

Project 2 Milestone

Group:

Kate Reynolds kare6804@colorado.edu

Lauren Paredes lapa5112@colorado.edu

Giuliano Costa gico3977@colorado.edu

Muluken Chekilie much6797@colorado.edu

Zixuan Ni zini8743@colorado.edu

Carlos Bueno cabu6971@colorado.edu

Project Features list

- OpenGL visualization (WebGL)
 - Reads waveform from uploaded .mp3. Based on waveform procedurally generates a 2D animated video in real-time. Various settings to change colors, speed, and procedural shapes.
- Search from library of music
 - The user should be able to pick a song or randomly generate one from the library using a search bar.
- Save video/gif
 - Allows the user to save the visualization created with the song to their account so that they can go back and view it in the future
- Create account
 - User will be able to create a login that will take them to their own page of visualizations and saved videos/gifs
- Share to social media
 - Choose the music you want to share and share it to twitter, facebook etc.
- Share to feed
 - User can post a video to their account and scroll through a feed where they can view the visualizations that other users have posted

Requirements

- Open GL visualization
 - As a person desiring visuals for my music, I should be able to have visuals computer-generated for me so that I can further enjoy and experience my music
 - Analyzes waveforms at different frequencies in real-time to output visuals.
- Search from library of music
 - As a user, I should be able to upload my own music, or search/randomly generate from a library of music
 - File upload system/file reader for uploading music, and connecting to Spotify's api in order to have a search capability for music or the option to randomly choose a song.
- Save video/gif
 - As a user, I should be able to save my video so that I can rewatch them in the future from my camera roll

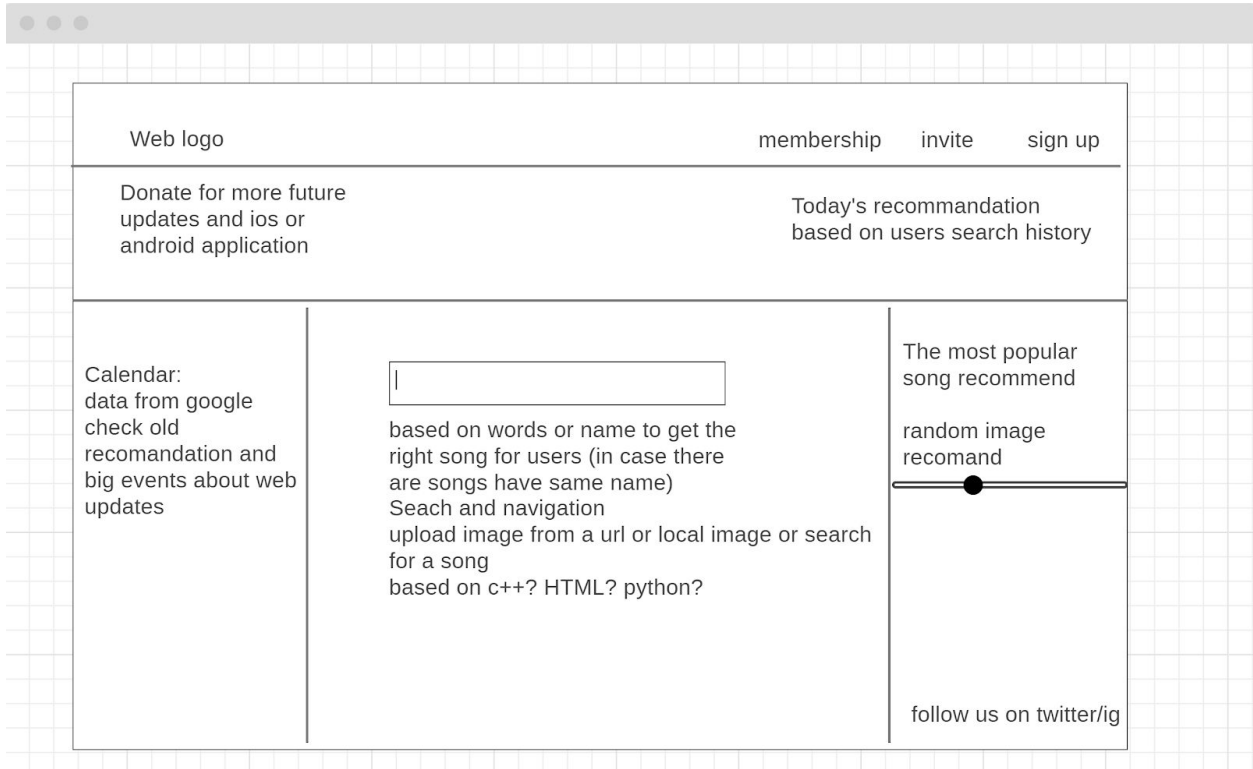
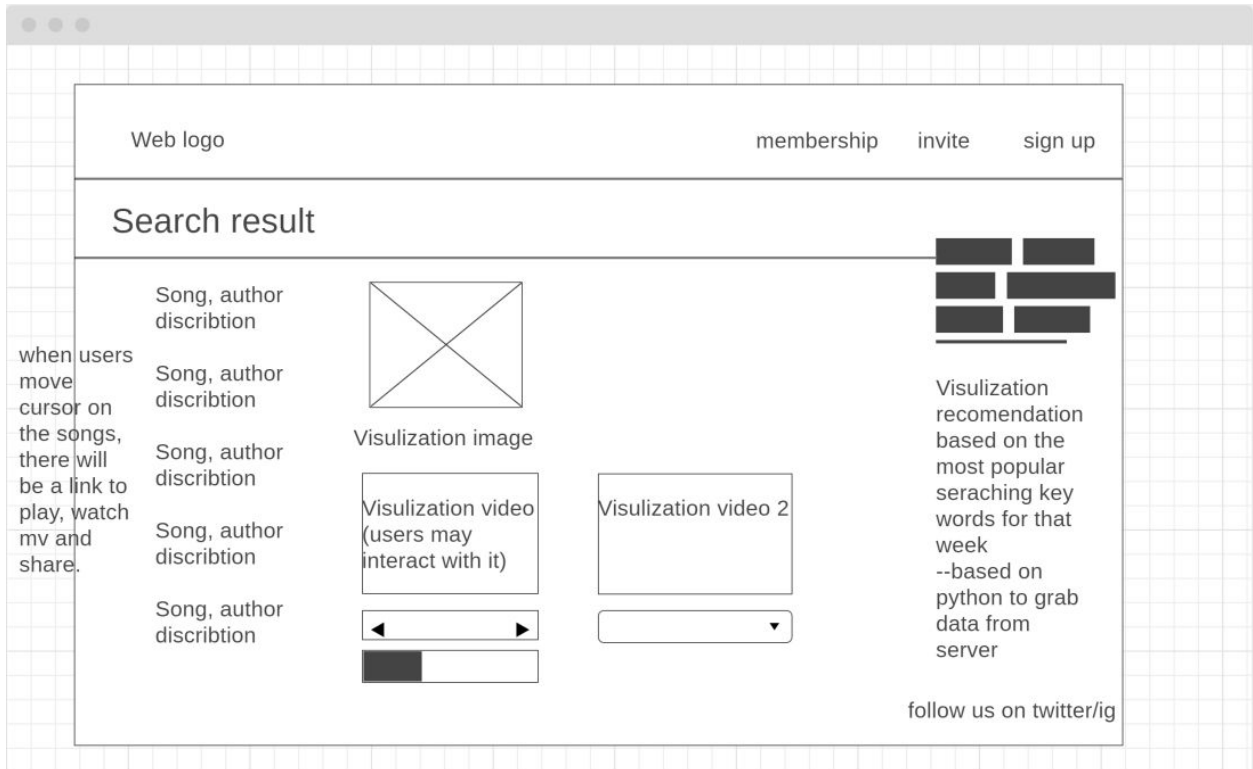
- Grab the url of the video, when the user clicks download, it will download the video data from the link.
- Create account
 - As a user, I should be able to create an account so that I can save and access my videos
 - Server will save the data from every new user(account), password, username and basic user's data.
- Share to social media
 - As a user, I should be able to share my creations and music with others so that they can see the capabilities of the app and also the songs I am interested in
 - Using Instagram/Facebook API, a user's social media account can be linked to quickly share.
- Share to feed
 - As a user I should be able to post creations so that I can view my own posts and others in an easy to follow manner.
 - Based on saved files in the user's database, creates a post on a public page which displays a preview of the video for others to see.

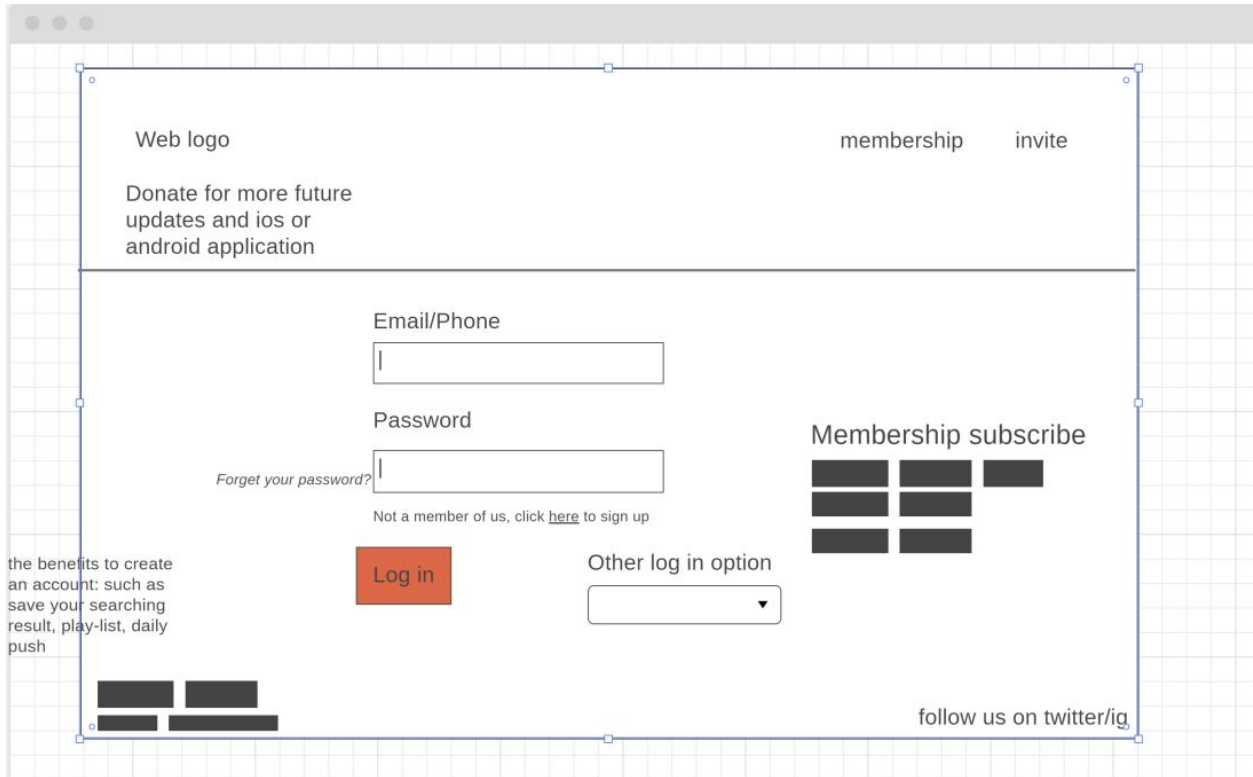
Project Plan

Backlog	Sprint	TO DO	Doing	Verify	Done
	Get website started (10/02/2020)				
	Theme of website (logos, anchors etc..) (10/02/2020)				
	Make home page with an about us (10/02/2020)				
	Make login screen (10/05/2020)				
	Login/creati				

	ng account (10/05/2020)				
Open GL Visualizatio n(TBD)					
Connect to spotify using their api (TBD)					
Searching library for music (TBD)					
Save video/gif (TBD)					
Sharing to social media feature (TBD)					
Share to feed feature (TBD)					

Wireframes:





Individual Contributions:

Project Management

<https://csci-3308-fa20-4.atlassian.net/browse/MI4-9?atlOrigin=eyJpIjoiZWExOGY5ZWJNDI2NDNmNDg1OGY0MmFhYzI3YjMxMTMiLCJwIjoiajJ9>

Giuliano - WebGL Integration C/C++

Lauren - backend python/c++/HTML coding

Muluken- create function/c++

Kate - webGL integration/c++ or html

Carlos-css+html frontend/scripting

Zixuan Ni- c++/python coding