Team 14 WeMusic Sprint 1

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Project Description

Hotpot Music Share -- a web application that allows multiple users to vote for and listen to songs together in real-time

Our Implementation --

- Using Spotify to avoid music copyright issues
- More interaction features

Sprint 1 Goals

- Log In
- Create Public/Private Room
- Localization
- Join Room
- Collaborate Playlist
- Play Songs

Sprint 1 Gantt Chart

Purple: Kai	Green: Group	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Blue: Han-Yu	олости отогр	1112			100				1				
Yellow: Xiaoyu			We	ek1		Checkpoint 1		Week2		Checkpoint 2	We	ek2	Week3
	Sub Tasks	10/25	10/26	10/27	10/28	10/29	10/30	10/31	11/1		11/3	11/4	11/5
Sprint 1													
	Customize User												
Register	Guest User												
	Upload Interface												
	Link Account												
	Spotify Auth												
	Spotify Import												
Upload Song List	Build Data Model												
	Stream Interface												
Play Songs	Store Song States												
	Order Songs by Likes												
Prioritize Song List Order	Order Songs Manually												
	Dislike Field												
Skipping Songs	Play Next Song												
Localization	Public Room Entrance												
Create Public Room	Generate Room Key												
	Enter Code												
Join Room	Verify Location												
Debug and fix details													
Sprint 2 backlog													
Sprint 1 presentation													

API

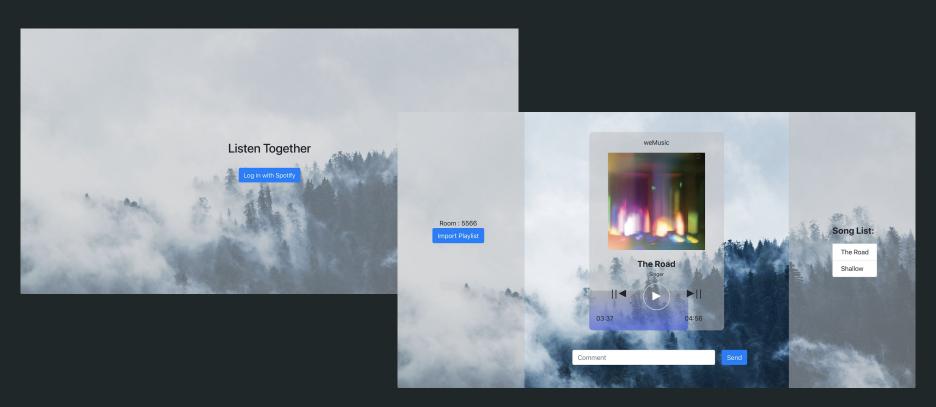
- Spotify API
 - Web API -- Get authorization from user, get user's data
 - Web Playback SDK -- Creating a new player instance and controlling its states



- Geolocation API
 - Get current position -- To determine if the user is close to the public room



Demo - WeMusic



Challenges Encountered

- Real-time?
 - Update status every second
- Using APIs
 - Read a lot of documentations/examples
- Too many redirections
 - Spotify: exchanging code numbers for access token
 - Room creation & entry: verify location & grant access
 - Pop-up windows instead of redirecting

- Restriction
 - Spotify Premium

Sprint 2 Plan

- Vote for songs
- Order songs according to votes
- Host can kick members out of a room
- Real-time interaction: comments

Questions and Feedback?

Thank you:)