

Topic	CAPSTONE CLASS: PUBLISHING THE A (Self-Designed App)	<b>ΛPP</b>
Class Description	Students complete coding for all the app functionality. Students learn how to publish their app so that anyone can test them using the expo client app. Students also generate the apk for their app and learn how to publish it on playstore. Students complete the self-designed app and generate an APK	
	file to make it publishable on Playstore.	
Class	C96	92
Class time	45 mins	
Goal	<ul> <li>Complete coding for all the functionalities of the</li> <li>Use expo publish to publish the app link</li> <li>Generate app apk and learn to publish it on pla</li> </ul>	
Resources Required	<ul> <li>Teacher Resources         <ul> <li>Laptop with internet connectivity</li> <li>Earphones with mic</li> <li>Notebook and pen</li> <li>Android/iOS Smartphone with Expo App installed</li> </ul> </li> <li>Student Resources         <ul> <li>Laptop with internet connectivity</li> <li>Earphones with mic</li> <li>Notebook and pen</li> <li>Android/iOS Smartphone with Expo App installed</li> </ul> </li> </ul>	
Class structure	Warm Up Teacher-led Activity Student-led Activity Wrap up	5 mins 15 mins 15 mins 05 mins
WARM-UP SESSION - 05 mins		



### **CONTEXT**

• Complete walk through of the app developed so far.



## **Teacher starts slideshow**

from slides 1 to 7

Refer to speaker notes and follow the instructions on each slide.

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Activity details	Solution/Guidelines	
Hey <student's name="">. How are you? It's great to see you! Are you excited to learn something new today?</student's>	<b>ESR</b> : Hi, thanks, Yes I am excited about it!	
Run the presentation from slide 1 to slide 4	Click on the slide show tab and present the slides	
<ul> <li>Following are the WARM-UP session deliverables:</li> <li>Greet the student.</li> <li>Revision of previous class activities.</li> <li>Quizzes</li> </ul>	ding	
Display the WARM-UP Quiz session		
Act <mark>ivit</mark> y details	Solution/Guidelines	
Run the presentation from slide 5 to slide 7 to set the problem statement.	Narrate the story by using hand gestures and voice	

**Teacher ends slideshow** 



modulation methods to bring

in more interest in students.

## **TEACHER-LED ACTIVITY - 15 mins**

### **Teacher Initiates Screen Share**

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Following are the WARM-UP session deliverables:

Appreciate the student.Discuss publishing app.



CHALLENGE  Complete the remaining functionalities of the app.		
Step 2: Teacher-led Activity (15 min)	Guide the student to code for the remaining app functionality.	Teacher and the student work together to code for the remaining app functionalities.
	Teacher Stops Screen Share	
	Now it's your turn. Please share your screen with me.	<b>*</b> 3.85
	STUDENT-LED ACTIVITY - 20 mir	is
<ul> <li>Ask Student to press ESC key to come back to panel</li> <li>Guide Student to start Screen Share</li> <li>Teacher gets into Fullscreen</li> </ul>		
ACTIVITY     Use expo publish to publish the app URL which can be opened from expoclient     Learn to generate the app apk		
Teacher starts slideshow from slides 8 to 10 Refer to speaker notes and follow the instructions on each slide.		
Now it's your turn. Please share your screen with me.		
Teacher ends slideshow =		



Step 3: Student-Led Activity (15 min)	We have been scanning the code on our browser and opening it using the expo client on your phone.  What was the limitation of that?	ESR: Our phone and machine which runs the project should be on the same network.
	Do know you can get others to use your app on their phones without having to install your app!	ESR: How can we do that?
	We have a feature in expo where you can publish your app on a unique URL online. Users can use the expo app to scan the URL and open your app within Expo Client App. Also they don't have to be on the same Wifi network!  Let's see how:  1. Navigate to your expo project directory on your terminal. 2. Use "expo publish" to publish your app. It will generate a link after publishing your app. 3. Open the link on your browser. 4. Scan the QR code through the expo client app (for Android users) and using Camera (for iOS users).	The student uses expo publish to publish their app and then open it on their phone from the expo client. Student Activity 1.



You already know how to generate apk (for Android) and ipa (for iOS). Remember we did that for earlier classes?
What did we use?

Teacher can guide through the instructions on how to generate app executables.

The student goes through the documentation for building standalone apps from Student Activity 2.

### ESR:

We used expo build to publish the app.

## To Build Android App:

```
Welcome to fish, the friendly interactive shell

-> cd Documents/
-/Documents> cd book-santa-stage-13
-/D/book-santa-stage-13> expo build:android
```

## To Build IOS App:



Welcome to fish, the friendly interactive shell

-> cd Documents/
-/Documents> cd book-santa-stage-13
-/D/book-santa-stage-13> expo build:ios

## **Teacher Guides Student to Stop Screen Share**

#### **WRAP-UP SESSION - 05 Mins**

### **FEEDBACK**

Encourage the student to follow instructions to publish the app

# Teacher starts slideshow



## from slide 11 to slide 20

Activity details		Solution/Guidelines	
Run the presentation from slide 11 to slide 20  Following are the wrap-up session deliverables:  • Explain the facts and trivias  • Next class challenge  • Project for the day  • Additional Activity		Guide the student to develop the project and share with us.	
Quiz Time - Click on In-Class Quiz			
	You get a "hats off".	Make sure you have given at least 2 Hats Off during the class for:  Creatively Solved Activities  Creatively	

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		Great Question Concentration Concentration
	Congratulations! You have accomplished a new milestone!	
	In this Capstone project, you have to complete coding for all the functionalities of the app. Later, use expo to publish the app link. Lastly, you have to generate the app apk and publish it on Playstore.	ding for Kids
Project Overview	*This Project will take only 30 mins to complete. Motivate students to try and finish it after class only.*  My Independent App	
	Goal of the Project:  Congratulations on getting one step closer to the Purple Hat. In class 96, we published the app on Google Play.	
	In this project, you'll have to:	
	** This is a continuation of the project we did for Classes 91 to 95. Please	

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	complete those projects before attempting this project **  Story:  You have come a long way in developing an app for Riya. Now as the final stage, publish the app on the play store so that people can download and use it.  I am very excited to see your project solution and I know you will do really well.  Bye Bye!	* Con Lides
Teacher Clicks × End Class		
Additional Activities	Get the student to continue working on the pending app functionalities. Help them test, debug and run the app.	Student codes for the adding other functionalities in the app.  The student runs, tests and debugs the app.



Activity	Activity Name	Links
Teacher Activity 1	Publishing An App Reference	https://s3-whjr-curriculum-uploads.whjr. online/27346945-f855-42e7-a222-a25e 14c94448.pdf
Student Activity 1	Instruction on Generating App Executable	https://docs.expo.io/workflow/publishing/
Student Activity 2	Building Standalone Apps Reference	https://docs.expo.io/distribution/building-standalone-apps/
Student Activity 3	Publishing An App Reference	https://s3-whjr-curriculum-uploads.whjr. online/a1e38256-42a9-4c4a-b334-3fd0 7dabe92b.pdf
Project Solution	My Independent App	As it is an open-ended project, there is no specific solution.
Teacher Ref. Visual Aid Link	Visual Aid link	https://curriculum.whitehatjr.com/Visual +Project+Asset/PRO_VD/PRO_C96_w ithcues.html
Teacher Ref. In-Class Quiz	In-Class Quiz	https://s3-whjr-curriculum-uploads.whjr. online/bf99381a-ceff-48dc-8516-b03c7 3d8ae48.pdf