

## Snapshot Week 9 of Group AttackFlow1

Building a dataset of real-world cyber-attacks with Attack Flow

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October 09, 2023

## Product Backlog

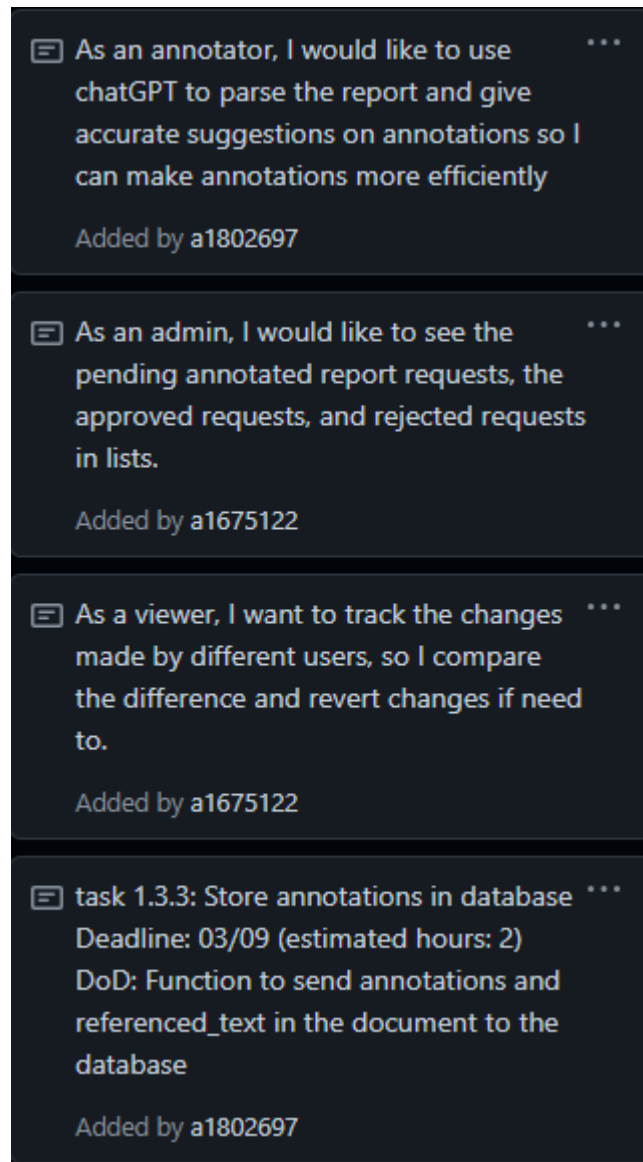


Figure 1: Product Backlog (Sprint 5) 1 of 5

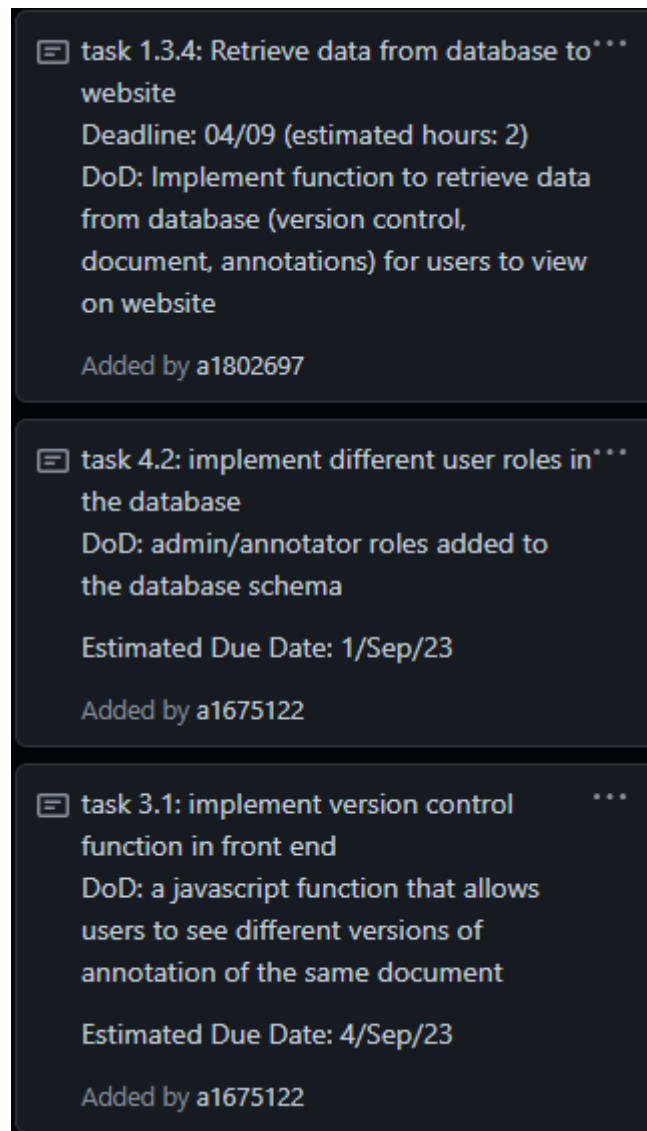


Figure 2: Product Backlog (Sprint 5) 2 of 5

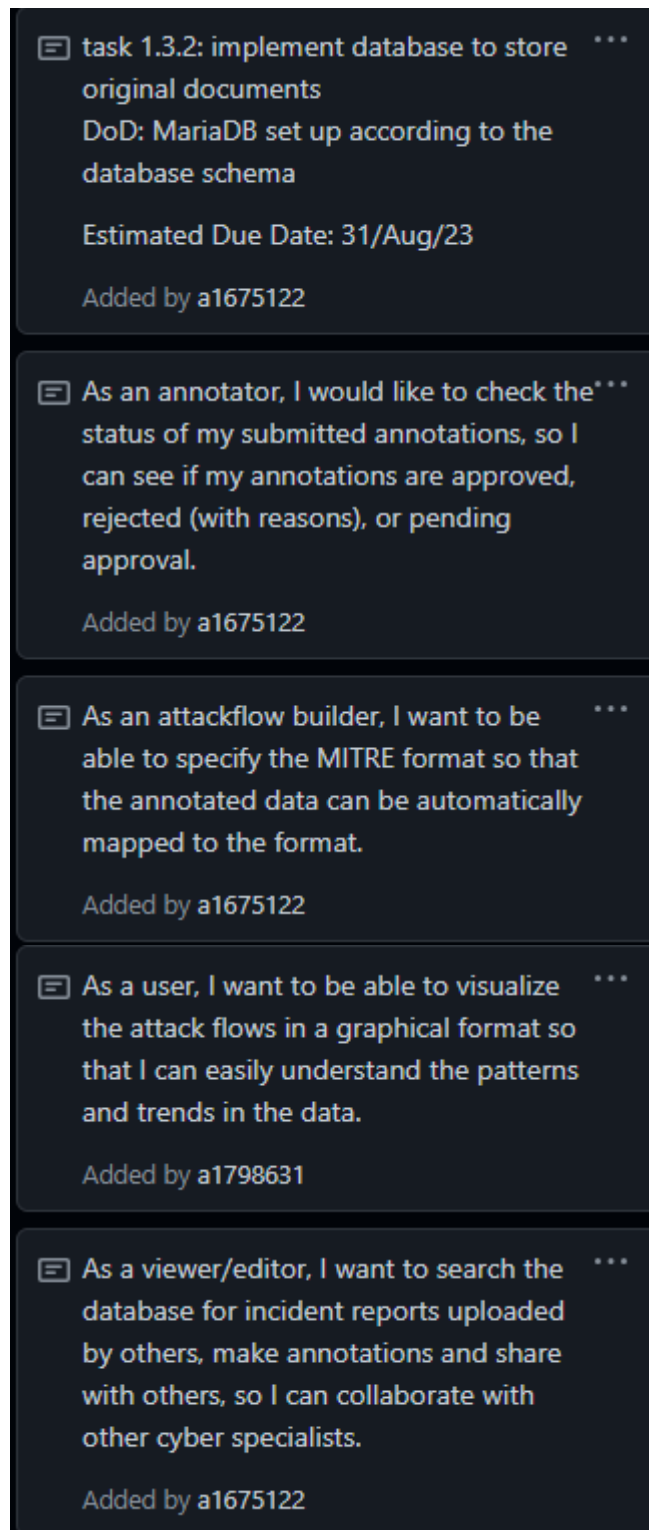


Figure 3: Product Backlog (Sprint 5) 3 of 5

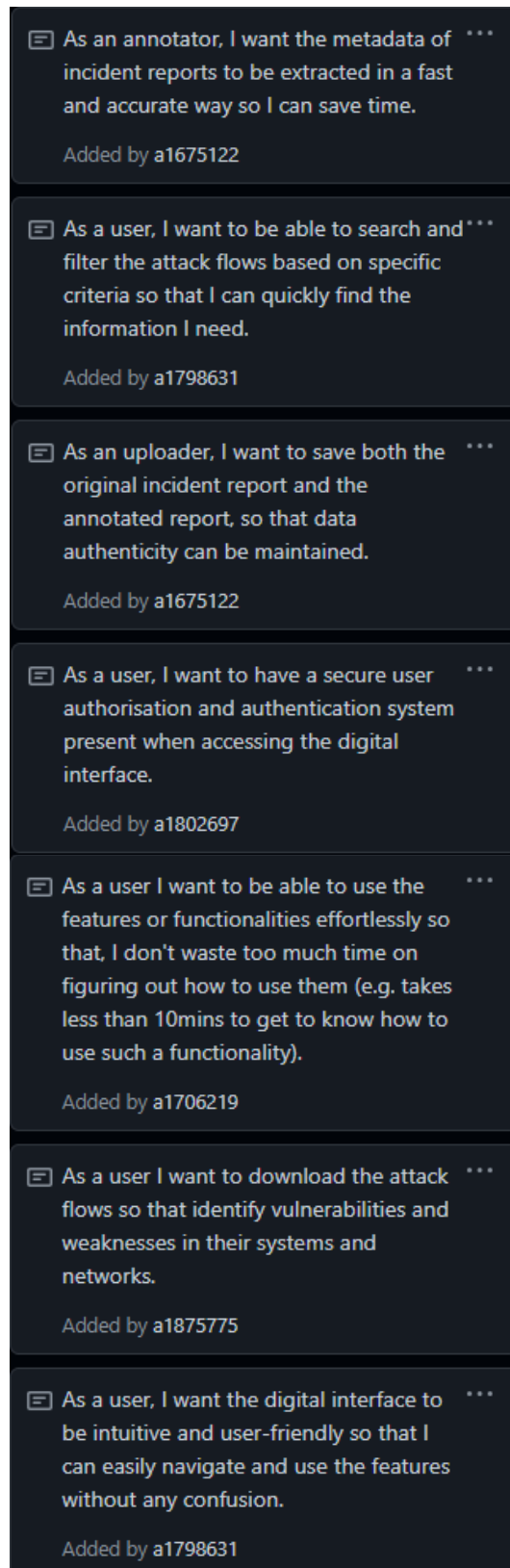


Figure 4: Product Backlog (Sprint 5) 4 of 5

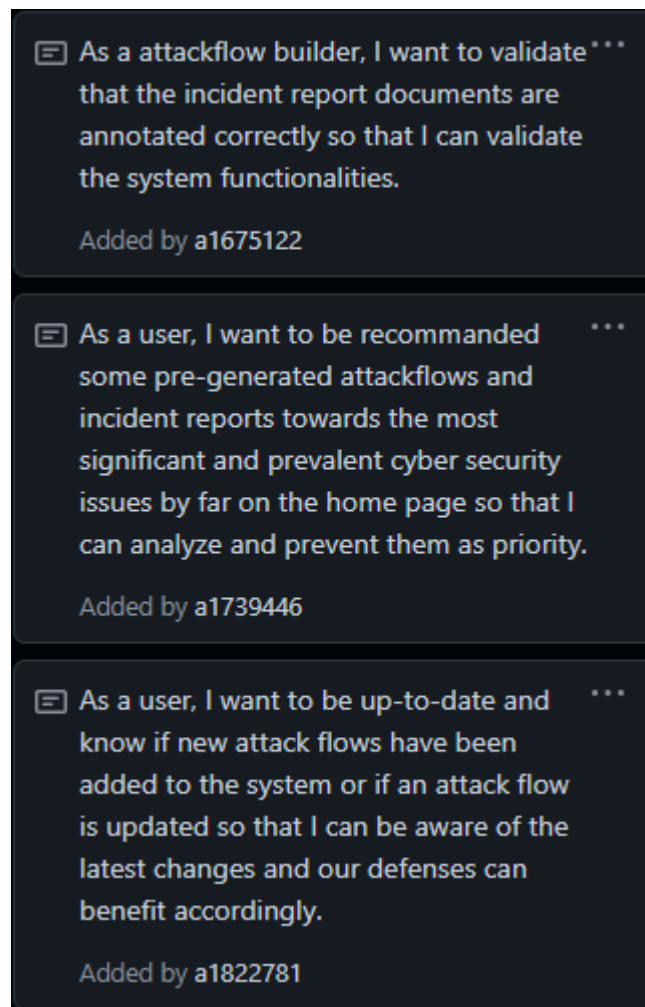


Figure 5: Product Backlog (Sprint 5) 5 of 5

## Task Board

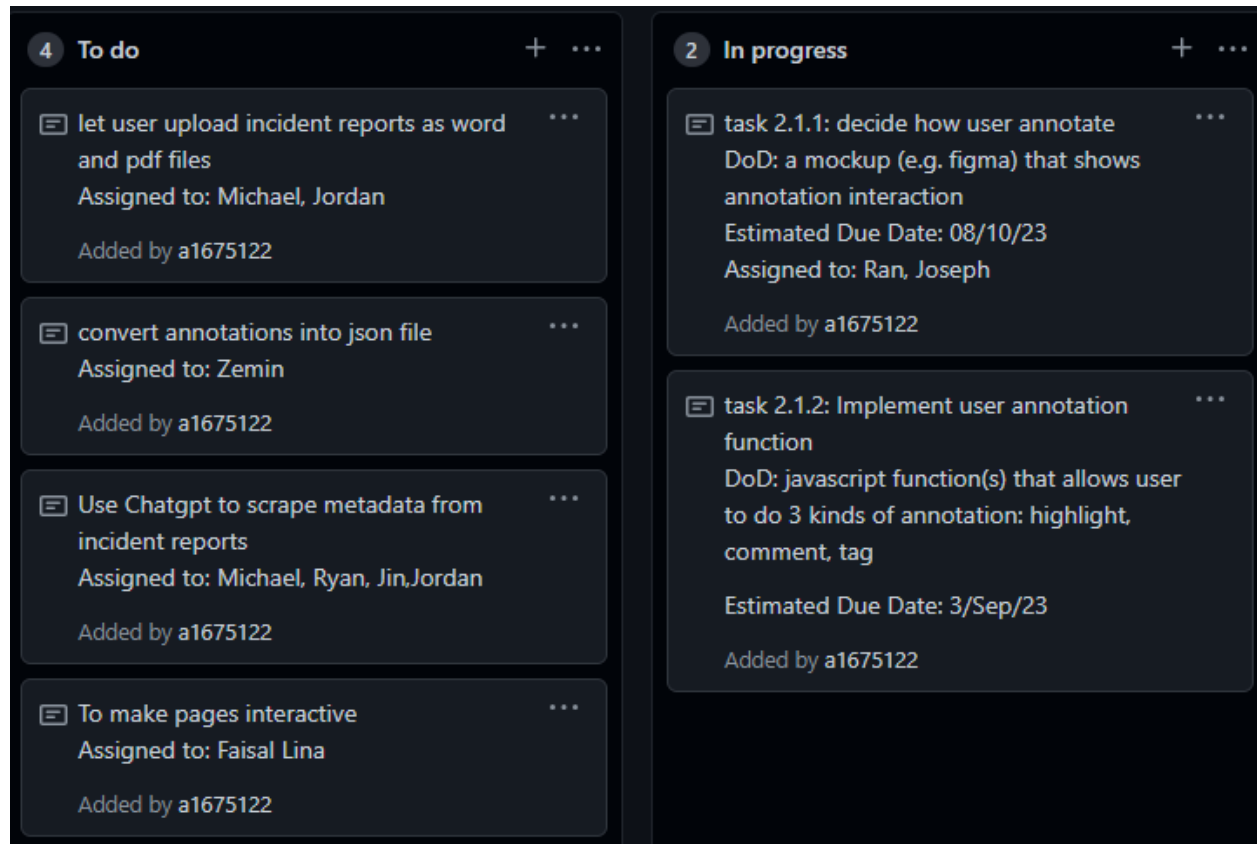


Figure 6: Task board (Sprint 5)

## Sprint Backlog

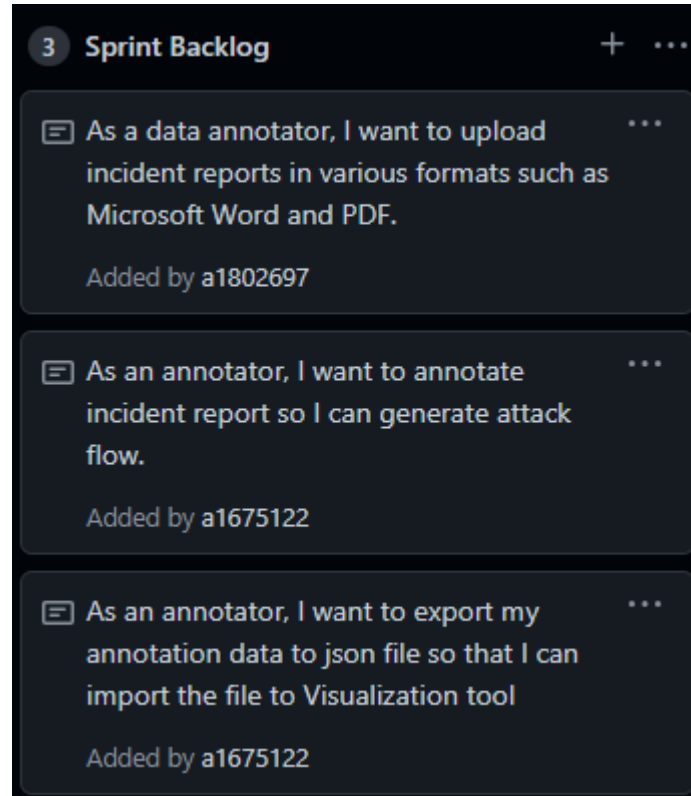


Figure 7: Sprint Backlog (Sprint 5)



## User Stories

Our major focus this sprint is to design and implement the annotation process which includes how the user annotates with a figma mock-up to show annotation interaction, and then implement the user annotation functions of highlight, comment and tag. After which the extraction to j-son format must also be implemented.

- “As a data annotator, I want to upload an incident report and save it so that I can further edit the file.”
  - Related tasks:
    - task 1.2: upload function
    - task 1.3.2: implement database to store original documents
- “As an annotator, I want to annotate incident report so I can generate attack flow.”
  - Related tasks:
    - task 2.1.1: decide how user annotate
    - task 2.1.2: implement user annotation function
    - task 2.1.3: integrate ChatGPT to parse report and give accurate annotation suggestions

## Definition of Done

The individual DoD of each task can be seen on the screenshot of the task board. In summary, the goals are:

- Testing the integrated backend functions works as we expected.
- Code is well-documented and adheres to our coding standards.
- Explain and ensure that all the scrum members understand the specifics of the tasks and how to construct the implementation.

## Summary of Changes

This snapshot will focus on the upload and annotate functions with a focus on how to implement the 'keywords/tags' function. Also, the extraction to j-son format must be implemented. ChatGPT has been found to be inadequate as a function to extract techniques and instead will be used mainly to only extract the metadata. A new function or technique must be found to extract techniques from reports.

- **Refined our annotation functions to better align with the clients requirements.** After a meeting with the client, the development of the annotation process with the annotation functions must be re-visited. How to annotate? How to use keywords/tags? How to use predefined keywords/tags? How to incorporate keywords from Mitre Att&ck? Must identify tags and be able to manually search from drop down menu to define relevant tag.
- **This snapshot downgrades the major role of ChatGPT in parsing the report and providing accurate annotation suggestions.** We have downgraded ChatGPT in our web application to extract metadata only and not used to extract techniques.