Project Structure:

- Project Files
 - o at uebung.pro: Qt-project file
- C++-Files
 - cpuinforeader.h: contains the definition of the class "CPUinfoReader" and all functions necessary to process the file "/proc/info" and to supply the gathered information to QML
 - **main.cpp:** the main file instantiates the application and the CPUinfoReader and connects both objects. Runs the application.
- QML-Files
 - main.qml: defines the layout of the application. Contains the path to /proc/cpuinfo as a property. As data is gathered by calling the "Q_INVOKABLE" functions from cpuinforeader.h
 - ColorBox.qml: a styled box containing text, the main element of the layout
 - StyledButton.qml: the definition of the buttons used in the project. Uses ColorBox.qml
 - StatusTextq.qml: a text field for displaying information
 - **ListEntryBox.qml:** a preliminary version of the list elements used for displaying the information read from /proc/cpuinfo. Uses ColorBox.qml
 - ExpandableEntry.qml: A list element with two different states: The default state is identical to ListEntryBox.aml. By clicking on the element, a "expanded" state is triggered and more information is displayed. Necessary to display information that does not fit into the regular ListEntryBox.qml-layout. Uses ColorBox.qml

Functions of cpuinforeader.h:

In the following, "property" refers to the individual items of information given in /proc/cpuinfo (e.g. "processor", "bogomips", etc.).

"Label" and "Content" refer to the left and the right side of a individul line in /proc/cpuinfo. I.e. For the line "BogoMIPS": 62.50", "BogoMIPS" is the label and "62.50" the content.

- Q_INVOKABLE int getNumberOfEntries (int CPUnumber)
 Returns the number of properties given for the CPU with the number "CPUnumber"
 Currently not working, always returns 10. This may be caused by an QML-error, since the argument CPUnumber is always send as 0.
- Q_INVOKABLE int getNumberOfCPUs()
 Returns the number of CPUs described in /proc/cpuinfo
- Q_INVOKABLE QString getLabelText(int propertyNumber, int processorNumber)
 Returns the label of the Xth property of the Yth CPU, with X propertyNumber, Y –
 processorNumber

Currently not working: crashes when label is returned

Q_INVOKABLE QString getContentText(int propertyNumber, int processorNumber)

Returns the content of the Xth property of the Yth CPU, with X – propertyNumber, Y – processorNumber

Currently not working: crashes when content is returned

• Q_INVOKABLE QString readCPUinfoFile(QString Filename) reads and preprocesses the file /proc/cpuinfo