Component Decomposition and Type of Testing required

Table 1: Component Decomposition and Identification of Tests required

S.No	List of Various Components (modules) that require testing	Type of Testing Required*	Technique for writing test cases**
1	*xyz*		
2			

***Type of Testing required**

1. **Requirement**
2. **Unit**
3. **Integration**
4. **System**
5. **Performance**
6. **Stress, Volume, Load**
7. **etc.. etc..**

**** Technique to write test cases**

1. **Black Box – equivalence classes, boundary value, cause effect, robustness etc..**
2. **White box – statement testing, decision testing, branch testing or path testing. Also provide number of independent paths by calculating Cyclomatic complexity and DD graph while doing path testing.**
3. **any other testing technique using tools etc..**

Table 2: Test cases for component *xyz (S.No1 of Table 1)*

1. **Write test cases for individual components listed in Table 1**
2. **First provide a list of equivalence classes or boundary value classes etc. for every component and then write the set of test cases for each**
3. **Provide a unique test case id to each test case for all components under test**

Test Case id	Input	Expected Output	Status
			Pass/Fail

Note:

1. **Write test cases for each component using black box**
2. **Also perform white box testing**
3. **If you are using some tools provide relevant results of same.**
4. **If performing GUI or web testing**

a. **Clearly mention which modules are to be tested in three layers (presentation, business and logical layer)**
b. **Which testing technique (refer to tables above) will be applicable for each highlighted module and then write test cases for same using black box or white box testing techniques.**