

We're going to build a music website using what we learnt in this course. It's a single person project.

NOTE: if you share your code with other students and I found out later, you'll get 0 for your project. If you copy code from other students, during presentation, if you couldn't answer my questions, you'll lose points for the question you couldn't answer.

Here's the project requirements:

1. The client and server side are separated project. We'll use in-memory database for this project.
2. You need to make the client project design(layout) like the screenshots. For all icons in the design, you can use [font awesome](#) or download icons online. And you're welcome to change the colors.
3. There's a login page, user can put username/password to login. All other requested need to be authenticated. You can prepopulate several users in DB. If username and password doesn't match, display "Error" message to user.
  - a. Here is the idea on how you implement the login feature:
    - i. When user clicks login button with username and password, if you can find the user with correct password, generated a string with current datetime with username, then send back to client side
    - ii. In the client side, get the generated string, store it in [session storage](#).
    - iii. For all the remaining requests, always pass the generated string located in session storage to server side. And server side verify if it has a string with the request. If has, allow access, if not, redirect to login page.

your Logo here      Username:  Password:

welcome to music web site

your Logo here      Username:  Password:

welcome to music web site

Username or password is wrong

4. Once user logs in, they can see a table of song list and their playlist if they created before. The song list is pre-populated song list in the in-memory database.

Your Logo

Logout

Song you may interest

Id	title	Release Date	Actions
1	See you again	2020-01-01	+
2	Baby Baby	2019-01-01	+

Your Playlist

Index	title	Actions
1	Baby Baby	⊖ ⊕

Your Logo

Logout

Song you may interest

Id	title	Release Date	Action
1	---	---	⊕
2	---	---	⊕

Your playlist

No Songs in your playlist

- User can add new songs to their playlist, can also remove songs from their playlist.

Your Logo

Logout

Song you may interest

Id	title	Release Date	Actions
1	See you again	2020-01-01	+
2	Baby Baby	2019-01-01	+

Your Playlist

Index	title	Actions
1	Baby Baby	⊖ ⊕

Click this button, add song to playlist below

Click this button, remove song from user's playlist

6. Different users should see different playlist. Song playlist belongs to users
7. There's a logout button. Once user logs out, see the login page again.
  - a. Here is the idea of implementing logout
    - i. Remove the string from session storage

8. Search Songs by song title: type keyword in the search bar, it'll list the song list which song title contains the word you input, case insensitive.

Your Logo

Search

Logout

Songs you may interest

Id	title	Release Date	Actions
1	See you again	-----	(+)
2	Baby Baby	-----	(+)

Your playList

Index	title	Actions	
1	See you again	(-)	(+)
2	Baby baby	(-)	(+)

Your Logo

Search

Logout

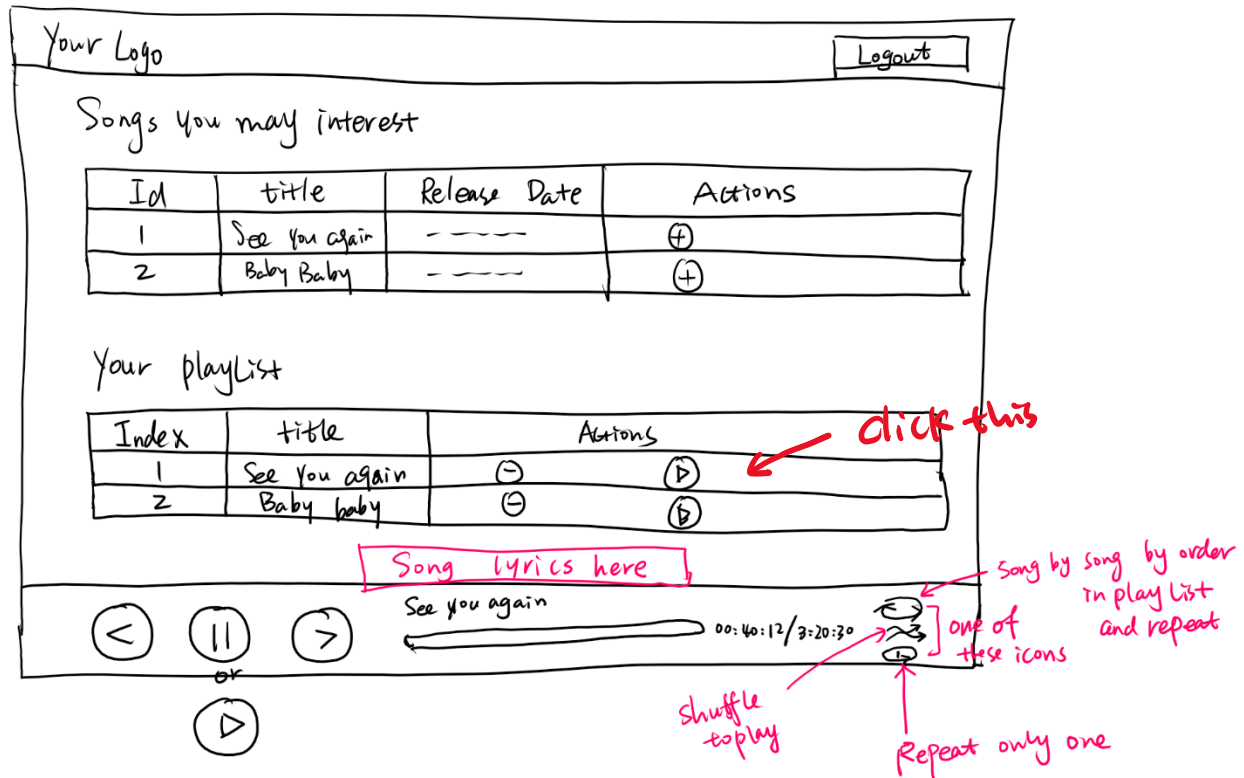
Results of 'spider'

Index	title	Release Date	Actions
1	Baby spider	-----	(+)
2	itsy Bitsy spider	-----	(+)

Your playList

Index	title	Actions	
1	See you again	(-)	(+)
2	Baby baby	(-)	(+)

9. (3 Extra Points) When we click the play icon, it'll have the song playbar at the end of the screen. In the playbar, it'll display "song title", play progress bar, current play time, song total time, repeat module: repeat all songs, repeat only one song, play shuffle songs. You can click "prev" or "next" button to change songs. You can click "play or pause" button to play or pause the song. You can click the icon to change play mode.



#### NOTES:

1. TA and I will check your status every day in the morning. You're required to attend in the classroom, if you're sick, we'll call you on Teams to show your progress.
2. Since it's single person project, we'll do presentation in person.
3. Your project grade is given based on the presentation.
4. What to submit:
  - a. The source code of the project
  - b. The github link of the project

Here is the status check daily and presentation order:

613786, 613736, 613779, 613732, 614272,

613801, 614246, 614134, 613832, 613726,

614150, 613746, 613721, 614174, 613483,  
613822, 613845, 614216, 613867, 613727,  
613816, 613783, 614147, 613775, 614182,  
614185, 613821, 614163, 613757, 613834,  
614183, 614191, 614144, 613738, 614214,  
614190, 613841, 613734, 613785, 613818,  
613754, 614173, 614142