

CSCI-C323 – Mobile App Dev (Android)

Fall 2021

Project 10

Due by Tuesday, November 30, 2021 at 11:59pm via Canvas

Instructions:

Design the app based on the description given below. Create your project with the following package name: **com.c323proj10.yourname***. Submit the complete project as compressed (ZIP file) on Canvas. Make sure your app works and the code includes adequate comments!

Requirements:

Design a simple app demonstrating the use of [Material Design Components](#). For this application, you will be designing and implementing “**Audio / Video Player**” by making use of a [Navigation Drawer](#), Bottom Sheets, and toggle switches.

Layout Details:

Activity 1:

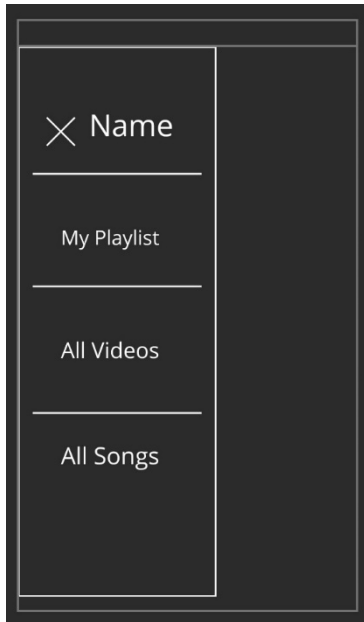
- 1) First, you will create a Navigation Menu consisting of items – “My Playlist”, “All Videos”, “All Songs.”
- 2) Each of these menu item will have individual fragments:
 - i. **My Playlist** menu should display your favorite videos and songs.
 - ii. **All Videos** menu should display all the video present in the device in a list view / recycler view. Here the videos displayed in the List / Recycler View should have a favorite icon which will allow you to add videos to your favorites and get it displayed on “My-Playlist”.
 - iii. **All Songs** menu should display all the songs present in the device in a list view / recycler view. Here the songs displayed in the List / Recycler View should have a favorite icon which will allow you to add songs to your favorites and get them displayed on “My-Playlist”.
- 3) There should be a Bottom Sheet with a pre-defined peek height, and on expanding, it should display the song file which is being played currently, a progress bar showing how much video has been played, a play button, and a pause button.
- 4) It should have a toggle switch to activate shuffle play.

Hints and Notes: -

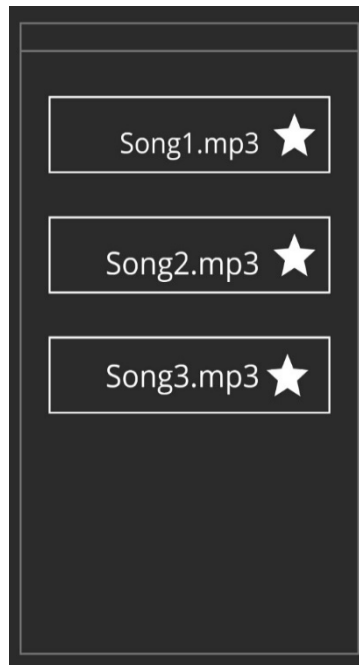
- 1) As soon as one song finishes, it should automatically start the next one.
- 2) When Shuffle Play is ON, the songs should be played in random order.
- 3) You MUST use **material design components** for designing the UI components.
- 4) Please include the audio / video files along with your project ZIP folder.
- 5) Check out "[Sheets: Bottom](#)" and "[Bottom Sheet Behavior](#)" to understand how to use BottomSheet.
- 6) Also, check out "[VideoView](#)" to understand how to use VideoView for VideoPlayer.

Layout Designs:

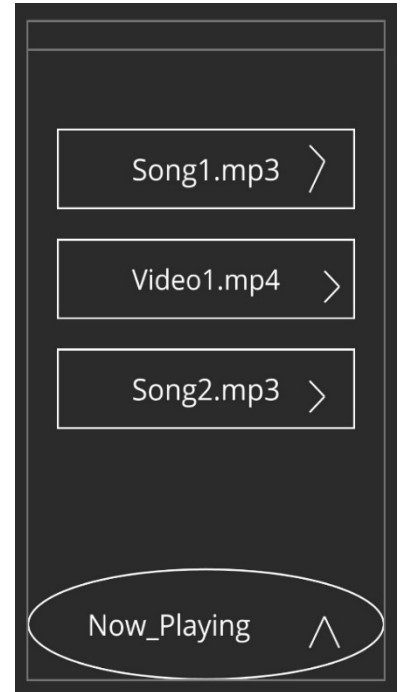
Activity 1 (Navigation Drawer)



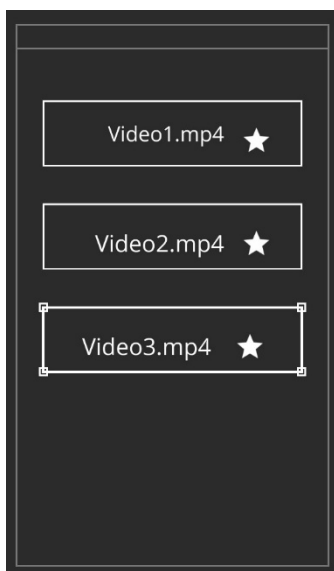
“All Songs” Fragment
(Audio files in List / Recycler View
along with add to favorites button)



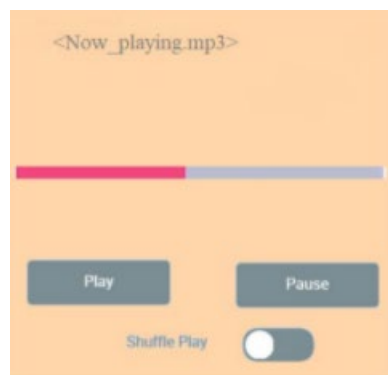
My Playlist
Fragment



“All Videos” Fragment
(Video files in List / Recycler View
along with add to favorites button)



(Expanded Bottom Sheet Layout)



Grading Rubric:

Criteria	Points
Online Submission (100 points)	
Proper Layout and Design of Activity 1	15
Implementing Navigation Drawer along with all the fragments	30
Proper implementation of Material Design components for designing the UI components	30
Displaying Bottom Sheet along with progress bar	15
Successful compilation and appropriate comments	10