

# Software Development Plan

Sharic(temp name)

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# 1 Plan Introduction

This Software Development Plan provides the details of the planned development for Sharic CSCI, which is an application for users to share songs with people.

This application allows the user to post one song per day, and the song they post will be visible to either everyone/their friends/themselves. People can interact with the post such as upvote or comment, and there will be a 24 hours chat room open for all the people who shared the same song that day.

## 1.1 Project Deliverables

Deliverable and Due Dates		
Deliverable	Due Dates	Details
Features and UI Design	8	Since we change our topic, many of the old design have to be changed, this phase will go while the structure of the application being created
React Native Setup	7	
Setting up Firebase	7	
Login Page	9	There will be options to create an account, or login with google/apple/spotify
Profile Page	11	User will able to view their post history here
Setting Page	12	
Main Page	11	This is the main page without menu bar, including "recommendation of songs, your friends' posts" features, more will be made when design's settled
Menu Bar	10	Including functions to jump to profile/song sharing post/chat room pages
Login Information	9	About storing all the login information in the backend

Setting up general database	12	This database will include the groupchat's members each day, the context inside the chatroom; the posts' information including the person who posted it (which will link to the user's database), the song they've posted (linking to the song database), the upvotes and comments, and the date posted.
Setting up user database	10	This database will include the user's username, password, account they linked to, songs' id they've shared (which will link to the song database), and their friend list.
Posting feature	10	Posting features will include the person who posted it (which will link to the user's database), the song they've posted (linking to the song database), the upvotes and comments, and the date posted.
Chat room feature	12	Chatroom will include the groupchat's members each day, the context inside the chatroom.
Friend feature	11	
Final Tweaks	13	
Software Testing	14	
Final Poster	14	

\* There will be changes made to this schedule due to changes in design

## 2 Project Resources

### 2.1 Hardware Resources

Server side of this application will be built on firebase, and to access this application the user either needs a smartphone or a simulator in an android or ios system.

### 2.2 Software Resources

To run this React Native application, Android 5.0+ or IOS 12+ is required. This application's content will involve using Node.js, json, and MySQL. This

project will be developed on Visual Studio and VS code. APIs relating to songs, such as Spotify API and apple music's API will be used.

### 3 Project Organization / Human Resources

Juan Ballesteros, Owen Dewing, Joanna Estrada and Kelly Tao are the members in the team. In general, everyone will be a full-stack developer. Joanna and Owen are in charge of designing the features and UI for this application. Juan will build the structure of pages, properties about the Login page, and profile page. Kelly will work on the databases and the posting feature. Joanna will build song-related features such as "suggesting songs", while providing help for others on Spotify APIs. Owen will focus on building chat and chat room features.

### 4 Schedule

This section provides schedule information for the Sharic (temp name) project.

#### 4.1 GANTT Chart

The new chart is not yet updated for there are changes that need to be determined after the application's fully designed, but in general it will follow the old schedule.

<https://github.com/jxbal/planit/blob/main/documents/initial-schedule.md>

#### 4.2 Task/Resource Table

Task	Requirement resources
Setting up React Native	node.js, smartphone simulator
Setting up Firebase	Google account
Features and UI Design	
User Information Database	Firebase
Login Page / Information	User information database

Profile Page	User Information database
General Database	Songs database and APIs
Menu Bar	React Native setup
Main Page	General Database, Song database and APIs
Chat room Features	General Database and User Database
Posting Features	General, Song, and User Database
Friend Features	User Database