

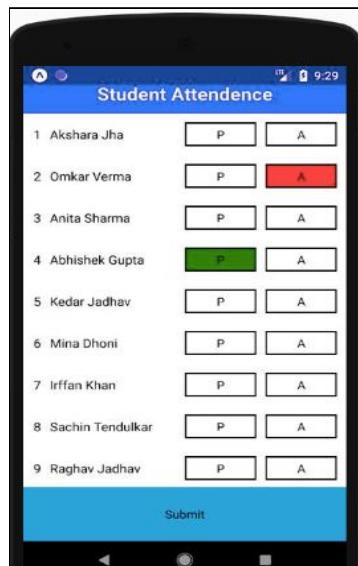
INSTRUCTIONS:**Goal of the Project:**

In the class you have learned to install expo on a local machine and generate an apk or ipa for publishing the app.

In this project, we shall practice the same concept and generate an apk (for android) and ipa (for iOS) for the app you already made called “Student Attendance App”.

Story:

You have already helped the school team in creating an application where teachers can see the list of students, and mark present/absent for a particular date. You are finally done with the attendance app. You want the others also to try and test this app.

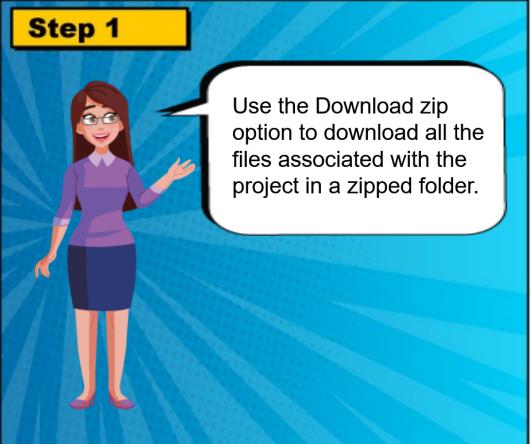
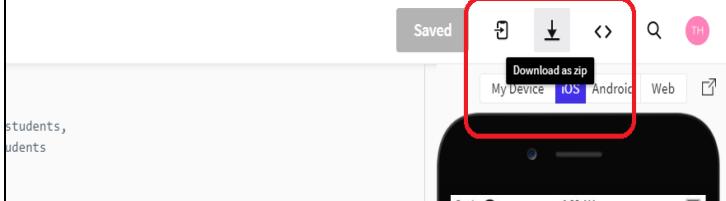
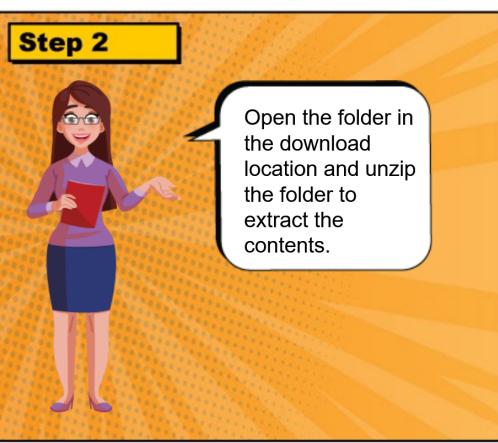
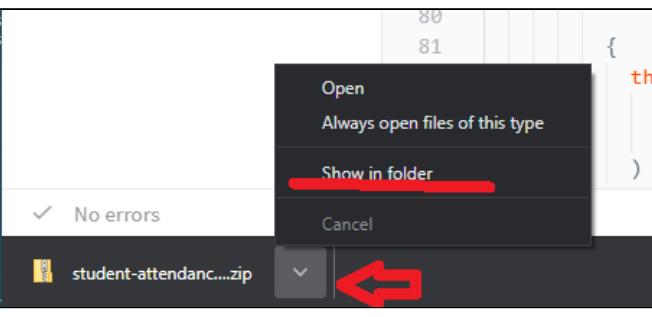


***This is just for your reference. We expect you to apply your own creativity in the project.**

Start of the Project:

1. Login to <https://snack.expo.io/>
2. Open the snack for the **Student Attendance App** that you created in Project-C60.
3. Open expo terminal (Node.js command Prompt for Windows and Terminal for Mac or Linux).
4. Check if expo is installed on your system. (**See hint 1**)

Specific Tasks to complete the Project:

Tasks to be done	Image/output
Step 1  <p>Use the Download zip option to download all the files associated with the project in a zipped folder.</p>	
Step 2  <p>Open the folder in the download location and unzip the folder to extract the contents.</p>	

Step 3

Go to terminal or Node.js and navigate to the folder where you just extracted the contents of your app. Use **cd** command to navigate.

```
C:\Users\Admin>cd Downloads
```

```
C:\Users\Admin\Downloads>_
```

```
C:\Users\Admin\Downloads\student-attendance-app--stage-2>_
```

Step 4

Now run the command **expo start** on terminal or node.js.

```
C:\Users\Admin\Downloads\student-attendance-app--stage-2>expo start
```

Step 5

Now we may need to install all the packages we had used in our app on our local machine. See Hint 4.

For example:

- **react**
- **React-native**
- **React-navigation**
- **Firebase**

Step 6

Use build commands in expo to create android apk or iOS ipa files. **See Hint 2.**

```
C:\Users\Admin [REDACTED].studentAttendance>expo build:android
```

```
There is a new version of expo-cli available (3.21.13).  
You are currently using expo-cli 3.21.5  
Install expo-cli globally using the package manager of your choice;  
for example: `npm install -g expo-cli` to get the latest version
```

```
? Choose the build type you would like: apk  
An Expo user account is required to proceed.  
? How would you like to authenticate? Log in with an existing Expo account  
? Username/Email Address: [REDACTED]il.com  
? Password: [hidden]  
Success. You are now logged in as [REDACTED]
```

Step 7

Modify the **app.json** file to update your app name and package name (bundler in case of iOS).

Your project must have an Android package set in **app.json**
See <https://docs.expo.io/distribution/building-standalone-apps/#2-configure-appjson>

Step 8

Please follow the steps mentioned in the link to update the **app.json**.

Refer to this [link](#).

Step 9

Rebuild the code once again
Expo build:ios for iOS App

```
C:\Users\Admin [REDACTED] studentAttendance>expo build:android

There is a new version of expo-cli available (3.21.13).
You are currently using expo-cli 3.21.5
Install expo-cli globally using the package manager of your choice;
for example: 'npm install -g expo-cli' to get the latest version

? Choose the build type you would like: apk
An Expo user account is required to proceed.
? How would you like to authenticate? Log in with an existing Expo account
? Username/Email Address: [REDACTED]il.com
? Password: [hidden]

Success. You are now logged in as [REDACTED]
```

Step 10

Generate the
apk or ipa.

Note: You can publish this app from your own account. You will need to create a Google Developer account (for publishing apps on Play Store) or an Apple Developer Account (for publishing apps on App Store). Google Developer Account costs a one time \$25 fee. Apple Developer Accounts have annual charges of \$99.

If you want to publish your app for free from Whitehatjr's account, upload your apk to a drive and submit the link.

Submitting the Project:

1. Upload your **apk** or **iOS** to a drive.
2. Copy the link and submit it in the Student Dashboard Projects panel against the correct class number.

Hints:

1. To check expo installed in system:
 - a. On the Node.js command prompt or terminal run the following instruction:
expo --version
 - b. It will show the expo version, for example:

```
C:\Users\Admin>expo --version
3.21.5

C:\Users\Admin>
```

- c. If expo is not installed on your system, follow the instructions here to install expo:
<https://docs.expo.io/versions/latest/get-started/installation/>

2. To create android apk or iOS ipa files, run the following commands:

For building apk: **sudo expo build:android**

For building ipa: **sudo expo build:ios**

(For iOS build, you will need an Apple id and password for your paid developer account. It will authenticate the developer account. You will have to create a paid developer account for this purpose.)

3. The build command takes a while. You can visit the build link given in the terminal to see the progress. Once the build is finished, you can download the apk directly from there. After some time, you can see the link to the apk file. You can click on it to download and install it.

```
C:\Users\Admin> .\studentAttendance>expo build:android
There is a new version of expo-cli available (3.21.13).
You are currently using expo-cli 3.21.5
Install expo-cli globally using the package manager of your choice;
for example: 'npm install -g expo-cli' to get the latest version

? Choose the build type you would like: apk
An Expo user account is required to proceed.
? How would you like to authenticate? Log in with an existing Expo account
? Username/Email Address: [REDACTED]il.com
? Password: [hidden]

Success. You are now logged in as [REDACTED]
```

4. Use the command '**npm install**' to install the packages. (It will work on most of the packages to be installed).

PROFESSIONAL

APP PUBLISHING AND LOCAL ENVIRONMENT SETUP



REMEMBER... Try your best, that's more important than being correct.

After submitting your project your teacher will send you feedback on your work.

_____ **xxx** _____ **xxx** _____ **xxx** _____ **xxx** _____ **xxx** _____