

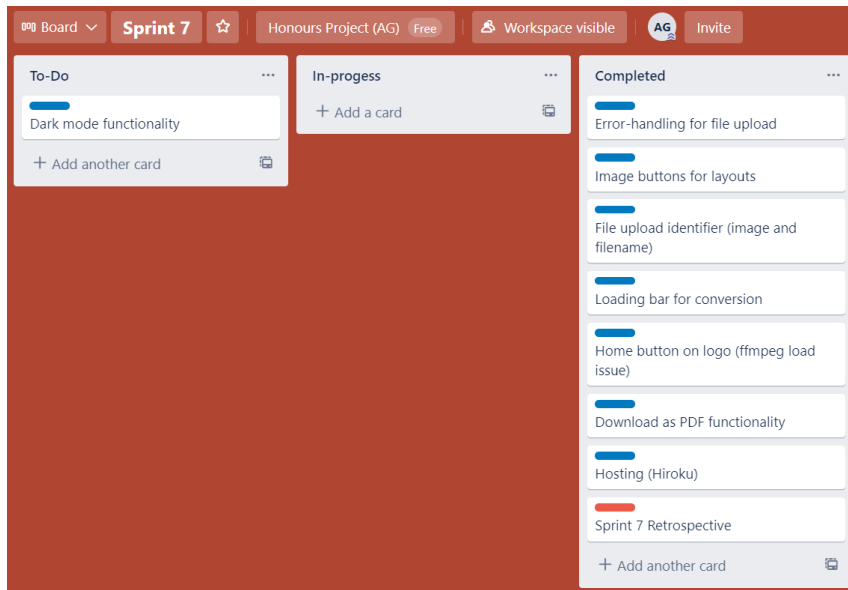
Sprint 7 Retrospective

Start Date: 29th of March 2021

End Date: 11th of April 2021

Duration: 14 days

Goals: Download functionality was the priority for this final sprint along with adding some error-handling and fixing any small bugs. The layout was also finalised during this sprint and the website was hosted on Heroku.



Decisions:

@media print

The @media rule, introduced in CSS2, made it possible to define different style rules for different media types. This made it possible to make use of the built in print function but style it so that only the finalised comic would be printed while maintaining the styling of the on-screen components.

Dom-to-img-more:

A library which can turn arbitrary DOM node into a vector (SVG) or raster (PNG or JPEG) image, written in JavaScript. This was used to convert the Material-UI Grid component into a PNG. This was required as the '@media print' function wouldn't print the Grid properly so an image had to be captured to ensure it was printed exactly as seen on screen.

Outcomes: Download functionality was achieved through the use of the CSS @media print rule. A function was created to capture an image of each page of the graphic novel and append them to a hidden <div> at the bottom of the page. This hidden <div> would then be printed in the outputted graphic novel and all other screen elements would be hidden using the '@media print' rule.

Error-handling for file upload was also implemented in this sprint. The only file types accepted by the application are .mp4 and .srt, any attempt to upload other file types will be met with a message that the file type is wrong. The user will also not be able to continue with the conversion until both a video and subtitle file are uploaded. Buttons are now disabled while a process is ongoing.

There are now identifiers to tell the user what is happening with the application. On file upload the upload icon will be replaced with a tick and the filename displayed at the bottom once a file has been successfully uploaded. This was done to ensure the user knows their file has uploaded successfully. Error messages are present if it was unsuccessful. There is also now a loading icon while the conversion is taking place so the user knows the process is taking place.

Finally, the application was hosted on Heroku. This was done so that user testing could take place. Darkmode functionality was planned but ultimately removed from the user stories due to time constraints.