CS653 Project
Online Music Sharing Platform

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1 Initial abstract

We plan to create an online music platform for people. It can be used to create playlists, play music, upload and share songs with each other. We will use the widely used Yesod Framework in Haskell to implement the same. Since the platform would require file IO, Monads in Haskell would be very useful. Sharing platforms are often used for sharing malicious content. Haskell's type safety features can help rule out these Run-time vulnerabilities as compile time errors. Also, a platform at this scale would require using a lot of callbacks to make it non-blocking. But, haskell's run-time is inherently asynchronous which makes it much more convenient

2 Actual implementation

We have completed all the goals that we proposed in our initial abstract. We also added new features on top of what we initially proposed. We add functionality to allow users to follow other users and only get updates regarding their activity. We have also added functionality of search which allows us to search for users and songs so that we can find new users and follow them to get updates of their uploads. We also implemented a full fleged player to allow streaming of the songs available on the website.