

Software Project Management

LAB 2

#	Name	Student number
1.	Fadi Salback	100649987
2.	Sarthak Sharma	100604428

1. The music Hub was an interesting idea to choose because it is something that a lot of young adults use. Whatever genre of music they might like it doesn't discriminate to a specific type of music and has a variety. The nice thing about a music hub is that even if an artist is not very famous he is able to upload his music on the network. However, something that most music hubs do not have is a fair system to the artists that are not as famous although it is possible that they may have a song that becomes very popular and attracts many listeners. We want to develop a system where every artist no matter how famous he is is treated equally. All artists will make money depending on how many listeners per month only. We are not interested in any bounding contracts but an initial fee to register as a client of ours and a second fee for each song or a discounted price for albums that they choose to publish on our music hub. Of course royalties will be paid directly to the client based on how many listeners he achieves per month.

We hope to achieve a global music hub that is affordable for our streaming customers as well as our clients who wish to publish their music on our stream that they are able to afford the prices we offer so that we can benefit from their music and that they are able to benefit off using our music hub.

2. Our customers will have two options when registering to stream the music we provide:

Option A	Option B
<ul style="list-style-type: none">- A free Service- Adds will be played every 10 minutes- Unable to access newly leaked music for 1 week- Unable to personally download music to listen to offline- Limited skips per genre playlists made by the music hub- Lower Quality music	<ul style="list-style-type: none">- Monthly fee (discounted for students)- No adds- Access to "just released" music in real time- Able to store music, make playlists, save favourite artists etc..- Able to download music and listen offline- Unlimited Skips- Top quality music

The artists' registered with us who wish to upload their music onto our music hub will have to pay an initial fee to start an account as well as pay a monthly membership fee to stay with us and pay a fee to upload a song or album. He will be rewarded based on how many listeners he attracts to his songs as well as his independent page made for him as an artist, he will also be awarded bonuses based on his rating from 5 stars that customers are able to vote on. Of course his main source of income will come from how many listeners he is able to achieve compared to other artists' on our platform.

The account features of the artist will include:

Artist Side (what he can see)	Customer side (what users of the can see)
<ul style="list-style-type: none">- His income depending on how many listeners he gets per month- His ranking compared to other artists- How “hot” he is in a given week of his released song.- His rating out of 5 stars	<ul style="list-style-type: none">- All the artists’ songs and albums on a personalized page- How many people listen to a specific song- Rating out of 5- Able to download artists’ music

3. The ways we will be making sure that the projects’ being successful are:
 - by keeping a track of every major activity on the hub such as searches, download, likes, number of listeners, etc.
 - keeping a check that it’s fair to all the artists. Uploading charge/fee wont be really high and the payment based on their tracks’ popularity will be fairly higher than what they paid for initially.
 - As mentioned above the non-premium account will have ad-streaming every 10 minutes which in-turn helps us maintain the revenue. In simpler simpler words, for ad-services other companies will be paying us to circulate their ad and the charges for these companies will be on minimum weekly basis. Because of this scheme music hub kind off holds a win-win situation as non-premium accounts will have ads hence, incoming funds will be from the ad-companies and for premium accounts users will be charged monthly. So basically, this will cross-check that the projects’ overall won’t exceed the money provided by the investors’ contract.
 - One of the major factors for this music hub is to make it internationally available for various countries, opening us a broad spectrum to gather more and more uses. Next thing will be setting a fair price for premium accounts in various currencies (not making it too expensive for countries with comparatively low economy that Canada)
 - Since, now-a-days we have many other different kinds of music streaming applications out in the market we have to make this project/music hub more versatile. This may seem like a small factor but we think this plays a very important role because keeping the hub versatile will attract people with all kinds of music taste not just limiting to pop, hip-hop, rap and country. Adding a small section for some renowned international songs and artists from other countries will also provide a big step towards growing the user pool.
4. Talking about the infrastructure of the project, It’s not a vast set of hardware or softwares. First thing first we need a user-friendly application that runs on various operating systems (including smartphones, computers, iPads).

Next big thing that will be the backbone of this project will be a cloud server. This is the most important component/infrastructure since all the data- music, artists' database, user accounts will be stored here. This server should be easily accessible with 24/7 upload and download availability.

This project will require a BI/AI software running non-stop in real-time that tracks every single activity on the music hub. This will also provide us the stats weekly, monthly and yearly.

Last but not the least, we will require a secure service for all the transactions through different financial institutions. Online fraud and unsecured payment portals are very common these days so one of our top priorities will be making sure we have a secured gateway for the user to carry any transaction (paying for Premium account and or artists' page).