Testing

- 1.1 Testenvironment: tbd
- 1.2 Start the application: tbd
- 1.3 The following requirements have to be tested:
 - 1) Upon starting the application, the only items visible shall be:
 - three buttons labeled "Read CPU Info", "-" and "+"
 - the "statusInfo" text field displaying: "no file read yet. Click button!"
 - the "displayCurrentCPU" text field displaying: "no CPUs loaded"
 - the empty list
 - 2) When clicking the button "Read CPU info", the "statusInfo" text field shall display: "CPU Information read successfully: N CPUs were found!"

 N is the number of CPUs in /proc/cpuinfo
 - 3) When clicking the buttons "+" or "-" before "Read CPU Info" is clicked, nothing shall happen
 - 4) When clicking the buttons "+" or "-" for the first time after "Read CPU Info" is clicked, the list shall display the information of the first CPU described in /proc/cpuinfo
 - 5) once any of the two buttons has been clicked, the list shall display the information for the next CPU when "+" button is pressed
 - 6) once any of the two buttons has been clicked, the list shall display the information for the previous CPU when "-" button is pressed
 - 7) once any of the two buttons has been clicked, the text field displayCurrentCPU" shall display the current CPU number.
 - 8) If the CPU with the highest number is displayed, clicking the "+" Button shall have not effect
 - 9) If the CPU with the lowest number is displayed, clicking the "-" Button shall have not effect.
 - 10) Strings that do not fit in the List Element shall be replaced by the string "..." (e.g. the line "Features : fp asimd evtstrm aes pmull sha1 sha2 crc32" in /demo/cpuinfo3.txt)
 - 12) Clicking on a item shall expand it
 - 13) After clicking on the "closeButton" of an expanded item, the regular list view shall be displayed
 - 14) When expanded, long strings shall not be replaced by "..."
- 1.4 Testing of the QML-Layout: tbd
- 1.5 Files defined for development purposes:

- /demo/cpuinfo.txt: manually created file to demonstrate the early concept: the file is read by a C++ class and displayed in a simple QML-layout
- /demo/cpuinfo2.txt: manually created file to demonstrate reading and displaying information multiple CPUs. The separation between CPUs is indicated by "Break here"
- /demo/cpuinfo3.txt: real file from a linux system. The line break chars were manually changed for using the file in a windows environment. The reported errors (see "ProjectStructure.pdf") occur while using this file.

1.6 Files defined for development purposes.

- **Test01 empty file:** Expected Result: Text file with "id: statusInfo" shall display "No valid CPU information found in file. No data shall be displayed.
- **Test02 additional separator.txt:** the third element of the list shall display "invalid" (both label and content). The rest of the information shall be regularly displayed in the list.
- **Test03 changed separator char.txt**: The number of CPUs and properties shall match the content of the file (6 processors with 8 properties each), but all values shall be displayed as "invalid"
- Test04 header.txt: the application shall ignore the header: the user shall experience no difference when compared to using the file /demo/cpuinfo3.txt

1.7 Test Result

Testcase	Result
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	Expanded view closes, but regular entry is not displayed correctly
14	
/demo/cpuinfo3.txt	
Test01 - empty file	CPU # -1 is displayed when Button "+" is clicked
Test02 - additional separator.txt:	
Test03 - changed separator char.txt	Displays only one CPU
Test04 – header.txt:	