

Instruction Sheet for the Candidate

Qualification	Android Developer (Mobile App, Web & Game Development)
Competency Standard	<ol style="list-style-type: none"> 1. Build logic through Programming 2. Install/Configure Android Studio 3. Build Mobile Application 4. Build robust UI for greater UX (user experience) 5. Test, Debug and use support libraries 6. Program/use background applications 7. Save user data/Integrate android application with database
Purpose of Assessment	Summative Assessment
Candidate Details	Name _____ Registration/Roll Number _____
Guidance for Candidate	<p>To meet this standard, you are required to complete the following within 05 Hrs. time frame (for practical demonstration & assessment):</p> <p>Note: Any one task to be selected by Assessor</p> <p><u>Task A</u></p> <p>Build application to get all the saved SMS in android system and display using list view.</p> <p><u>Task B</u></p> <p>Build activity to store data in the local/Firebase database (to be selected by Assessor) and show the data on second activity. Table (id,name, father_name, date of birth, phone_no). Run this application on AVD or mobile.</p>
Time: 05 Hrs.	During a practical assessment, under observation by an assessor, you are required to

Minimum Evidence Required	<ol style="list-style-type: none">1. Create new project2. Choose suitable API and language3. Run application to Emulator and a device4. Write code in all lifecycle functions and observe the output5. Create new activities6. Start activities by using Intents7. Start a new activity by sending an implicit intent that looks for an activity to handle the request.8. Permissions for access SMS9. Create database in SQLite database10. Add / update and delete data11. Use Android's Room to save and retrieve data in the database.12. Add / update and delete data13. Create online database (Like Firebase)14. Import libraries to connect with database15. Store, update, retrieve and update data
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Android Developer (Mobile App, Web & Game Development)
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Purpose of Assessment	Summative Assessment
Assessment Task	<p><u>Task A</u></p> <p>Build application to get all the saved SMS in android system and display using list view.</p> <p><u>Task B</u></p> <p>Build activity to store data in the local/Firebase database* and show the data on second activity. Table (id,name, father_name, date of birth, phone_no). Run this application on AVD or mobile.</p> <p>*to be selected by Assessor</p>

I can.....

Performance Criteria	Yes	No
1. Create new project	<input type="checkbox"/>	<input type="checkbox"/>
2. Choose suitable API and language	<input type="checkbox"/>	<input type="checkbox"/>
3. Run application to Emulator and a device	<input type="checkbox"/>	<input type="checkbox"/>
4. Write code in all lifecycle functions and observe the output	<input type="checkbox"/>	<input type="checkbox"/>
5. Create new activities	<input type="checkbox"/>	<input type="checkbox"/>
6. Start activities by using Intents	<input type="checkbox"/>	<input type="checkbox"/>
7. Start a new activity by sending an implicit intent that looks for an activity to handle the request.	<input type="checkbox"/>	<input type="checkbox"/>
8. Permissions for access SMS	<input type="checkbox"/>	<input type="checkbox"/>

9. Create database in SQLite database	<input type="checkbox"/>	<input type="checkbox"/>
10. Add / update and delete data	<input type="checkbox"/>	<input type="checkbox"/>
11. Use Android's Room to save and retrieve data in the database.	<input type="checkbox"/>	<input type="checkbox"/>
12. Add / update and delete data	<input type="checkbox"/>	<input type="checkbox"/>
13. Create online database (Like Firebase)	<input type="checkbox"/>	<input type="checkbox"/>
14. Import libraries to connect with database	<input type="checkbox"/>	<input type="checkbox"/>
15. Store, update, retrieve and update data	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature _____ Assessor's Signature _____

Date: _____

Assessors Judgment Guide

Qualification	Android Developer (Mobile App, Web & Game Development)
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Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____

Assessment Outcome	COMPETENT <input type="checkbox"/>	NOT YET COMPETENT <input type="checkbox"/>
	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

Assessment Task	<p><u>Task A</u></p> <p>Build application to get all the saved SMS in android system and display using list view.</p> <p><u>Task B</u></p> <p>Build activity to store data in the local/Firebase database* and show the data on second activity. Table (id,name, father_name, date of birth, phone_no). Run this application on AVD or mobile.</p> <p>*to be selected by Assessor</p>			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Create new project			
2.	Choose suitable API and language			
3.	Run application to Emulator and a device			
4.	Write code in all lifecycle functions and observe the output			
5.	Create new activities			
6.	Start activities by using Intents			
7.	Start a new activity by sending an implicit intent that looks for an activity to handle the request.			
8.	Permissions for access SMS			
9.	Create database in SQLite database			
10.	Add / update and delete data			
11.	Use Android's Room to save and retrieve data in the database.			
12.	Add / update and delete data			
13.	Create online database (Like Firebase)			
14.	Import libraries to connect with database			

15.	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)
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Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> 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.	Differentiate between Classes and Objects.		
2.	Differentiate between AVD and SDK.		

3.	Define inheritance.		
4.	Define element in XML.		
5.	Why we use XML in Android development.		
6.	Define is AVD.		
7.	What is an attribute in XML?		

Feedback to the Candidate

Candidate's Signature _____ **Assessor's Signature** _____