**Use Case Document**

**YouAnalytics**

**K.M.A.R.T. Consulting**

**123 YouStreet**

**St. Peters, MO 63376**

**July 21, 2023**

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# Introduction

This Use Case document has been developed for K.M.A.R.T. Consulting's new web-based application, YouAnalytics, a tool that is used for quick and simple access to information you want to track as a YouTube User. The YouAnalytics application will be provided as a new tool to any client with a YouTube account. Our YouTube clients have identified business needs for optimizing their channel to increase viewers and subscribers across the globe. The new YouAnalytics Web-based Application will be designed to meet these business needs.

# Explanation of Use Case Contents

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| --- | --- | --- | --- | --- |
| **Name of Use Case:** | **Explanation of Use Case Contents** | | | |
| **Created By:** |  | | **Last Updated By:** |  |
| **Date Created:** |  | | **Last Revision Date:** |  |
|  | |  | | |
| **Description:** | | **Provide a short name for the use case which should lend itself to the objective of the system** | | |
| **Actors:** | | **Actors may be primary or secondary. Primary actors are the people who will be initiating the system described in the use case. Secondary actors are those will participate in the completion of the use case.** | | |
| **Preconditions:** | | **This section should describe any conditions that must be true or activities that must be completed prior to executing the use case.** | | |
| **Post-conditions:** | | **This section should describe the state of the system at the conclusion of the use case. Postconditions may include conditions for both successful and unsuccessful execution of the use case.** | | |
| **Flow:** | | **This section should describe all actions of the user and the expected system responses for planned normal execution of the use case. The description should be sequential and provide adequate detail to understand all user actions and system responses** | | |
| **Alternative Flows:** | | **Many use cases have varying or special extensions or conditions which are separate from the main flow but also necessary. Alternative flows are usually the result of options or exceptions built into the use case which may alter the primary flow.** | | |
| **Exceptions:** | | **When use cases are executed, there may be various conditions which result in errors. This section should describe any errors that may result during use case execution and how the system will react or respond to those errors.** | | |
| **Requirements:** | | **This section should describe any non-functional or special requirements for the system as the use case is executed. These requirements may consist of legal or regulatory requirements, quality standards, or organizational requirements that are outside of the functional requirements the system is expected to perform.** | | |

# Use Case

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| --- | --- | --- | --- | --- |
| **Name of Use Case:** | **Login to YouAnalytics** | | | |
| **Created By:** | K.M.A.R.T. Consulting | | **Last Updated By:** | Krissy Stichnote |
| **Date Created:** | June 23, 2023 | | **Last Revision Date:** | July 21, 2023 |
|  | |  | | |
| **Description:** | | **Login to YouAnalytics using YouTube Google Account** | | |
| **Actors:** | | **Primary Actor: YouTube User**  **Secondary Actor: Google Authentication Services API** | | |
| **Preconditions:** | | **User must have a YouTube account which requires a google account** | | |
| **Post-conditions:** | | **Once logged in through the Google Authentication Services API the API will verify who a user is and enable access to a user's confidential YouTube account information** | | |
| **Flow:** | | **YouTube users will go to YouAnalytics.com and choose their YouTube Google account. Once the user selects their account they will select continue. On the following screen it will give you a warning telling you that YouAnalytics wants access to your Google Account. You must click continue to login fully.** | | |
| **Alternative Flows:** | | **If the user does not click continue to login, the user will not allow YouAnalytics to gain access to their YouTube information and will not be able to use the service provided.** | | |
| **Exceptions:** | | **If the user clicks cancel without logging in, the user will be brought back to the Choose an account page.** | | |
| **Requirements:** | | **Google Account** | | |

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| **Name of Use Case:** | **Select data you want to track** | | | |
| **Created By:** | K.M.A.R.T. Consulting | | **Last Updated By:** | Krissy Stichnote |
| **Date Created:** | June 23, 2023 | | **Last Revision Date:** | July 21, 2023 |
|  | |  | | |
| **Description:** | | **Select data you want to track as a YouTube User** | | |
| **Actors:** | | **Primary Actor: YouTube User**  **Secondary Actor: Node JS, React, Tailwind CSS, Google YouTube Analytics API** | | |
| **Preconditions:** | | **User must have logged into YouAnalytics with Google Account and allowed YouAnalytis access.** | | |
| **Post-conditions:** | | **Once the user selects the data they want to track within a current or past date, the user will receive the output of data they selected.** | | |
| **Flow:** | | **The user will check the boxes of data they want to track, ie. Views, Likes, Dislikes, Estimated Minutes Watched, Average View Duration. Once the user has selected the boxes of data to track, they must select a start and end date range. The user will then click submit.** | | |
| **Alternative Flows:** | | **N/A** | | |
| **Exceptions:** | | **If the user selects a date range in the future the user will receive an error** | | |
| **Requirements:** | | **Google Account, data selected, current or past date range, Google You Analytics API** | | |

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| **Name of Use Case:** | **Data Output** | | | |
| **Created By:** | K.M.A.R.T. Consulting | | **Last Updated By:** | Austin McCowen |
| **Date Created:** | June 23, 2023 | | **Last Revision Date:** | July 21, 2023 |
|  | |  | | |
| **Description:** | | **Data output in form of CSV flat file** | | |
| **Actors:** | | **Papaparse** | | |
| **Preconditions:** | | **Uploaded CSV files to page and submit.** | | |
| **Post-conditions:** | | **Success: File is successfully parsed and integrated into React states.**  **Failure: a improperly formatted file or non-csv file was submitted.** | | |
| **Flow:** | | **User submits file into proper input sections on YouAnalytics webpage. Files are handled upon input and integrated into react, but they are not yet parsed. Clicking submit will parse the files using the papaparse library and store the information in React states.** | | |
| **Alternative Flows:** | | **N/A** | | |
| **Exceptions:** | | **Improper file type is submitted. Papaparse is a library designed to handle and parse csv files.** | | |
| **Requirements:** | | **N/A. Only papaparse is installed via npm.** | | |

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| **Name of Use Case:** | **Visual Output** | | | |
| **Created By:** | K.M.A.R.T. Consulting | | **Last Updated By:** | Austin McCowen |
| **Date Created:** | June 23, 2023 | | **Last Revision Date:** | July 21, 2023 |
|  | |  | | |
| **Description:** | | **Visual output in form of graph** | | |
| **Actors:** | | **Chartjs, React Chartjs** | | |
| **Preconditions:** | | **CSV Files are already uploaded into proper input slots on YouAnalytics webpage.** | | |
| **Post-conditions:** | | **Success: Chartjs/React chartjs line graph appears on YouAnalytics Webpage**  **Failure: Graph does not appear/updates improperly due to improperly submitted files.**  **Failure: Graph does not update with new information after new files uploaded (Bug)** | | |
| **Flow:** | | **CSV files are uploaded to YouAnalytics webpage, user then clicks submit button to handle said data. After CSV files are parsed, useEffect in react recognized that criteria are met and constructs data that slots into proper react state var that corresponds with a chartjs line graph child file. Once these changes occur, the div holding the graph component will stop being hidden and the graph element itself will be updated with said information with its own react state var/useEffect** | | |
| **Alternative Flows:** | | **N/A** | | |
| **Exceptions:** | | **Error: CSV files uploaded have mismatched data, I.e 3 headers (columns) yet line file has 4.** | | |
| **Requirements:** | | **N/A. Only that both libraries are install via npm.** | | |

Sponsor Acceptance

Approved by the Project Sponsor:

Date:

<Project Sponsor>

<Project Sponsor Title>

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