Faculty of Engineering and Applied Science

SOFE 3490U Software Project Management

Group 15

Lab 2: MUSIC HUB

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Date: February 05, 2020

A description of why you chose your topic, which can include an introduction to the topic's idea, the problems your topic is tackling and what you hope to accomplish with it.

We chose this topic because with the music industry growing it is becoming difficult for artists to have complete authority over their own work and what they choose to do with it. Our services will eliminate the need of a musician to hire a separate team in order to protect their work from piracy and earn the amount of money they deserve. With the help of the service, we hope to build a trusted connection between customers and artists where the artists are able to upload their music worry-free and customers can also listen without having to pirate the music. This service will appeal to all types of customers due to the different genres of music that will be available, sponsors due to the ability to advertise, artists as they will get the royalties and investors because of the constant improvement of the service.

Clearly outline your project's objectives. Some objectives may seem generic, but you must also include objectives that are relevant to what your project is doing. Examples include:
a. Simplify the organization and management of the artists' records for the investor by allowing the investor to add new artists, and track their performance).
b. Costs must not exceed the money provided by the investors' contract.
Feel free to use the project descriptions (and above examples) as your reference, but do not directly lift from the document. A minimum of five objectives is required.

We are aiming to build a software with the following objectives:
   a. The software will allow every artist that is verified and licensed to upload his/her music.
   b. The software will allow clients to view or listen to artists' music without advertisements if the client has a premium account, else the client will receive ads in return for a free account to listen to the artists' music.
   c. The software will simplify the organization and management of the artists' records for the investor by allowing the investor to add new artists, and track their performance.
   d. The software will have a recommendation service that will track the type of music the client listens to and will find similar music and create a playlist that updates as the client's music preferences changes else the playlist will contain the same music if the client's music preferences remain unchanged.
   e. Depending on what budget the investor has given, the software will contain changes in the user interface (high budget = best possible ui, low budget = low to moderate ui) and method of proceeding with the solution of the music hub in regards to software architecture and software development methodology (Agile, Waterfall, etc.).
   f. The software will allow clients to download music in the web application but will not allow downloads to be external. Music will have offline capabilities but will not be available outside the application.

Outline your project's measures of success. How would you say that your objectives are being met? An example can be:
a. The system contains a functional database that keeps track of artists' records that achieves the required data organization.
Something simpler can be:
b. Projects' costs did not exceed money provided by the investors' contract.
Thinking of practical ways your objectives are actually met is key to writing your measures of success. A minimum of 5 measures of success is required.

    a. The artists will have a separate artists account on the web application that will provide the ability to upload their music and track their earnings
    b. Database that stores the type of customer (either premium or non-premium) and enables or disables the advertisements when required
    c. The investor will have a separate account on the web application where they are able to add and track the performance of new artists.
    d. Functional database that keeps track of what customers are listening to and based on that information provides new recommendations to the customers
    e. A web application that appeals to customers where ads are displayed appropriately for non premium customers and not for premium ones
    f. A security mechanism to prevent customers from pirating the music

Finally, state the infrastructure, be it hardware or software, you'll need for your project. An example of that can be: "Cloud server to store the artists' database."
Include at least 4 points. You do not need to go into specifics (e.g. the exact kind of sensor you will need to use), just what you'll generally need (e.g. a sensor to measure heartrate for a health monitoring system)

    a. A cloud server to store artists' database and client database. A separate secure server to store client and artist login credentials.
    b. A User friend and simple yet elegant User Interface developed in programming languages used for a dynamic web application.
    c. A two-factor authentication process for logging into the web application to prevent non-authorized users from accessing the application.
    d. A secure folder with downloaded music that cannot be accessed outside the application