

## Instruction Sheet for the Candidate

<b>Qualification</b>	<b>Android Developer (Mobile App, Web &amp; Game Development)</b>
<b>Competency Standard</b>	Save user data/Integrate android application with database
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name_____ Registration/Roll Number_____
<b>Guidance for Candidate</b>	<p><b>To meet this standard, you are required to complete the following within 04 Hrs. time frame (for practical demonstration &amp; assessment):</b></p> <ul style="list-style-type: none"> <li>• Manipulate data e.g. using SharedPreferences</li> <li>• Manipulate data using File I/O</li> <li>• Manipulate data in SQLite</li> <li>• Manipulate storage using Room</li> <li>• Manipulate data using online databases</li> </ul>
<b>Time: 04 Hrs.</b>	During a practical assessment, under observation by an assessor, you are required to
<b>Minimum Evidence Required</b>	<p><b>Manipulate data using libraries like SharedPreferences</b></p> <ol style="list-style-type: none"> <li>1. Use Shared Preferences Library to save and retrieve user preferences.</li> <li>2. Add a settings activity to an app to save the user's preferred app settings.</li> </ol> <p><b>Manipulate data using File I/O</b></p> <ol style="list-style-type: none"> <li>1. Build activity to store data in file</li> <li>2. Add/update and delete data from file</li> </ol> <p><b>Manipulate data in SQLite</b></p> <ol style="list-style-type: none"> <li>1. Create database in SQLite database</li> <li>2. Add / update and delete data</li> </ol> <p><b>Manipulate storage using Room</b></p> <ol style="list-style-type: none"> <li>1. Use Android's Room to save and retrieve data in the database.</li> <li>2. Add / update and delete data</li> </ol> <p><b>Manipulate data using online databases</b></p> <ol style="list-style-type: none"> <li>1. Create online database (Like firebase)</li> <li>2. Import libraries to connect with database</li> <li>3. Store, update, retrieve and update data</li> </ol>

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	<b>Android Developer (Mobile App, Web &amp; Game Development)</b>
<b>Competency Standard</b>	Save user data/Integrate android application with database
<b>Purpose of Assessment</b>	Formative Assessment
<b>Assessment Task</b>	<ul style="list-style-type: none"> <li>Manipulate data using SharedPreferences</li> <li>Manipulate data using File I/O</li> <li>Manipulate data in SQLite</li> <li>Manipulate storage using Room</li> <li>Manipulate data using online databases</li> </ul>

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Use SharedPreferences like Library to save and retrieve user preferences.	<input type="checkbox"/>	<input type="checkbox"/>
2. Add a settings activity to an app to save the user's preferred app settings.	<input type="checkbox"/>	<input type="checkbox"/>
3. Build activity to store data in file	<input type="checkbox"/>	<input type="checkbox"/>
4. Add/update and delete data from file	<input type="checkbox"/>	<input type="checkbox"/>
5. Create database in SQLite database	<input type="checkbox"/>	<input type="checkbox"/>
6. Add / update and delete data	<input type="checkbox"/>	<input type="checkbox"/>
7. Use Android's Room to save and retrieve data in the database.	<input type="checkbox"/>	<input type="checkbox"/>
8. Add / update and delete data	<input type="checkbox"/>	<input type="checkbox"/>
9. Create online database (Like firebase)	<input type="checkbox"/>	<input type="checkbox"/>
10. Import libraries to connect with database	<input type="checkbox"/>	<input type="checkbox"/>
11. Store, update, retrieve and update data	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature\_\_\_\_\_ Assessor's Signature\_\_\_\_\_

Date: \_\_\_\_\_

## Assessors Judgment Guide

<b>Qualification</b>	Android Developer ( <b>Mobile App, Web &amp; Game Development</b> )
<b>Competency Standard</b>	Save user data/Integrate android application with database
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span>COMPETENT <input type="checkbox"/></span> <span>NOT YET COMPETENT <input type="checkbox"/></span> </div> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Assessment Summary (to be filled by the assessor)							
Activity	Method					Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

## Observation Checklist

<b>Assessment Task</b>	<ul style="list-style-type: none"> <li>Manipulate data using SharedPreferences</li> <li>Manipulate data using File I/O</li> <li>Manipulate data in SQLite</li> <li>Manipulate storage using Room</li> <li>Manipulate data using online databases</li> </ul>			
<b>During the practical assessment, candidate demonstrated the following:</b>		<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1.	Use SharedPreferences like Library to save and retrieve user preferences.			
2.	Add a settings activity to an app to save the user's preferred app settings.			
3.	Build activity to store data in file			
4.	Add/update and delete data from file			
5.	Create database in SQLite database			
6.	Add / update and delete data			
7.	Use Android's Room to save and retrieve data in the database.			
8.	Add / update and delete data			
9.	Create online database (Like firebase)			
10.	Import libraries to connect with database			
11.	Store, update, retrieve and update data			
<b>Competent</b> <input type="checkbox"/>		<b>Not Yet Competent</b> <input type="checkbox"/>		

## Knowledge Assessment

<b>Qualification</b>	Android Developer <b>(Mobile App, Web &amp; Game Development)</b>
<b>Competency Standard</b>	Save user dataIntegrate android application with database
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </div> Name of the Assessor: _____ Assessor's code: _____ Signature of the Assessor: _____

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application)		Satisfactory	Not Satisfactory
1.	Define Database.		
2.	Differentiate between Firebase and SQLite.		
3.	Define Room libraries.		

4.	How do we add the dependencies of Firebase?		
5.	Define the use of shared preferences.		
6.	How to receive a system broadcast?		

Feedback to the Candidate	
Candidate's Signature _____	Assessor's Signature _____