**FUNCTION GENERATION TOOL GUIDELINE**

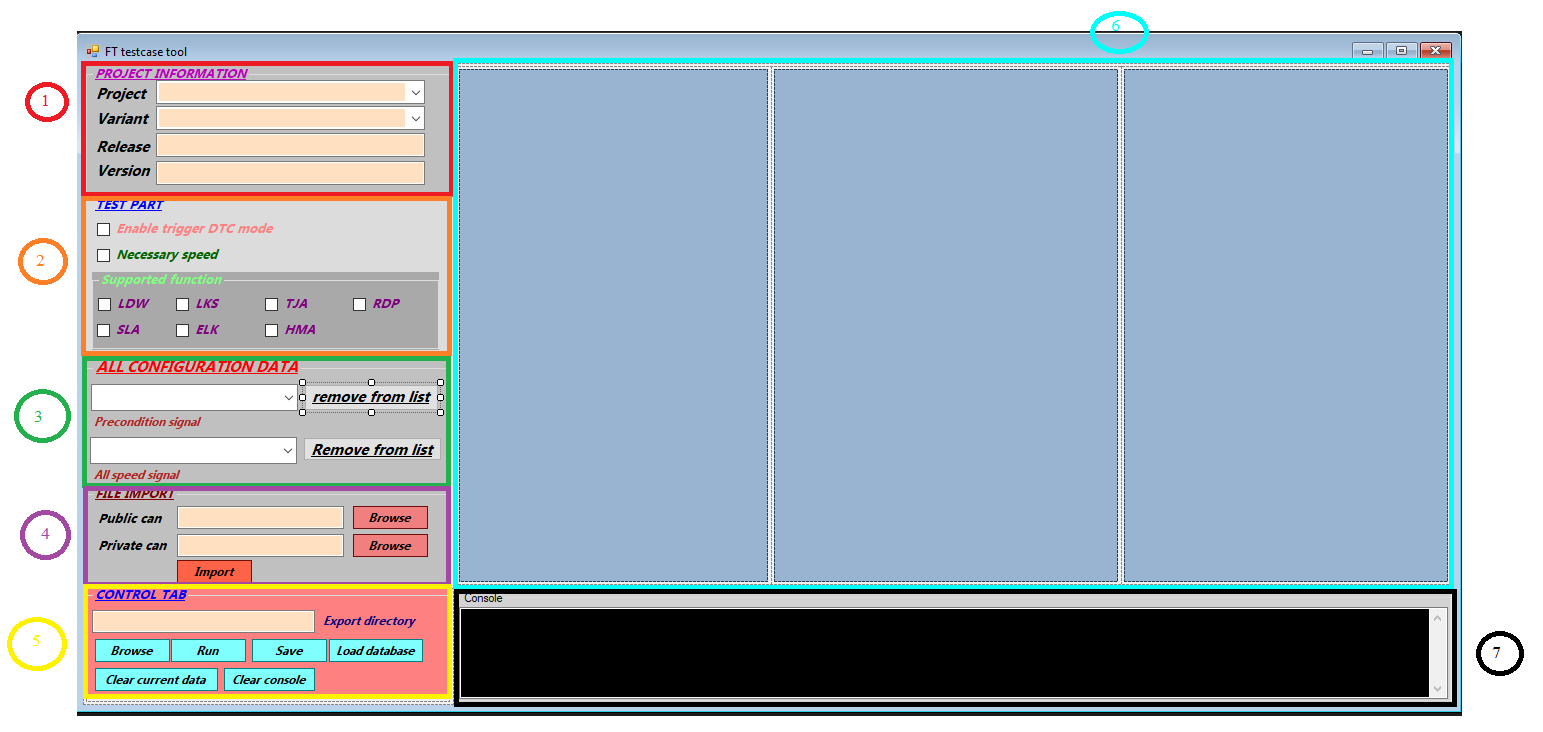
**Author: Ha Tien Tai – EDA23**

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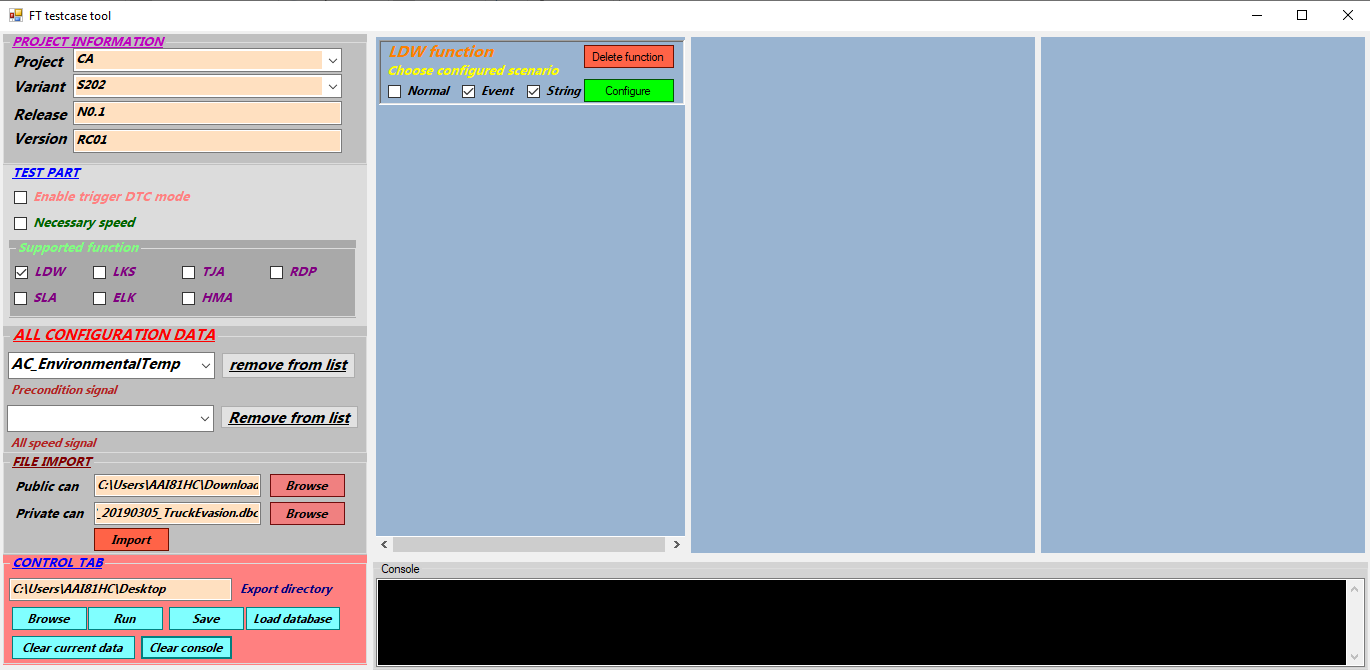
1. **Overall view**



* **(1) Project Information: Provide all textbox to input the mandatory information about the project**
* **(2) Test Part: Include all the relevant checkbox when performing function test, content for each checkbox will pop up a small window in section 6 when they are ticked**
* **(3) All Configuration Data: These scroll down lists include all pre-condition signals and speed signals. About function data, they will be display when the relevant pop up window show up**
* **(4) File Import: The location to input the directory of public-can and private-can dbc file**
* **(5) Control tab:**
* **Export directory: the output directory of your xml file, the name of the xml will have the format project\_variant\_release\_version\_labT.xml**
* **Run button will execute the procedure outputting the xml file with all the current configured data**
* **Save button will save all current data to the csv file, the file structure for this tool operation will be mentioned in the part II**
* **Load Database button will load all the data in csv file that relevant to the current project and variant**
* **Clear current data button: this one is too obvious ☺**
* **Clear console: so is this one**
* **(6) Content window: This window contents all the pop up window when you tick a checkbox in Test Part section**
* **Column 1: Content the function scenario as show below**

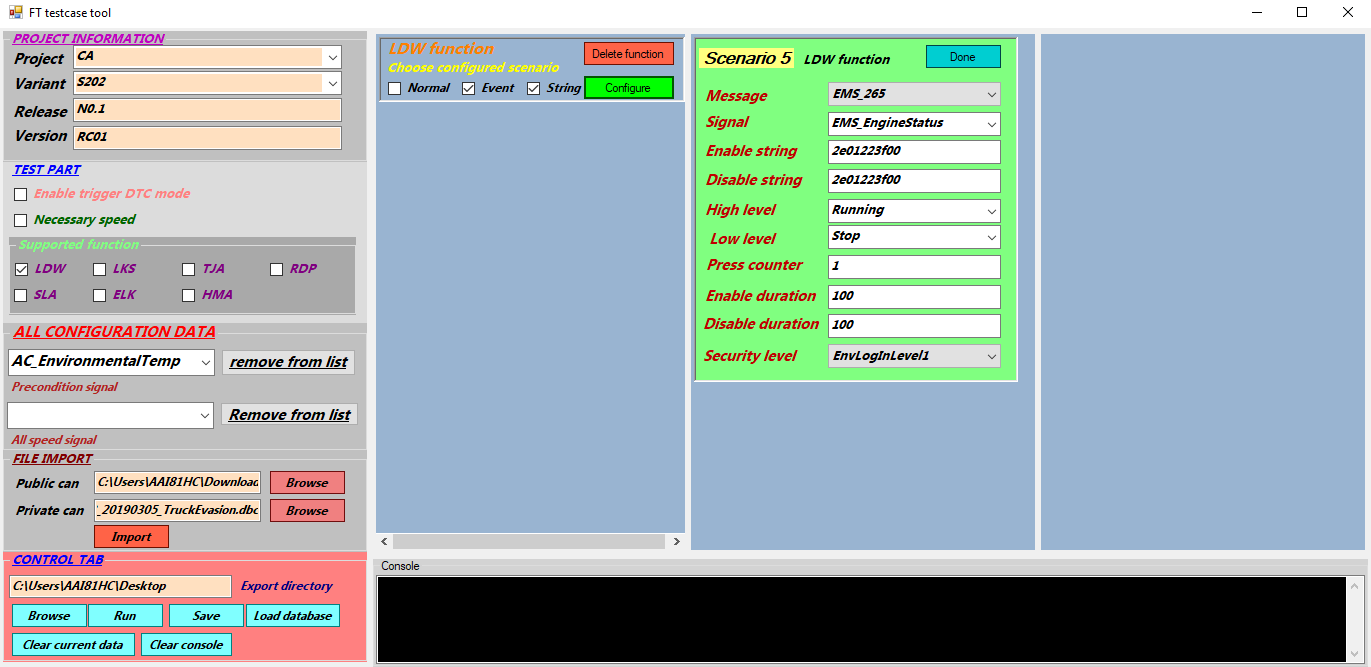
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* **If there’s any pre-configured scenario for that function, the relevant checkbox will be ticked**

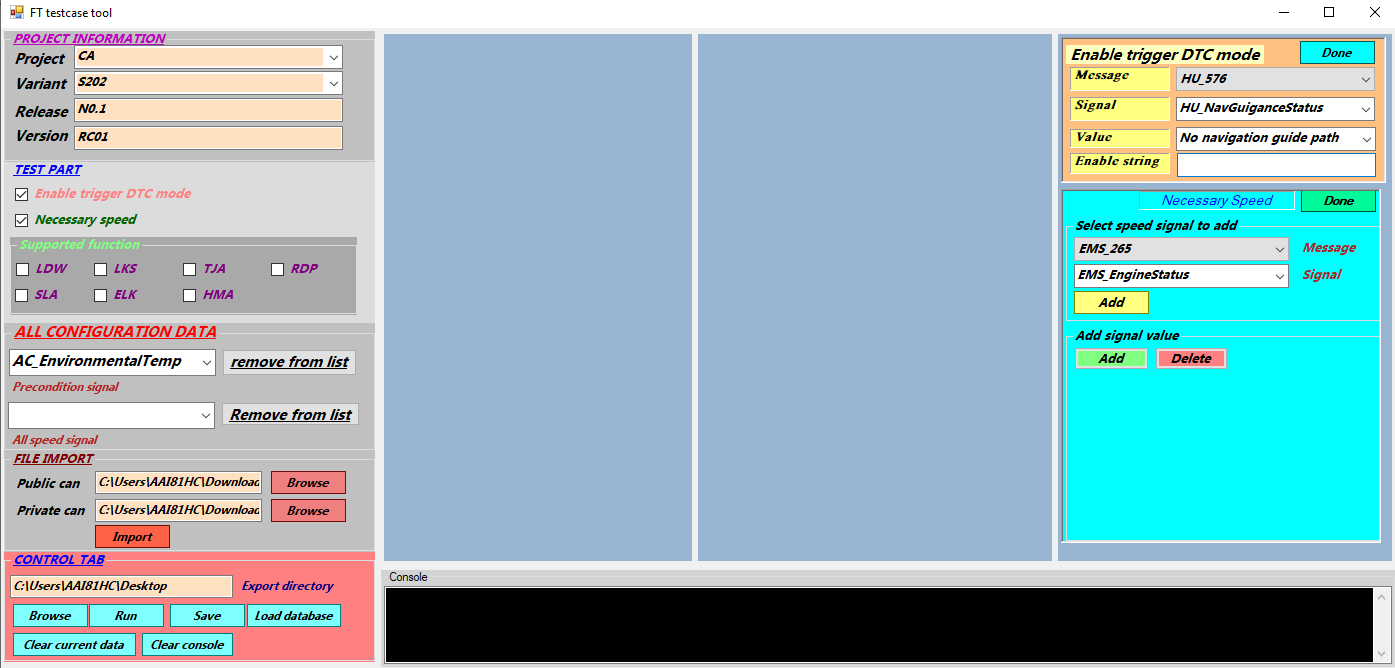
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**Example for LDW function with scenario 5 (event and string)**

* **Column 2: Content the configuration window relevant to that scenario when you press Configure**

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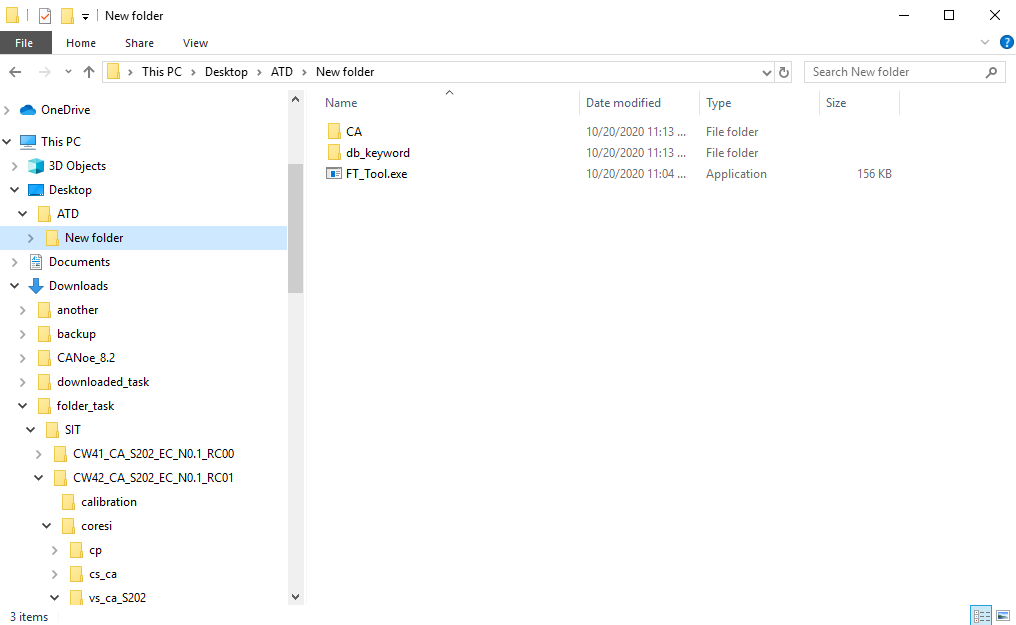
* **Column 3: Content the configuration window for trigger dtc mode and necessary speed**

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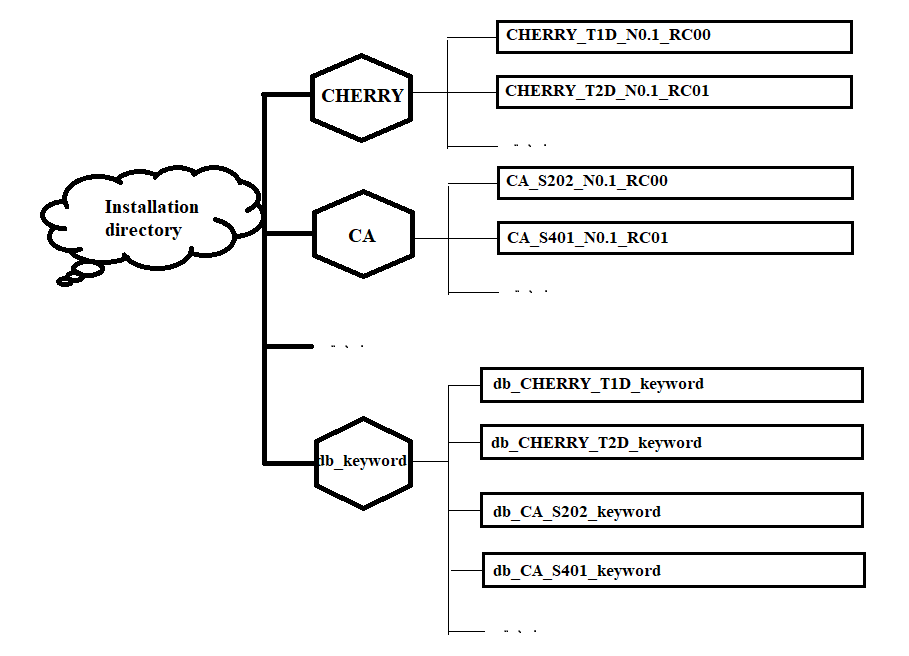
* **(7) Console window: print out all error and configuration status throughout setting procedure**

1. **FILE STRUCTURE**

* **For each particular project and variant, this tool will generate two csv file. One is for all the setting data, the second is for the necessary keyword when importing dbc file**
* **All the file is available in the same directory with exe file**

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* **The example file structure can be summarized in the below picture**

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1. **EXAMPLE SETTING**

* **In this part we will perform the example setting to get the general idea of this tool**
* **We use project CA\_S202\_N0.1\_RC01 for example**