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Team 5: Initial Project Description

Project Name: SwapStream

Project Synopsis: Web application that seamlessly integrates various music streaming platforms

Project Description: The project that our team has decided on deals with integrating music streaming platforms for easy user access. Our project has the goal of giving the user the ability to access all songs on one platform. This solves the problem of having to utilize multiple different streaming sites to get all the music they are wanting. This will be accomplished through combining various existing platforms by using their API's so that all the songs will be in one place. Our current execution plan is to utilize a combination of typescript, css and html to create a web application for easy user access.

Project Milestones:

- Gantt Chart:

Task:	Oct	Nov	Dec	Feb	Mar	Apr
Determine and Gather APIs	Oct-15th					
Set-Up Basic Web Application		Nov-15th				
Integrate API's			Dec-15th			
Debug/Add Functionalities				Feb-15th		
Stylize User Interface					Mar-15th	
Finish Documentation						Apr-15th

- Fall 2021
 - Oct 15th: Determine and gather the API's for each streaming service that we intend on integrating (such as Spotify, Apple Music, etc)
 - Nov 15th: Set up basic web application (no extra design, just bare bones) to get a baseline for the rest of our project
 - Dec 15th: Integrate API's and music functionality (start/stop button and a way to select various songs)
- Spring 2022
 - Feb 15th: Debug program and add in extra functionalities for users ease (such as a replay button, a way to add songs to a playlist, etc.)
 - March 15th: Web application user interface complete with styling (make the web application look professional and add graphics as necessary)
 - April 15th: Finish all documentation and any additional materials
- Defining roles:
 - As a team we have decided to work together on each element of the project rather than splitting it up. This project in particular seems more collaborative rather than many small individual tasks. We may end up divvying up more elements of the project as they come up based on our strengths, but this is where we are at right now.

Project Budget:

The cost of this project would be negligible because the APIs along with the platforms to utilize these languages are free. There will also be no vendors or special training needed.