Applied Research Document

Individual project: Tennis Titans

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| 1.0 | 20/03/2023 | **Matei-Andrei Alexandru** | Document’s main structure and content | Finished |
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# Abstract

## Summary of the research

This research paper is called “Integrating an API that provides a YouTube channel’s content” and it contains the steps and processes I went through in order to integrate an external API into my web application. This is done so that I can fetch video content from the “TennisTV” YouTube channel and display it properly on the Tennis Titans website so that the users can browse up to date tennis related content.

## Main Question

**How can Tennis Titans display video content from the “TennisTV” YouTube channel on their website?**

## Sub Questions

1. Are there any existing APIs or libraries that can be used to display YouTube videos on a website?
2. How can Tennis Titans authenticate with the YouTube API to access the TennisTV channel?
3. What specific YouTube API endpoints and methods are required to retrieve and display the needed content on the website?
4. How can Tennis Titans ensure that the TennisTV videos displayed on their website are up-to-date and accurate?
5. What features and functionality should be included in the user interface for displaying TennisTV videos on the Tennis Titans website?

# Introduction

Tennis Titans is a leading online blog for tennis enthusiasts that provides a range of features and services to its users. One of the key requirements of this platform is to provide high-quality video content that can be accessed by its users. To achieve this, Tennis Titans has decided to display videos from the popular “TennisTV” YouTube channel on its website.

However, integrating YouTube videos onto a website can be a challenging task that requires careful planning and implementation. In this applied research document, I aim to answer the question: "How can Tennis Titans display video content from the 'TennisTV' YouTube channel on their website?" To achieve this goal, I have identified the following sub-questions:

1. Are there any existing APIs or libraries that can be used to display YouTube videos on a website?
2. How can Tennis Titans authenticate with the YouTube API to access the TennisTV channel?
3. What specific YouTube API endpoints and methods are required to retrieve and display the needed content on the website?
4. How can Tennis Titans ensure that the TennisTV videos displayed on their website are up-to-date and accurate?
5. What features and functionality should be included in the user interface for displaying TennisTV videos on the Tennis Titans website?

By answering these sub-questions, I aim to provide a comprehensive research paper for integrating the TennisTV videos onto the Tennis Titans website. This document is structured as follows: I will first review the relevant documentation and existing information on YouTube API integration and website video display. Next, I will describe the methodology for answering the research questions and implementing the solution. Then, I will present the results of our research and provide a detailed discussion of my findings. Finally, I will conclude with a summary of our key findings and recommendations for Tennis Titans.

# YouTube API documentation review

# Methodology

# Results

# Discussion

# Conclusion

# References

# Appendices