

Instruction Sheet for the Candidate

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

Self-Assessment Checklist

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

I can.....

Performance Criteria	Yes	No
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 _____

Observation Checklist

Assessment Task	<ul style="list-style-type: none"> • Manipulate data using SharedPreferences • Manipulate data using File I/O • Manipulate data in SQLite • Manipulate storage using Room • Manipulate data using online databases 			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
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			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Android Developer (Mobile App, Web & Game Development)
Competency Standard	Save user data Integrate android application with database
Purpose of Assessment	Formative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	<p>COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/></p> <p>Name of the Assessor: _____</p> <p>Assessor's code: _____</p> <p>Signature of the Assessor: _____</p>

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.		

