

# TO DEVELOP A MUSIC SHARING WEBSITE WITH WEB ANALYTICS AND SERVICE-ORIENTED ARCHITECTURE

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## ABSTRACT

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The aim of this is to create a music playlist sharing website by implementing Service-oriented Architecture and web service concept in it. Users are able to share the playlist created on the third-party website or applications by consuming the services provided in the Application Programming Layer. The website created a simple playlist sharing code in html in order to let normal users to consume the service and share their playlist easily.

For example, there only three steps that need to be done by normal users to share their playlists. First, users use the search engine provided to search for desired music file and add them into their playlist. Second, choose a preferred flash playlist player for the playlist. Third, copy the embed code generated and paste it on any html-enabled website platform. Any website which executed the embed code will call the service from our system and load the player and playlist into their website. The concept is exactly same as video sharing service from YouTube.

Besides that, an analytical tool is also implemented in the system to analyze every playlist played. Users can see how often their music and playlist are viewed in different geographic regions, as well as how popular they are relative to all music in that market or genre over a given period of time. The most important function of the analytic tool is to provide the most accurate search result based on the data collected.

The system is also going to consume services from Google API and Amazon Web Services in order to provide more functionality to the users. The function taken from Google API will be the YouTube data API, where users can also search and add YouTube's video into their playlist. Meanwhile, album art of the music shared will be taken from Amazon Web Services.