

Instruction Sheet for the Candidate

Qualification	Full Stack Developer (Mobile App, Web and Game Development)
Competency Standards	<ul style="list-style-type: none"> • Gather/Elicit Client Requirements • Write Program for Client Side (Using JS, jQuery, Angular/VUE) • Program a Server Side (Using PHP/ASP/Python/Node JS) • Program a Database (Using SQL, MySQL, SQLite, And PostgreSQL) • Perform Testing of Application • Manage Project
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 04 Hrs. time frame (for practical demonstration & assessment):</p> <p>Manage a small web project for stock management of a retail store. Design a database that can store stock items (id, name, description, unit-price and quantity). Develop client-side web page for entering stock into database. Develop server-side script to receive stock data and save it into the database. Develop the test cases for above project and write the management plan for it.</p>
Time: 04 Hrs.	During a practical assessment, under observation by an assessor, you are required to:
Minimum Evidence Required	<p>Manage a small web project for given scenario (Stock management, HR, Point of sale etc.) for at least one table database. Develop client-side web page for entering stock into database. Develop server-side script to receive stock data and save it into the database. Develop the test cases for above project and write the management plan for it.</p> <ol style="list-style-type: none"> 1. Write the idea for given application 2. Write project development plan 3. Create database (using DBMS) for the given application 4. Create table(s) 5. Populate table(s) with test data 6. Write HTML for client side pages 7. Write CSS files for client side pages 8. Apply CSS in HTML 9. Write JS for form validation 10. Apply JS in HTML pages. 11. Write code for database connectivity. 12. Develop server-side pages to insert data into database 13. Develop server-side pages to update/delete data into database 14. Develop server-side pages to display data from database 15. Verify application accessibility through web browser

	<p>16. Create test cases to ensure correct data entry into the page</p> <p>17. Write test cases execution report</p> <p>18. Debug application.</p>
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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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Purpose of Assessment	Summative Assessment
Assessment Task	Manage a small web project for stock management of a retail store. Design a database that can store stock items (id, name, description, unit-price and quantity). Develop client-side web page for entering stock into database. Develop server-side script to receive stock data and save it into the database. Develop the test cases for above project and write the management plan for it.

I can.....

Performance Criteria	Yes	No
1. Write the idea for given application	<input type="checkbox"/>	<input type="checkbox"/>
2. Write project development plan	<input type="checkbox"/>	<input type="checkbox"/>
3. Create database (using DBMS) for the given application	<input type="checkbox"/>	<input type="checkbox"/>
4. Create table(s)	<input type="checkbox"/>	<input type="checkbox"/>
5. Populate table(s) with test data	<input type="checkbox"/>	<input type="checkbox"/>
6. Write HTML for client side pages	<input type="checkbox"/>	<input type="checkbox"/>
7. Write CSS files for client side pages	<input type="checkbox"/>	<input type="checkbox"/>
8. Apply CSS in HTML	<input type="checkbox"/>	<input type="checkbox"/>
9. Write JS for form validation	<input type="checkbox"/>	<input type="checkbox"/>
10. Apply JS in HTML pages.	<input type="checkbox"/>	<input type="checkbox"/>
11. Write code for database connectivity.	<input type="checkbox"/>	<input type="checkbox"/>
12. Develop server-side pages to insert data into database	<input type="checkbox"/>	<input type="checkbox"/>
13. Develop server-side pages to update/delete data into database	<input type="checkbox"/>	<input type="checkbox"/>
14. Develop server-side pages to display data from database	<input type="checkbox"/>	<input type="checkbox"/>
15. Verify application accessibility through web browser	<input type="checkbox"/>	<input type="checkbox"/>
16. Create test cases to ensure correct data entry into the page	<input type="checkbox"/>	<input type="checkbox"/>

17. Write test cases execution report	<input type="text"/>	<input type="text"/>
18. Debug application.	<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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Purpose of Assessment	Summative Assessment
Candidate Details	Name: _____ Registration/Roll Number: _____ 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: _____

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	Manage a small web project for stock management of a retail store. Design a database that can store stock items (id, name, description, unit-price and quantity). Develop client-side web page for entering stock into database. Develop server-side script to receive stock data and save it into the database. Develop the test cases for above project and write the management plan for it.			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Write the idea for given application			
2.	Write project development plan			
3.	Create database (using DBMS) for the given application			
4.	Create table(s)			
5.	Populate table(s) with test data			
6.	Write HTML for client side pages			
7.	Write CSS files for client side pages			
8.	Apply CSS in HTML			
9.	Write JS for form validation			
10.	Apply JS in HTML pages.			
11.	Write code for database connectivity.			
12.	Develop server-side pages to insert data into database			
13.	Develop server-side pages to update/delete data into database			
14.	Develop server-side pages to display data from database			
15.	Verify application accessibility through web browser			
16.	Create test cases to ensure correct data entry into the page			
17.	Write test cases execution report			
18.	Debug application.			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Knowledge Assessment

Qualification	Full Stack Developer (Mobile App, Web and Game Development)
Competency Standards	<ul style="list-style-type: none"> Gather/Elicit Client Requirements Write Program for Client Side (Using JS, jQuery, Angular/VUE) Program a Server Side (Using PHP/ASP/Python/Node JS) Program a Database (Using SQL, MySQL, SQLite, And PostgreSQL) Perform Testing of Application Manage Project
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.	Name any two types of testing for web projects.		
2.	Name any two activities performed by a project manager during project management.		

3.	Differentiate between client-side and server-side programming language.		
4.	Which SQL statement is used to insert a record into a database?		
5.	What is meant by form validation in the context of a web application?		
6.	Differentiate between GET and POST method of form submission in HTML.		
7.	What is meant by an open-source programming language?		
8.	Name any two methods of requirements gathering for a web project.		

Feedback to the Candidate	

Candidate's Signature _____ Assessor's Signature _____