

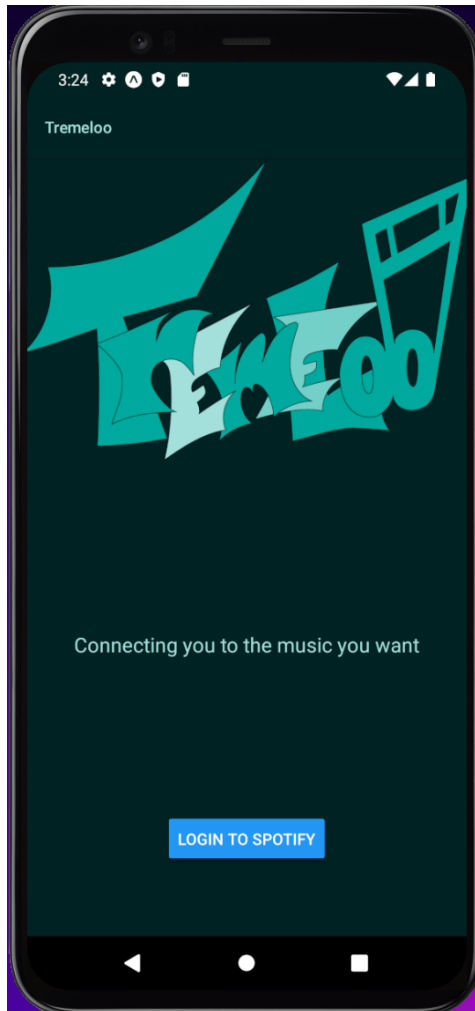
(Draft)

Tremeloo is a mobile application implemented with JavaScript and TypeScript utilizing React Native components and Spotify API endpoints. The app receives data from a user's Spotify account and displays their playlists. The app will then be able to parse Spotify's database of music and suggest music tracks based off the content in each individual playlist.

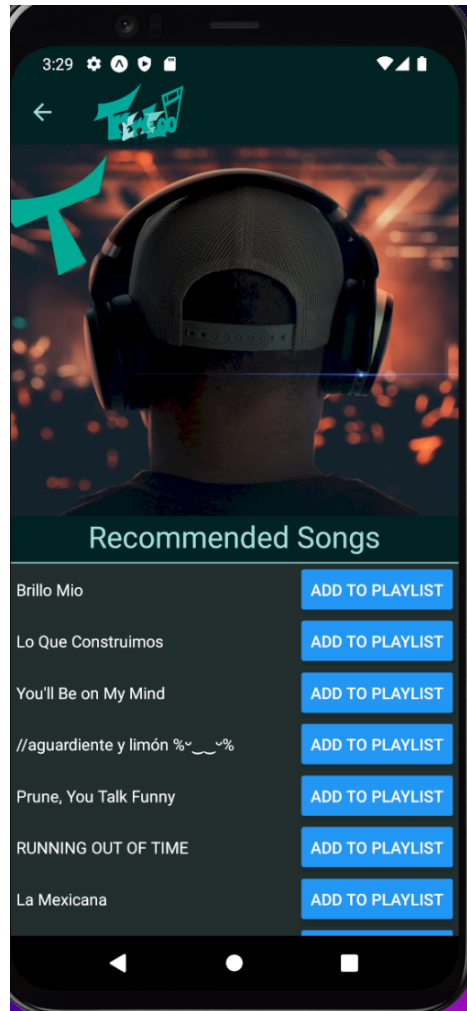
The development of the Tremeloo application is implemented using TypeScript for the backend and JavaScript for the front end. React, React Native, React Navigation and Expo web browser libraries are used in developing both the UI and Backend. The expo web browser library is used to help with the authentication process with Spotify API. The following Gantt chart reflects the scope of the entire project process.

Project Name:		Spotify Music Suggestions																	
Report Date:		4/6/2023																	
		Milestone #1									Milestone #2								
Deliverable	Tasks	Assigned To	01/12	01/19	01/26	02/02	02/09	02/16	02/23	03/02	03/09	03/16	03/23	03/30	04/06	04/13	04/20	04/27	
Requirements	Meet with group	All	8	8															
	Assign roles	All				2													
Research	Define requirements	Mark, Vincent			2	2	2												
	Review requirements with group	All				3	1												
	React-Native documentation	All			4	4													
	Spotify API documentation	All			4	4													
Project Design	Define tech required*	All				2	2												
	Discussion of the flow of the app (ERD concept design)	Khemrind, Vincent				2	4												
	Create UI concept of the flow of the app	Leiko, Vincent				2	4												
	Access Spotify Database	Khemrind, Leiko					4	2											
	Integrate with user / user data	Khemrind, Leiko						6	8										
	Develop music recommendation algorithm	All						5	10	10									
	Update playlist following recommendations	Khemrind							10	10									
	Develop working prototype	Khemrind, Leiko							15	15	5								
	Test prototype	All								4		2							
	Development	Review prototype design	All								2	2	2						
	Rework requirements	All											6		6	6			
	Document changes	Mark														3	4		
	QA Testing	All														5	5	5	
			Total work hours	249	8	8	10	21	17	13	43	39	11	4	8	10	19	18	16
Legend																			
Planned																			
Delayed																			
Number	Work: man hours																		

UI Design



Login Page



Recommendation Page

Software Requirements Specification (Results)

	requirement	success	fail	comments
gain access to user's spotify account	send request for user authorization			
	send request for access token			
	send request for refresh token (when token expires)			
load and display list of user's playlists	send get request for list of user's playlist			
	display list of playlists			
	display playlist cover image			
	display list name			
load and display list of recommended songs	send get playlist request			
	pass MD into recommendation algorithm			
	display returned list of song names			
	send POST request for chosen song by user			
	access MD from each song within given playlist			
	access Spotify song DB			
	compare MD of user's playlist songs to MD of Spotify DB			
	generate list of songs matching MD criteria			
	add recommended song to user playlist			Currently in the process of implementing this functionality
	UI Design Suggestions			
	Tremeloo logo image is cut off in navigation menu			
	display image for recommended songs			
	change add to playlist button to a + symbol in a box			

Conclusion

Our group is content with the current state of progress with our project. Moving into the next few weeks, we plan to discuss implementation of these UI design suggestions as well as completing the last objective in our test plan specification.