

SE 492 - Report 04  
Decision Support in Racket Games  
Status Report 4

2/27/2020 - 3/12/2020  
Group Number: SDMay20-44  
Project Title: Decision Support in Racket Games  
Client: Simanta Mitra  
Faculty Advisor: Simanta Mitra

## Team Members

Benjamin Kramer  
Brian Guidarini  
Katelyn Sinn  
John Rachid  
Christian Barnes  
Aiden McMinimy

## Biweekly Summary

This week, the team was focused on flushing out the front-end portion of our project. Developments that were made was refactoring the components for the react app, improving the aesthetic of the upload page, and being able to successfully upload a video to our team's server. As far as the backend, the members working on the backend have polished the processing and server implementations that were developed.

## Accomplishments

- Ben
  - Got the image processing into a state where the project can move forward without needing any more huge optimizations or features with the help of John. With this piece in a good state, the team can start to focus more on the front end and polishing the project.
  - Started working on the front end to retrieve video. Having not worked on the front end yet, I got familiar with the frameworks that are being used and looked into the best way to retrieve and display video. Ultimately, I found that using HTTP requests for video retrieval is not viable.
  - Met with Brian and discussed a way to host videos directly on our Django server as an alternative to HTTP requests. It was found that this method should be fairly straightforward and may be necessary, as there is very little information on video streaming using HTTP requests.
- Brian

- Cleaned up the API, giving clearer output
- Met with Ben to find a solution to our video retrieval problem. We'll move from returning the entire video to just hosting it on Django
- John
  - Continued fleshing out time slices for the JSON on the front end.
  - Met with the front end to discuss timeframes
- Aiden
  - Made updates to the React elements based on Katie's request
  - Continued to create the recommended view
- Katie
  - Switched around react app components to have a better skeleton of what we need
  - Figured out dark mode in material ui components
  - Set up upload video endpoint, successfully uploads video to server folder now
  - Set up polling for video processing status, starts polling after video uploads
  - Adapted store to hold flag to inform app that video is done processing
- CB
  - Set up an alternative upload file that has improved visual aesthetics. Instead of a button, we now have a file dropzone to upload files
  - Improved functionality where users now have choice to simply drag and drop video file in the dropzone
  - Implemented a progress bar to show progress of the video being uploaded
- All

## Pending Issues

- Several front-end components from this iteration remain unimplemented

## Time

Team Member	Bi-Weekly Hours	Total Hours
Benjamin Kramer	15	56
Katelyn Sinn	16	44
Brian Guidarini	14	69
Christion Barnes	13	
John Rachid	15	53
Aiden McMinimy	16	42

## Upcoming Tasks

- Ben
  - Continue working on video retrieval and display on the front end. This will need to be done with the help of Brian, as this piece is moved away from HTTP requests.
  - Debug the Python processing as the team starts to use it on the front end. It's likely that while the processing has a good foundation, bugs may be discovered as it becomes a piece of the frontend.
- Katie
  - Finishing polling loop, set up app to retrieve time splices when it returns finished and add to store
  - Work with brian to adapt backend endpoints so that when opened, app will start polling on unfinished processing videos
- John
  - Finish fleshing out time slices
  - Work with the front ends to get them what they need in order for the front end to be finished.
- Brian
  - Refactor the API to comply with REST standards
  - Redo the Retrieve-Video endpoint to provide a link to the video, rather than sending back the entire video.
- Aiden
  - Finish the recommended view
  - Get more tasks from Katie
- CB
  - Work with Katie and Aiden to finish a complete front-end version of the app
  - Develop an official home page for users to interact with
- All
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## Advisor Meeting Summary

Our client is looking forward to seeing the front-end communicate with the back-end. We predicted that this will be setup by the end of break. Dr. Mitra informed us that the API could be clearer if it conformed to REST standards. Lastly, we now have a server.