

Instruction Sheet for the Candidate

Qualification	Database Administrator (Mobile App, Web & Game Development)
Competency Standard	Implement database in Firebase
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 03 Hrs. time frame (for practical demonstration & assessment):</p> <ul style="list-style-type: none"> • Add Firebase using Firebase Console • Prepare to Launch Application • Add Firebase Services to Firebase Project • Add backend procedures • Setup Crashlytics • Test Application
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	<p>Add Firebase using Firebase Console</p> <ol style="list-style-type: none"> 1. Create a Firebase project 2. Register your app with Firebase 3. Add a Firebase configuration file 4. Add Firebase SDK to the application <p>Prepare to Launch your Application</p> <ol style="list-style-type: none"> 1. Setup budget alerts for your project 2. Monitor usage and billing dashboard in Firebase console 3. Verify the firebase launch checklist <p>Add Firebase Services to your Firebase Project</p> <ol style="list-style-type: none"> 1. Setup Google Analytics to gain user behavior insight 2. Setup a user authentication flow 3. Store data of users in Cloud Firestore or Realtime Database 4. Store files, images and videos into cloud storage <p>Add backend procedures</p> <ol style="list-style-type: none"> 1. Write backend code that runs in secure environment (using cloud functions) 2. Configure notifications (cloud messaging) <p>Setup Crashlytics</p> <ol style="list-style-type: none"> 1. Record what information can an application forward to server when it crashes 2. Configure which information will be sent to server when an application crash

	<p>Test Application</p> <ol style="list-style-type: none">1. Prepare unit tests for application2. Verify that application passes all unit tests
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Database Administrator (Mobile App, Web & Game Development)
Competency Standard	Implement database in Firebase
Purpose of Assessment	Formative Assessment
Assessment Task	<ul style="list-style-type: none"> • Add Firebase using Firebase Console • Prepare to Launch your Application • Add Firebase Services to your Firebase Project • Add backend procedures • Setup Crashlytics • Test Application

I can.....

Performance Criteria	Yes	No
1. Create a Firebase project	<input type="checkbox"/>	<input type="checkbox"/>
2. Register your app with Firebase	<input type="checkbox"/>	<input type="checkbox"/>
3. Add a Firebase configuration file	<input type="checkbox"/>	<input type="checkbox"/>
4. Add Firebase SDK to the application	<input type="checkbox"/>	<input type="checkbox"/>
5. Setup budget alerts for the project	<input type="checkbox"/>	<input type="checkbox"/>
6. Monitor usage and billing dashboard in Firebase console	<input type="checkbox"/>	<input type="checkbox"/>
7. Verify the firebase launch checklist	<input type="checkbox"/>	<input type="checkbox"/>
8. Setup Google Analytics to gain user behavior insight	<input type="checkbox"/>	<input type="checkbox"/>
9. Setup a user authentication flow	<input type="checkbox"/>	<input type="checkbox"/>
10. Store data of users in Cloud Firestore or Realtime Database	<input type="checkbox"/>	<input type="checkbox"/>
11. Store files, images and videos into cloud storage	<input type="checkbox"/>	<input type="checkbox"/>
12. Write backend code that runs in secure environment (using cloud functions)	<input type="checkbox"/>	<input type="checkbox"/>
13. Configure notifications (cloud messaging)	<input type="checkbox"/>	<input type="checkbox"/>
14. Record what information can an application forward to server when it crashes	<input type="checkbox"/>	<input type="checkbox"/>
15. Configure which information will be sent to server when an application crash	<input type="checkbox"/>	<input type="checkbox"/>
16. Prepare unit tests for application	<input type="checkbox"/>	<input type="checkbox"/>
17. Verify that application passes all unit tests	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature _____ Assessor's Signature _____

Date: _____

Observation Checklist

Assessment Task	<ul style="list-style-type: none"> Add Firebase using Firebase Console Prepare to Launch your Application Add Firebase Services to your Firebase Project Add backend procedures Setup Crashlytics Test Application 			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Create a Firebase project			
2.	Register your app with Firebase			
3.	Add a Firebase configuration file			
4.	Add Firebase SDK to the application			
5.	Setup budget alerts for the project			
6.	Monitor usage and billing dashboard in Firebase console			
7.	Verify the firebase launch checklist			
8.	Setup Google Analytics to gain user behavior insight			
9.	Setup a user authentication flow			
10.	Store data of users in Cloud Firestore or Realtime Database			
11.	Store files, images and videos into cloud storage			
12.	Write backend code that runs in secure environment (using cloud functions)			
13.	Configure notifications (cloud messaging)			
14.	Record what information can an application forward to server when it crashes			
15.	Configure which information will be sent to server when an application crash			
16.	Prepare unit tests for application			
17.	Verify that application passes all unit tests			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Database Administrator (Mobile App, Web & Game Development)
Competency Standard	Implement database in Firebase
Purpose of Assessment	Formative 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.	Which software is needed to deploy Firebase database? _____		
2.	What is SDK? _____		
3.	What is Cloud Firestore? _____		
4.	Define Android Virtual Device		

