Testspecification

1.1 Testenvironment: tbd

1.2 Start the application: tbd

1.3 The following requirements have to be tested:

- 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

- 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

- When clicking the buttons "+" or "-" before "Read CPU Info" is clicked, nothing shall happen

- 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

- once any of the two buttons has been clicked, the list shall display the information for the next CPU when "+" button is pressed

- once any of the two buttons has been clicked, the list shall display the information for the previous CPU when "-" button is pressed

- once any of the two buttons has been clicked, the text field displayCurrentCPU" shall display the current CPU number.

- If the CPU with the highest number is displayed, clicking the "+" Button shall have not effect
- If the CPU with the lowest number is displayed, clicking the "-" Button shall have not effect.

- 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**)

- Clicking on a item shall expand it

- After clicking on the "closeButton" of an expanded item, the regular list view shall be displayed

- 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.
- **Demo/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"
- **demo/Test04 – header.txt:** the application shall ignore the header: the user shall experience no difference when compared to using the file **/demo/cpuinfo3.txt**