

Assignment 1

Learning Objectives

This assessment evaluates your understanding of:

1. Creating a single screen application in React Native
2. Creating a user interface with common user interface elements
3. Implementing styling and layout

When creating your solution, you must use the coding practices and conventions demonstrated in class. A solution that does not reflect what was taught in class will not be accepted (0 grade) and/or be subject to an academic integrity review.

Submission Instructions

For your submission to be graded, you must provide a zip file of your project.

1. Creating your project:
 - Projects must be created using the Expo CLI (**`npx create-expo-app -template`**)
 - When creating your project, name the project: **`SHORTS-FIRSTNAME`** (replace **`FIRSTNAME`** with your name)
2. Create a zip file and submit
 - When finished, zip the entire project and name the zip file **`SHORTS-FIRSTNAME.zip`** (replace **`FIRSTNAME`** with your name)
 - Your finished zip file may be very large. Ensure you budget enough time to upload the zip file by the due date.
 - Submit your zip file to the dropbox.

Academic Integrity

- This is an individual assessment.
- **Permitted activities:** Usage of Internet to search for syntax only; usage of course materials
- **Not permitted:**
 - Following step-by-step tutorials
 - Posting assessments to homework help websites, such as Chegg or CourseHero
 - Discussion of solution or approaches with others; sharing/using a “reference” from someone
 - Using generative AI tools, such as ChatGPT, Copilot, etc

Implementation Guidelines

1. Code must be written in Javascript (not Typescript or any other language)
2. Usage of 3rd party UI frameworks is NOT permitted (example: React Paper, Material UI, etc)
3. You must use function based components, not class based components
4. Variables must be declared using let and const. No var declarations permitted.
5. Functions should be declared using arrow function syntax, example: `const abc = () => {}`
6. Implementation must follow techniques demonstrated in class.
7. In addition to the required functionality, learners are expected to use the coding conventions demonstrated in class, meaningful variable naming, and clearly organized code. Comments are helpful but not required.

Problem Description

Using React Native, create the user interface for a Youtube short of your choice (<https://www.youtube.com/shorts/>).

1. Choose your favorite Youtube short
2. Implement the required user interface as shown in the reference diagram (see assignment dropbox)
3. Ensure you customize the following to match your selected Youtube short
 - a. Image of the video. To obtain the video image, you can take a screenshot. Alternatively, go to the Youtube channel > Shorts > Right click on the video > Open Image in New tab.
 - b. Video name
 - c. Channel profile picture
 - d. Number of likes on the video
 - e. Number of comments on the video

Components

You are only allowed to use these components.

- <View>
- <Text>
- <Image>
- <ImageBackground>
- icons from the expo icon library: <https://icons.expo.fyi/Index>

You may NOT use any other component (example: Button, Pressable, Switch, Toggle, etc)
You are NOT permitted to use 3rd party component libraries like React Native Paper
You are NOT permitted to create custom components.

Layout and white spacing

To create the layout, you are only permitted to use the flexbox properties discussed in class, specifically:

- flexDirection
- justifyContent
- alignItems
- flex
- gap

You may use margin and padding where appropriate.

Styling

You may customize the fonts, colors, and icons to your liking. However, the layout must be similar.

END OF ASSESSMENT