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CS 30700 - Team 30

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## Project Charter

**Project Title:** Cloud Drive Music Player

**Problem Statement:** Google Drive is now a widely used application to store documents and files, and also it includes functionality to use these files, such as playing music and videos.

However, the music player in Google Drive only allows users to play one song at a time with a simple interface. Basically, users can only make a particular “usage” move after opening the particular file. For example, open a text and then read it, and open an audio format file and then play it. Focusing on the music or audio playing experiences, we want to create a more functional music player with a modern designed user interface which will be easier for users to get to audio files in Google Drive. If users store music files for playing, they will be able to get to the files in google drive just like searching for music online in music player applications like Spotify. Also, users can play audio files from lectures and speeches for study or revision and they don’t have to open it one at a time since it can have a list to store them. This music player can be a great help for users of Google Drive who want to get quick access to the audio files.

**Project Objectives:**

1. Logging into Google account.
2. Access to audio files in Google Drive.

3. Creating music lists.
4. Improve user experience in playing music files in Google Drive.
5. User-friendly and Intuitive UI.

**Project Stakeholder:**

Users: All Google Drive users

Developers: Zhe Chen, Dai Zhong, Pengyu Chen, Guojie Wen

Project Owner: Zhe Chen, Dai Zhong, Pengyu Chen, Guojie Wen

Project Manager: Guojie Wen

**Project Deliverables:** Our goal is to bring users a complete music playing experience and a user-friendly music player interface.

1. Google sign in for user authentication
2. Google Drive API for selecting folders of music files
3. Firebase for storing user playlists
4. ReactJS for web front end view and logics
5. Howler.js for audio streaming functionalities
6. Modern designed and easy to use interface
7. Many other smaller libraries for building with ReactJS, such as react-router, redux, react-redux-firebase, etc.