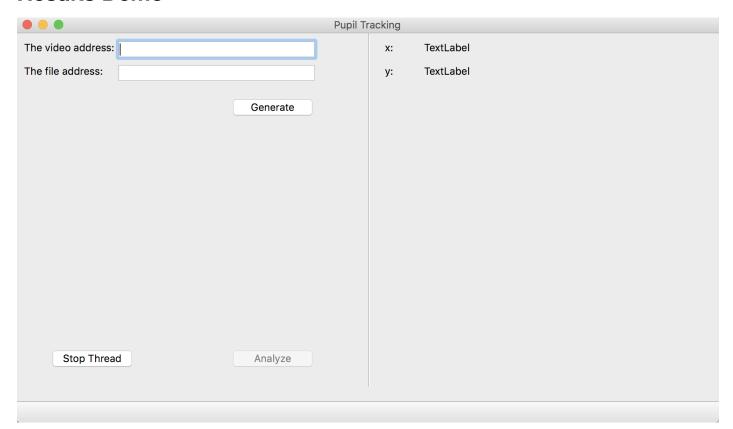
## Objectives achieved this week

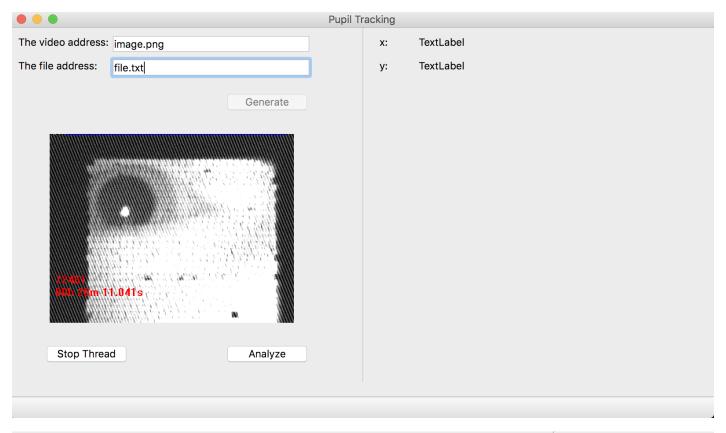
- Setting up the user interface.
- Enabling user-selected image-space to increase run time efficiency by scan ning less space.
- implementing multi-threading to increase run time efficiency.

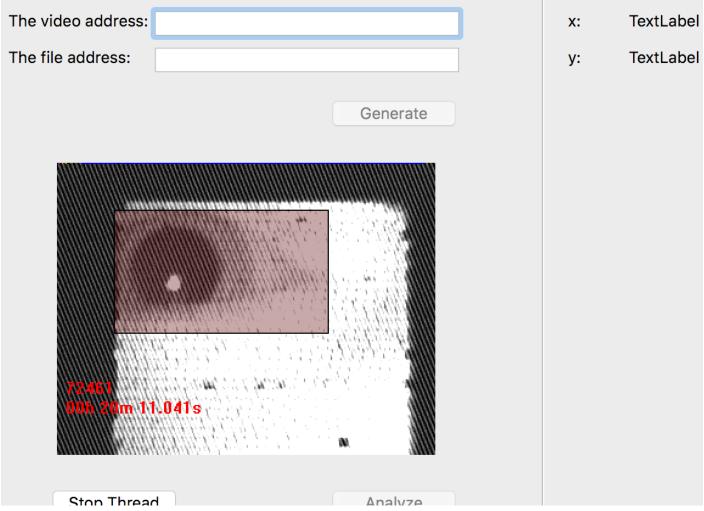
## Objectives for next week

- Read the data input from the data file.
- Contextualize the data from the data file.
- Correlates the video and the data.

### **Results Demo**







## **Explanation**

#### "Video Address" and "File Address"

-user inputs, which also have self-check functions to see if the files exist.

#### "Generate button"

-generates an open-eye picture for users to select as well as creating another thread in the background to output all the video generated pictures to the output file.

#### "Analyze button"

-Crop the image by the user-selected portion(Marked by the red rectangl e), and run the image processing algorithms on it.

#### "Stop thread button"

-Stop multi-threading(in case the results are wrong)

#### "Space on the left"

-Wait after completing the image-processing part.

### Conclusion

User Interface is half-completed. However, challenges remain on how to updat e displayed pictures in real-time so that users could watch the whole proces s of image processing and terminate it when necessary during the analysis process.