

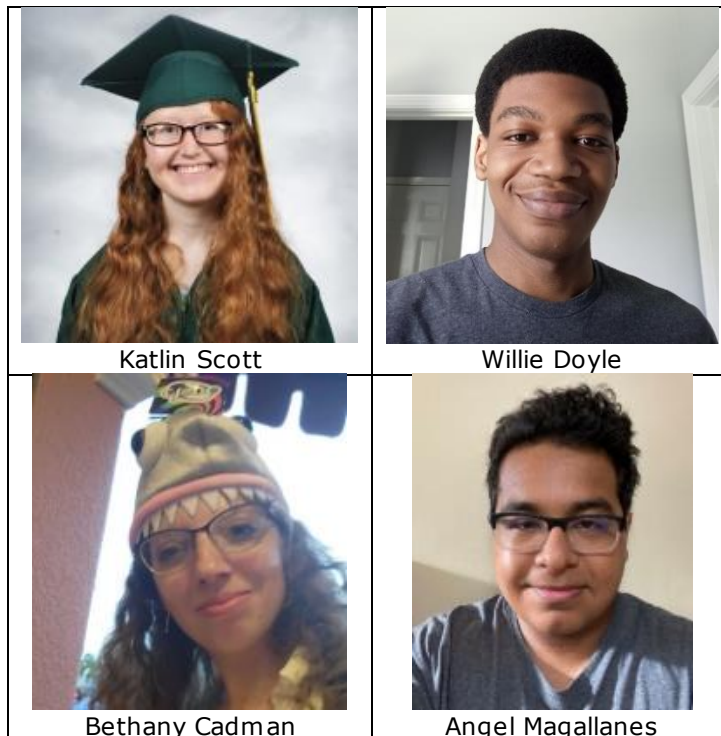
## SP-22 - Dynamic Rhythm Game

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**Date: August 31, 2023**

### Project Team

<b>Roles</b>	<b>Name</b>	<b>Major responsibilities</b>	<b>Contact (Cell Phone)</b>
Team leader	Katlin Scott	Oversee time management; Facilitate team collaboration and research; Confirm documentation quality; Assist with development and others when needed.	██████████
Team members	Willie Doyle	Lead development; Manage team collaboration programs; Research market competitors.	██████████
	Bethany Cadman	Website design; Assistant developer; Research Music and AI; Assistance in other areas when needed.	██████████
	Angel Magallanes	Conduct testing on products; Document any issues encountered; Assist with tasks when needed.	██████████
Advisor / Instructor	Sharon Perry	Facilitate project progress; advise on project planning and management.	████████████████████



## **Project Overview**

Have you ever listened to a song and wished you could play that particular song in a rhythm game? Or maybe even wanted more of your own songs in a rhythm game without having to wait for a new DLC pack to be released?

Well, our dynamic rhythm game will create procedurally generated 'rhythm game levels' (also known as 'maps') as songs are selected. We plan on achieving this by utilizing AI to detect various beats and inflections within the music. The music will be sourced from the largest music library in the world, Spotify, giving us access to over 100 million songs and near-endless possibilities.

## **Project website**

We will be using a GitHub repository for our website.

<https://dynamicrhythmteam.github.io/>

## **Final Deliverables - Specific to Your Project**

1. Website
2. GitHub Link
3. Final Report

## **Milestone Events (Prototypes, Draft Reports, Code Reviews, etc.)**

#1 Complete Project Requirements - By September 10th

#2 Create Game Platform - By September 24th

#3 Prototype Game - By October 22nd

#4 Design Review and Rework - By November 19th

#5 Final Report - By December 3rd

## Meeting Schedule Date/Time

For our meetings, we plan to briefly get together after class to discuss progress or anything that needs to be done. However, when we need additional meetings, we will meet either on Fridays or Saturdays on Discord. Specific times depend on everyone's availability and may differ each time.

## Collaboration and Communication Plan

For meetings, we plan to meet on our Discord server. For collaboration with the project deliverables and technical documentation, we plan to use Google Docs and/or MS Word Online. For project implementation, we plan to use Unity.

## Project Schedule and Task Planning

Project Name:		SP-22: Dynamic Rhythm Game																			
Report Date:		9/2/2023																			
Phase One	Deliverable	Tasks	Complete%	Current Status Memo	Assigned To	Milestone #1				Milestone #2				Milestone #3				C-Day			
						09/03	09/10	09/17	09/24	10/01	10/08	10/15	10/22	10/29	11/05	11/12	11/19	11/26	12/03		
	Requirements	Define requirements	25%	Working on Finishing Up	All	10	5														
		Review requirements with SP	0%		All	2	2														
	Project design	Base game platform	0%		Willie		5	15	15	5	4										
		API Spotify implementation	0%					5	10	7											
		User interaction design	0%					5	10	8											
		Develop AI to detect beats	0%				10	10	5	5											
		Develop working prototype	0%					5	10	10	3										
		Test prototype	0%							7	9	5									
	Development	Review prototype design	0%		All							8	5	10							
		Rework requirements	0%						8	10	10	5									
		Document updated design	0%									5	10								
		Test product	0%									8	10	10							
	Final report	Website preparation	5%	Partially Started/Set Up	Bethany, Katlin																
		Presentation preparation	0%												5	10	10				
Poster preparation		0%													5	10					
Final report submission to D2L and project owner		0%															5				
Phase Two	Additional	Storage of (pre-)generated songs	0%																		
		User editing	0%																		
				Total work hours	331	12	12	15	30	35	36	30	28	20	28	20	25	15	25		
* formally define how you will develop this project including source code management																					
Legend																					
Planned																					
Delayed																					
Number Work: man hours																					

## Version Control Plan

We have created a GitHub repository that everyone in the group has access to for the ability to collaborate on the project.

Link: <https://github.com/DynamicRhythmTeam>