









Topic	CODING FUNCTIONALITY STAGE 1 (Self-Designed App)	
Class Description	Students list down all the user actions and app behavior they expect for each user action. Students write code to add these app functionalities in their app.	
Class	C94	
Class time	45 mins	
Goal	<ul style="list-style-type: none"> <li>List down all the user actions and app behavior for each screen</li> <li>Write code to add these behaviors in the app functionality</li> </ul>	
Resources Required	<ul style="list-style-type: none"> <li>Teacher Resources               <ul style="list-style-type: none"> <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 style="list-style-type: none"> <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	<b>Warm Up</b> <b>Teacher-led Activity</b> <b>Student-led Activity</b> <b>Wrap Up</b>	<b>5 mins</b> <b>15 mins</b> <b>15 mins</b> <b>05 mins</b>
WARM-UP SESSION - 05 mins		
<b>CONTEXT</b> <ul style="list-style-type: none"> <li>Talk about the app functionality which we are building.</li> </ul>		
Teacher starts slideshow  from slides 1 to 8		

Refer to speaker notes and follow the instructions on each slide.	
Activity details	Solution/Guidelines
<p><i>Hey &lt;student's name&gt;. How are you? It's great to see you! Are you excited to learn something new today?</i></p> <p><b>Run the presentation from slide 1 to slide 4</b></p> <p><b>Following are the WARM-UP session deliverables:</b></p> <ul style="list-style-type: none"> <li>• Greet the student.</li> <li>• Revision of previous class activities.</li> <li>• Quizzes</li> </ul>	<p><b>ESR:</b> Hi, thanks, Yes I am excited about it!</p> <p>Click on the slide show tab and present the slides</p>
<b>Display the WARM-UP Quiz session</b>	
Activity details	Solution/Guidelines
<p><b>Run the presentation from slide 5 to slide 8 to set the problem statement.</b></p> <p><b>Following are the WARM-UP session deliverables:</b></p> <ul style="list-style-type: none"> <li>• Appreciate the student.</li> <li>• Discussing app functionality.</li> </ul>	<p>Narrate the story by using hand gestures and voice modulation methods to bring in more interest in students.</p>
<p><b>Teacher ends slideshow</b> </p>	
<b>TEACHER-LED ACTIVITY - 15 mins</b>	
<b>Teacher Initiates Screen Share</b>	
<p><b><u>CHALLENGE</u></b></p> <ul style="list-style-type: none"> <li>• List down all the user actions and app behavior for each screen</li> <li>• Discuss the logic or flow of the program to achieve these user behaviors.</li> </ul>	

<b>Step 2: Teacher-led Activity (15 min)</b>	<p>For each screen in the app, we will start by listing down the user actions and the app behavior in response to those user actions.</p> <p>Let's talk about the first screen.</p>	<p><i>The student talks about the user actions and app behavior for the first screen of the app.</i></p>
	<p>Let's talk about the program flow to achieve this kind of behavior.</p> <p><i>Allow the student to express in detail on how they would achieve this functionality in their app. Probe them for more details.</i></p> <p><i>Get the student to think in terms of state of the components.</i></p>	<p><i>The student articulates the program flow and logic on how to code for the app functionality on the screen.</i></p>
	<p><i>Teacher can guide the student to talk about the app functionality for each screen.</i></p>	<p><i>The student talks about the program flow and logic for the app functionality for each screen.</i></p>
	<p>Let's get started on coding for these app functionality.</p>	
<p><b>Teacher Stops Screen Share</b></p>		
	<p>Now it's your turn. Please share your screen with me.</p>	
<p><b>STUDENT-LED ACTIVITY - 20 mins</b></p>		
<ul style="list-style-type: none"> <li>• <b>Ask Student to press ESC key to come back to panel</b></li> <li>• <b>Guide Student to start Screen Share</b></li> <li>• <b>Teacher gets into Fullscreen</b></li> </ul>		

<p align="center"><b><u>ACTIVITY</u></b></p> <ul style="list-style-type: none"> <li>• Write code to add the functionality in the app</li> <li>• Test and debug the code</li> </ul>		
<p align="center">  <b>Teacher starts slideshow from slides 9 to 10</b>  Refer to speaker notes and follow the instructions on each slide. </p>		
	Now it's your turn. Please share your screen with me.	
<p align="center">  <b>Teacher ends slideshow</b> </p>		
<b>Step 3: Student-Led Activity (15 min)</b>	<i>Teacher guides the student through coding for the app functionality for each screen in the app.</i>	<i>Student codes for each functionality for each screen on the app.</i>  <i>After coding for each functionality, the student runs the app and tests the output.</i>
	<i>The teacher can help in testing and debugging the app.</i>	<i>Student debugs the app for errors.</i>
<p align="center"><b>Teacher Guides Student to Stop Screen Share</b></p>		
<p align="center"><b>WRAP-UP SESSION - 05 Mins</b></p>		
<p align="center"><b><u>FEEDBACK</u></b></p> <ul style="list-style-type: none"> <li>• Continue adding for more app functionality</li> </ul>		

 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: <ul style="list-style-type: none"> <li>● Explain the facts and trivias</li> <li>● Next class challenge</li> <li>● Project for the day</li> <li>● Additional Activity</li> </ul>		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: <div> <div>Creatively Solved Activities  +10</div> <div>Great Question  +10</div> <div>Strong Concentration  +10</div> </div>
Project Overview	<p><b>*This Project will take only 30 mins to complete. Motivate students to try and finish it after class only.*</b></p> <p><b>Coding for the functionality-1</b></p> <p><b>Goal of the Project:</b></p> <p>Congratulations on getting one step closer to the <b>Purple Hat</b>. In class 94,</p>	

	<p>we coded to add some functionality to the app.</p> <p>In this project, you'll have to:</p> <ul style="list-style-type: none"> <li>List down all the user actions and app behavior for each screen you created in previous projects.</li> <li>Write code to add these behaviors in the app functionality.</li> </ul> <p><b>** This is a continuation of the project we did for Classes 91 to 93. Please complete those projects before attempting this project **</b></p> <p><b>Story:</b></p> <p>Riya wants to keep the app simple so that her users can use it easily. So help Riya to list down how her app will behave when a user performs a certain action.</p> <p>I am very excited to see your project solution and I know you will do really well.</p> <p>Bye Bye!</p>	
<div> <div>Teacher Clicks</div> <div>✕ End Class</div> </div>		
<p><b>Additional Activities</b></p>	<p><i>Get the student to continue working on the pending app functionalities. Help them test, debug and run the app.</i></p>	<p><i>Student codes for the adding other functionalities in the app.</i></p> <p><i>The student runs, tests and debugs the app.</i></p>

Activity	Activity Name	Links
Teacher Ref. Visual Aid Link	Visual Aid link	<a href="https://curriculum.whitehatjr.com/Visual+Project+Asset/PRO_VD/PRO_C94_withcues.html">https://curriculum.whitehatjr.com/Visual+Project+Asset/PRO_VD/PRO_C94_withcues.html</a>
Teacher Ref. In-Class Quiz	In-Class Quiz	<a href="https://s3-whjr-curriculum-uploads.whjr.online/76d8e600-a41d-4144-a92d-5a60b958c57c.pdf">https://s3-whjr-curriculum-uploads.whjr.online/76d8e600-a41d-4144-a92d-5a60b958c57c.pdf</a>