

Instruction Sheet for the Candidate

Qualification	Full Stack Developer (Mobile App, Web and Game Development)
Competency Standard	Perform Testing of Application
Purpose of Assessment	Formative Assessment
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration & assessment): <ul style="list-style-type: none"> • Perform User Interface Testing • Perform Unit Testing • Perform integration testing • Perform Compatibility Testing • Perform Security Testing • Apply performance Testing
Time: 03 Hrs.	During a practical assessment, under observation by an assessor, you are required to
Minimum Evidence Required	Perform User Interface Testing <ol style="list-style-type: none"> 1. Check the responsiveness of application 2. Check the flow of application 3. Check non-functional requirements Perform Unit Testing <ol style="list-style-type: none"> 1. Identify test cases for unit testing 2. Write test cases for unit testing 3. Perform unit testing using testing tools Perform integration testing <ol style="list-style-type: none"> 1. Identify scenarios for integration 2. Perform integration testing Perform Compatibility Testing <ol style="list-style-type: none"> 1. Test application on different desktop browsers 2. Test application on different mobile/devices browsers 3. Check compatibility tests with different operating systems Perform Security Testing <ol style="list-style-type: none"> 1. Identify the application security needs (OS,Hardware,Frameworks

	<p>etc.)</p> <ol style="list-style-type: none"> 2. Identify all potential threats and vulnerabilities 3. Prepare the threat profile based on different vulnerabilities/risks 4. Prepare the test plan 5. Automate testing on top of the manual testing 6. Prepare the security tests case document <p>Apply performance Testing</p> <ol style="list-style-type: none"> 1. Select tool for performance testing 2. Check performance under a heavy load using selected tool 3. Perform Stress testing to determine the breaking point of the application
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Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	Full Stack Developer (Mobile App, Web and Game Development)
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Assessment Task	<ul style="list-style-type: none"> • Perform User Interface Testing • Perform Unit Testing • Perform integration testing • Perform Compatibility Testing • Perform Security Testing • Apply performance Testing

I can.....

Performance Criteria	Yes	No
1. Check non-functional requirements	<input type="checkbox"/>	<input type="checkbox"/>
2. Identify test cases for unit testing	<input type="checkbox"/>	<input type="checkbox"/>
3. Write test cases for unit testing	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform unit testing using testing tools	<input type="checkbox"/>	<input type="checkbox"/>
5. Identify scenarios for integration	<input type="checkbox"/>	<input type="checkbox"/>
6. Perform integration testing	<input type="checkbox"/>	<input type="checkbox"/>
7. Test application on different desktop browsers	<input type="checkbox"/>	<input type="checkbox"/>
8. Test application on different mobile/devices browsers	<input type="checkbox"/>	<input type="checkbox"/>
9. Check compatibility tests with different operating systems	<input type="checkbox"/>	<input type="checkbox"/>
10. Identify the application security needs (OS,Hardware,Frameworks etc.)	<input type="checkbox"/>	<input type="checkbox"/>
11. Identify all potential threats and vulnerabilities	<input type="checkbox"/>	<input type="checkbox"/>
12. Prepare the threat profile based on different vulnerabilities/risks	<input type="checkbox"/>	<input type="checkbox"/>

13. Prepare the test plan	<input type="text"/>	<input type="text"/>
14. Automate testing on top of the manual testing	<input type="text"/>	<input type="text"/>
15. Prepare the security tests case document	<input type="text"/>	<input type="text"/>
16. Select tool for performance testing	<input type="text"/>	<input type="text"/>
17. Check performance under a heavy load using selected tool	<input type="text"/>	<input type="text"/>
18. Perform Stress testing to determine the breaking point of the application	<input type="text"/>	<input type="text"/>
19. Identify scenarios for integration	<input type="text"/>	<input type="text"/>
20. Perform integration testing	<input type="text"/>	<input type="text"/>

Candidate's Signature_____ Assessor's Signature_____

Date: _____

Assessors Judgment Guide

Qualification	Full Stack Developer (Mobile App, Web and Game Development)
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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		<ul style="list-style-type: none">• Perform User Interface Testing• Perform Unit Testing• Perform integration testing• Perform Compatibility Testing• Perform Security Testing• Apply performance Testing		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Check the responsiveness of application			
2.	Check the flow of application			
3.	Check non-functional requirements			
4.	Identify test cases for unit testing			
5.	Write test cases for unit testing			
6.	Perform unit testing using testing tools			
7.	Identify scenarios for integration			
8.	Perform integration testing			
9.	Test application on different desktop browsers			
10.	Test application on different mobile/devices browsers			
11.	Check compatibility tests with different operating systems			
12.	Identify the application security needs (OS,Hardware,Frameworks etc.)			
13.	Identify all potential threats and vulnerabilities			
14.	Prepare the threat profile based on different vulnerabilities/risks			
15.	Prepare the test plan			
16.	Automate testing on top of the manual testing			
17.	Prepare the security tests case document			
18.	Select tool for performance testing			

19.	Check performance under a heavy load using selected tool			
20.	Perform Stress testing to determine the breaking point of the application			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Full Stack Developer (Mobile App, Web and Game Development)
Competency Standard	Perform Testing of Application
Purpose of Assessment	Formative 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.	Define testing.		
2.	Name any two unit-testing techniques.		
3.	What is the concept of testing automation?		

4.	Name any three testing tools.		
5.	Define compatibility testing.		

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