

Music Lounge Project Report

CS-275

Members: Taylor Glietz, Samyam Shrestha, Saurav Singh

Concept

Due to the lack of free, synchronized music-hosting, we decided to change part of our original concept. For this new lounge site to work, the artists will subscribe and voluntarily upload music, permitting us to broadcast their music on our site. The content will be hosted locally on our server. Users can subscribe to artists and go to any artist page and listen to music.

Design

Client

Clients do not need to authenticate to view profile pages or listen to music. Client authentication is needed to upload music. The client communicates with the server for authentication and then maintains a session. The homepage consists of 10 random songs, with buttons to navigate to the current user's profile and search for other artists.

Server

The server will facilitate user authentication, music playback, and generating profile pages. For user authentication, the server will reach out to the database and confirm authentication or attempt to add a new user. The server uses a custom module, `songController`, to manage uploading and serving music from the local filesystem. A second custom module, `profileController`, serves profile pages from a template HTML file and SQL queries.

Database

Our final database design consists of two tables – users for user login information and detail profile information and subscriptions for follow/subscription tracking. In this new schema, users are no longer limited to a specific number of subscriptions. Also, all users can upload their own music.

users		subscriptions	
userID	INT	subscribed	INT
username	VARCHAR(30)	subscribedto	INT
password	CHAR(65)		
profilePict	VARCHAR(60)		
genre	VARCHAR(30)		
originCity	VARCHAR(50)		
activeSince	YEAR		

Figure 1: Example Schema

Schedule

	11/29/2018	11/30/2018	12/1/2018	12/2/2018	12/3/2018	12/4/2018	12/5/2018	12/6/2018	12/7/2018	12/8/2018	12/9/2018	12/10/2018	12/11/2018
Client HTML								Saurav/Samyam					
Music Listening				Saurav									
Login/Registration										Saurav/Samyam			
Profile Pages										Taylor/Samyam			
Subscriptions										Taylor			
Search											Taylor		
Documentation												Saurav/Samyam/Taylor	

Figure 2: Gantt Chart