

Statement of Work

Streaming Catalog System

By

Anas Nouman

Cherie Gabriel

Idowu Oyedele

Murtaza Badshah

Instructor: Marcos Bittencourt Bittencourt De Jesus

Statement of Work

Streaming Catalog System

Overview

This team will be developing a Streaming Catalog system as part of our project. This application will record TV-series and movie profiles that are accessible by subscribed users from a front-end application. Our system also collects user-centric data, such as favourite, disliked or watched movies, timestamps etc, for every user and would allow the administrators to generate reports for analysis and auditing purposes.

Governance

The project members are Cherie, Murtaza, Idowu, Anas and they have full project governance. Other stakeholders of this project are Professor Marcos Bittencourt Bittencourt De Jesus and the beta testers.

Work breakdown structure (WBS)

Phase1

We will begin working on the base structure of the project on 3rd July 2021. Following that we will have until the 13th of July 2021 to produce the first phase of the application.

Our goal for this phase is to build the base application that has the following views:

- 1) Work on the design of the backend system that tracks analytics (Graphs & reports)
- 2) Developing a movie/series Information page.
- 3) Landing/Welcome page interface for our system.

Phase2

In this phase, we will continue to develop the layout of our application. We would select the appropriate framework for the front end. We will also be working on the backend on this phase. We plan to track some key analytics such as:

- 1) recording movie profiles.
- 2) recording the series profiles.
- 3) record the movie or series category profile.
- 4) record the streaming execution. (i.e. which user watched a movie; at what time?)
- 5) Backend report on demand for the staff and admin.
- 6) Allow admin and other backend users to have access to records on demand.

As the project progresses, we will be adding more features. This phase will begin approximately on July 14, 2021 and go on till August 4, 2021 right in time for the next deliverable.

Phase3

This will be the last and final phase of development directed towards testing and debugging our application. By the end of this phase, we hope to have a robust, functional application with a good UI to improve user experience overall. The final bug testing and rollout phase will span from August 4, 2021 to August 18, 2021 right in time for the last project deliverable.

Deliverables

The deliverables are broken down into the following: Inputs and Outputs.

Inputs includes the following: Information, Document, Plan, Equipment, Money, Software

Outputs: Consultation, Project Plan, Tool, Test Result, Product and Services.

Information: In the streaming app that will be developed, these sub deliverables are released, tested and approved before contributing to the whole deliverables. The streaming app will be developed and built for users to stream movies in real time anytime and anywhere with the design done by back-end developers.

- **Documents:** Both online and offline resources will be consulted in order to achieve this feat.
- **Plan:** For this project to be achievable, every member of the team will work holistically to make this project a success.
- **Equipment and manpower:** The major equipment that will be used for the project are laptops, internet services and manpower.
- **Finance:** Finance may be needed to carry out this project in the form of logistics, research and other materials. However, it is not mandatory.
- **Software:** The major software to develop this app is python. Databases will also be developed to store some of the data.

Output

- **Test Results:** Before the app is deployed, software testing such as unit, integration, system and acceptance testing will be done on the app. Series of consultations will be done and users will have the opportunity to carry out tests on the app. Feedback will also be welcome for further developments.
- **Product and services:** At the end of the above practices, the app will be deployed for mass viewing and acceptance.

Estimate

For our project, the budget estimate will be zero. We will be utilizing our study time to develop this application.

Assumptions

- The user needs to sign up and create their own account.
- The users can sort movie genres and be able to search for the movie title, year and main cast.
- Should allow users to view the length of the movie.
- The system tracks the most viewed movie or series and most visited page.
- The system needs an internet connection.
- The movies are in mp4 format.
- The system will include only short movies.

Work Requirements

In order to develop our project successfully, we will be utilizing the PyCharm community edition. We will also be doing some further research into an easy to build framework for our data analysis dashboard.