

## Questionnaire for evaluating ReqCity

(with answers highlighted)

#	Category	Excel+Graph	ReqCity
1	Simple	<p>Are there requirements that <b>fail</b> (score of 0) the <b>Complete (C4)</b> characteristic?</p> <ul style="list-style-type: none"> <li>a. Yes</li> <li>b. No</li> </ul>	<p>Are there requirements that have a score of 1 for <b>Complete (C4)</b> characteristic?</p> <p>Hint: C4 is mapped to color of the requirement building block</p> <ul style="list-style-type: none"> <li>a. No</li> <li>b. Yes</li> </ul>
2	Simple	<p>How many well-formed requirements are there in the NYC-CVPD SyRS document?</p> <p>Hint: Well-formed if score is 1 for all characteristics. In ReqCity, this is denoted by floating diamond on the requirement building block.</p> <ul style="list-style-type: none"> <li>a. 395</li> <li>b. 0</li> <li>c. 35</li> <li>d. 7</li> </ul>	<p>How many well-formed requirements are there in the NYC-CVPD SyRS document?</p> <p>Hint: Well-formed if score is 1 for all characteristics. In ReqCity, this is denoted by floating diamond on the requirement building block.</p> <ul style="list-style-type: none"> <li>a. 395</li> <li>b. 35</li> <li>c. 0</li> <li>d. 7</li> </ul>
3	Complex	<p>Requirement <b>0.3.8.2.5.1</b> is at Level 4. Please state what section it belongs to? Also, state the parent section at <b>Level 2</b> for this requirement.</p> <p><b>Level 4: 0.3.8.2.5 - Intersection Movement Assist;</b>  <b>Level 2:0.3.8 - Application Requirements</b></p>	<p>Requirement 0.3.8.4.1.31 is at Level 4. Please state what section does it belong to? Also, state the parent section at Level 2 for this requirement.</p> <p><b>Level 4: 0.3.8.4.1 - Mobile Accessible Pedestrian Signal System;</b>  <b>Level 2:0.3.8 - Application Requirement</b></p>
4	Complex	<p>Which requirement in section <b>0.3.8.3.4 - Red Light Violation Warning</b> has the highest number of characteristics with a <b>score below 0.67</b>?</p> <ul style="list-style-type: none"> <li>a. 0.3.8.3.4.3</li> <li>b. 0.3.8.3.4.5</li> <li>c. 0.3.8.3.4.11</li> <li>d. 0.3.8.3.4.8</li> </ul>	<p>Which requirement in section <b>0.3.2.1 - Vehicle Performance Monitoring</b> has the highest number of characteristics with a <b>score above 0.67</b>?</p> <ul style="list-style-type: none"> <li>a. 0.3.2.1.10</li> <li>b. 0.3.2.1.7</li> <li>c. 0.3.2.1.1</li> <li>d. 0.3.2.1.3</li> </ul>

5	Complex	<p>Compare two sections (A) 0.3.2.4 - Event Data Collection and (B) 0.3.8.3.4 - Red Light Violation Warning for the characteristics Feasible (C6) and Consistent (C11)</p> <ul style="list-style-type: none"> <li>a. (A) performs better for both C6 and C11</li> <li>b. (B) performs better for both C6 and C11</li> <li>c. (A) performs better for C6, while (B) performs better for C11</li> <li>d. (B) performs better for C6, while (A) performs better for C11</li> </ul>	<p>Compare two sections (A) 0.3.2.1 - Vehicle Performance Monitoring and (B) 0.4.10- Vehicle Data Bus for the characteristics Feasible (C6) and Consistent (C11)</p> <ul style="list-style-type: none"> <li>a. (B) performs better for C6, while (A) performs better for C11</li> <li>b. (B) performs better for both C6 and C11</li> <li>c. (A) performs better for C6, while (B) performs better for C11</li> <li>d. (A) performs better for both C6 and C11</li> </ul>
6	Simple	<p>For Requirement 0.3.5.2.16, state which characteristics are not satisfied (score &lt; 1) and which rules are causing this failure.</p> <p>Unambiguous(C3), Complete(C4), Verifiable(C7); R07 (Vague terms), R25 (Headings)</p>	<p>For Requirement 0.3.8.1.37, state which characteristics are not satisfied (score &lt; 1) and which rules are causing this failure.</p> <p>Unambiguous (C3), Complete (C4), Verifiable (C7), Feasible_S (C12); R07 (Vague terms), R25 (Headings), R34 (Measurable Performance)</p>
7	Complex	<p>For Requirement 0.3.2.1.7, state which characteristics are satisfied (score = 1) and how many rules does this requirement pass.</p> <p>Appropriate(C2), Complete Set (C10); 20 Rules</p>	<p>For Requirement 0.3.2.4.8, state which characteristics are satisfied (score = 1) and how many rules does this requirement pass</p> <p>Complete Set (C10); 20 Rules</p>
8	Complex	<p>Evaluate section 0.4.4 for set-level characteristics (C10-C15). List the characteristics for which Section 0.4.4 performs the best and the worst? Looking at all set-level characteristics of this section, suggest a requirement that adversely impacts performance of the section overall. (Response Format: Best - C12, Worst - C10, 0.4.4.1)</p> <p>Best – Complete Set (C10), C2 Worst - Feasible Set (C12)</p>	<p>Evaluate section 0.3.2.1 for set-level characteristics (C10-C14). List the characteristics for which Section 0.3.2.1 performs the best and the worst? Looking at all set-level characteristics of this section, suggest a requirement that adversely impacts performance of the section overall.</p> <p>Best – Complete Set (C10), C2 Worst – Feasible Set (C12) , Worst: 0.3.2.1.7</p>

		<b>Worst: 0.4.4.4</b>	
9	Simple	<p>How many requirements are derived from Need 505?</p> <p>a. 10  <b>b. 8</b>  c. 6  d. 5</p>	<p>How many requirements are derived from Need 101.2?</p> <p>a. 8  <b>b. 5</b>  c. 10  d. 6</p>
10	Complex	<p>Find the requirements derived from the need with NeedID 402.</p> <p>Based on characteristic scores for C11 do you think the Need could be met? (all requirements score &gt;0.67). If No, mention the requirement IDs of requirements that lead to it.</p> <p>(Response Format: No, Req IDs:)</p> <p><b>YES</b></p>	<p>Find the requirements derived from the need with NeedID 103.</p> <p>Based on characteristic scores for C11 do you think the Need could be met? (all requirements score &gt;0.67). If No, mention the requirement IDs of requirements that lead to it.</p> <p><b>Yes</b></p>