

Instruction Sheet for the Candidate

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| 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 |

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| Minimum Evidence Required | <ol style="list-style-type: none"> 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 |
|----------------------------------|--|

Self-Assessment Checklist

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|------------------------------|--|
| Candidate Name | |
| Registration No. | |
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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"/> |

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|---|--------------------------|--------------------------|
| 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

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|------------------------------|--|
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| Purpose of Assessment | Summative Assessment |
| Candidate Details | Name: _____ Registration/Roll Number: _____ Signature: _____ |

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|---------------------------|---|
| 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

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| Assessment Task | <u>Task A</u> Build application to get all the saved SMS in android system and display using list view. | | | |
| | <u>Task B</u> 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. | | | |
| | *to be selected by Assessor | | | |
| | | | | |
| 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

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|------------------------------|--|
| Qualification | Android Developer (Mobile App, Web & Game Development) |
| Competency Standard | 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: _____ Candidate Signature: _____ |
| Assessment Outcome | <div style="display: flex; justify-content: space-around; align-items: center;"> COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> </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. | Differentiate between Classes and Objects. | | |
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| 2. | Differentiate between AVD and SDK. | | |
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| 3. | Define inheritance. | | |
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| 4. | Define element in XML. | | |
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| 5. | Why we use XML in Android development. | | |
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| 6. | Define is AVD. | | |
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| 7. | What is an attribute in XML? | | |
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| Feedback to the Candidate | |
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Candidate's Signature_____ **Assessor's Signature** _____