

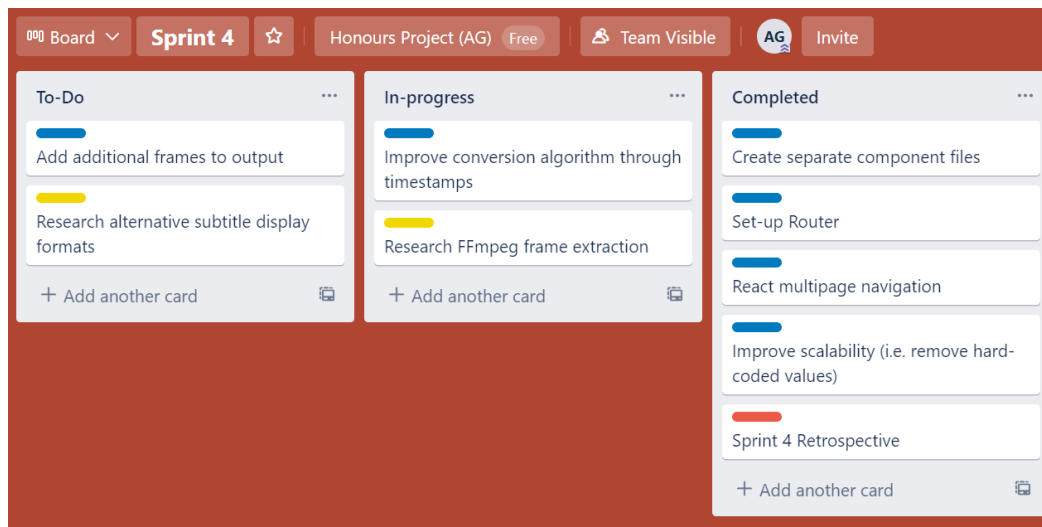
# Sprint 4 Retrospective

**Start Date:** 22<sup>nd</sup> of February 2021

**End Date:** 7<sup>th</sup> of March 2021

**Duration:** 14 days

**Goals:** The focus for sprint 4 was on incorporating timestamps into the display algorithm. This sprint also involved creating a better structure for the project by creating a multi-page application and removing all hard-coded data. The sprint was extended to 2 weeks due to the complexity of some of the tasks.



## Decisions:

### *React Router & Hooks*

React Router is the standard routing library for React that keeps the UI in sync with the URL. It allows for different components to be bundled together on a single page and allows multi-page applications through URL tracking. By preventing a page refresh, and using Router or Link, the flash of a white screen or blank page is prevented. This is one increasingly common way of having a more seamless user experience. [4]

React hooks allow for easy manipulation of the state of functional components without the need to convert them into class components.

## Outcomes:

A React Router was implemented in order to separate existing code into components and create a better page structure. This involved researching multi-page applications in react and learning how to pass data between pages. React Hooks were explored for this as they allow for state logic to be used and also allow advanced React features without the need for an extra class.

The website is now a multi-page application which creates a better interface for the user. Page features are now separated into components to improve readability and performance as they will not all have to be re-rendered after each process. Data is passed through the pages using the 'Link' function of the Router and the useState() hook.

Timeframe extraction from the generated keyframes proved to be a difficult task. FFmpeg.wasm does not allow for debug information to be outputted as a file so I had to re-examine my keyframe extraction commands. A custom logger was created to pull data from the FFmpeg log.js file and output it into an array. This data was then parsed so that the timestamps for the extracted keyframes could be identified.