

## Instruction Sheet for the Candidate

<b>Qualification</b>	Full Stack Developer ( <b>Mobile App, Web and Game Development</b> )
<b>Competency Standard</b>	Program a Server Side (using PHP, Python, Node JS)
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name_____ Registration/Roll Number_____
<b>Guidance for Candidate</b>	<p><b>To meet this standard, you are required to complete the following within 03 Hrs. time frame (for practical demonstration &amp; assessment):</b></p> <ul style="list-style-type: none"> <li>• Identify the architecture of web application</li> <li>• Manage Resources</li> <li>• Develop robust application</li> <li>• Perform testing of application</li> </ul>
<b>Time: 03 Hrs.</b>	During a practical assessment, under observation by an assessor, you are required to:
<b>Minimum Evidence Required</b>	<p><b>Identify the architecture of web application</b></p> <ol style="list-style-type: none"> <li>1. Compare available development technologies</li> <li>2. Choose the suitable technology</li> <li>3. Develop high-quality software design and architecture</li> <li>4. Identify suitable tools for programming</li> <li>5. Identify the scope of project</li> <li>6. Prepare a list of tasks</li> <li>7. Prioritize the tasks</li> <li>8. Design the architecture</li> </ol> <p><b>Manage Resources</b></p> <ol style="list-style-type: none"> <li>1. Identify the computing resources requirements</li> <li>2. Make computing resource available</li> <li>3. Install best suitable technology for development</li> <li>4. Configure web development technology for development</li> </ol> <p><b>Develop robust application</b></p> <ol style="list-style-type: none"> <li>1. Develop applications by producing clean, efficient code</li> <li>2. Automate tasks through appropriate tools and scripting</li> <li>3. Prepare Development Document</li> </ol> <p><b>Perform testing of application</b></p> <ol style="list-style-type: none"> <li>1. Debug the code</li> <li>2. Perform validation and verification testing</li> <li>3. Ensure software is up-to-date with latest technologies</li> </ol>

## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Full Stack Developer <b>(Mobile App, Web and Game Development)</b>
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<b>Purpose of Assessment</b>	Formative Assessment
<b>Assessment Task</b>	<ul style="list-style-type: none"> <li>Identify the architecture of web application</li> <li>Manage Resources</li> <li>Develop robust application</li> <li>Perform testing of application</li> </ul>

I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Compare available development technologies	<input type="checkbox"/>	<input type="checkbox"/>
2. Choose the suitable technology	<input type="checkbox"/>	<input type="checkbox"/>
3. Develop high-quality software design and architecture	<input type="checkbox"/>	<input type="checkbox"/>
4. Identify suitable tools for programming	<input type="checkbox"/>	<input type="checkbox"/>
5. Identify the scope of project	<input type="checkbox"/>	<input type="checkbox"/>
6. Prepare a list of tasks	<input type="checkbox"/>	<input type="checkbox"/>
7. Prioritize the tasks	<input type="checkbox"/>	<input type="checkbox"/>
8. Design the architecture	<input type="checkbox"/>	<input type="checkbox"/>
9. Identify the computing resources requirements	<input type="checkbox"/>	<input type="checkbox"/>
10. Make computing resource available	<input type="checkbox"/>	<input type="checkbox"/>
11. Install best suitable technology for development	<input type="checkbox"/>	<input type="checkbox"/>
12. Configure web development technology for development	<input type="checkbox"/>	<input type="checkbox"/>
13. Develop applications by producing clean, efficient code	<input type="checkbox"/>	<input type="checkbox"/>
14. Automate tasks through appropriate tools and scripting	<input type="checkbox"/>	<input type="checkbox"/>
15. Prepare Development Document	<input type="checkbox"/>	<input type="checkbox"/>
16. Debug the code	<input type="checkbox"/>	<input type="checkbox"/>
17. Perform validation and verification testing	<input type="checkbox"/>	<input type="checkbox"/>
18. Ensure software is up-to-date with latest technologies	<input type="checkbox"/>	<input type="checkbox"/>

Candidate's Signature\_\_\_\_\_ Assessor's Signature\_\_\_\_\_

Date: \_\_\_\_\_

## Assessors Judgment Guide

<b>Qualification</b>	<b>Full Stack Developer (Mobile App, Web and Game Development)</b>
<b>Competency Standard</b>	Program a Server Side (using PHP, Python, Node JS)
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-between;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </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		<ul style="list-style-type: none"> <li>Identify the architecture of web application</li> <li>Manage Resources</li> <li>Develop robust application</li> <li>Perform testing of application</li> </ul>		
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Compare available development technologies			
2.	Choose the suitable technology			
3.	Develop high-quality software design and architecture			
4.	Identify suitable tools for programming			
5.	Identify the scope of project			
6.	Prepare a list of tasks			
7.	Prioritize the tasks			
8.	Design the architecture			
9.	Identify the computing resources requirements			
10.	Make computing resource available			
11.	Install best suitable technology for development			
12.	Configure web development technology for development			
13.	Develop applications by producing clean, efficient code			
14.	Automate tasks through appropriate tools and scripting			
15.	Prepare Development Document			
16.	Debug the code			
17.	Perform validation and verification testing			
18.	Ensure software is up-to-date with latest technologies			

**Competent**

☐

**Not Yet Competent**

☐

## Knowledge Assessment

<b>Qualification</b>	Full Stack Developer ( <b>Mobile App, Web and Game Development</b> )
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<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div style="display: flex; justify-content: space-around; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </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 programming languages used to develop server side for a web application.		
2.	What is meant by the scope of a project?		
3.	What is meant by a resource hungry application?		

<b>Feedback to the Candidate</b>
<b>Candidate's Signature</b> _____ <b>Assessor's Signature</b> _____