**Task definition**

Create a local multiplayer chess game using QT framework.

You may use the template provided with this coding tasks and simply extend it with requested functionality.

**Detailed explanation:**

There should be 3 screens.

Once the application starts the screen\_1 appears. There should be at least the following elements on the screen:

* Start button – starts a new game. Leads to the screen\_2
* Load button – allows user to load saved game. Leads to the screen\_3
* Empty chess board

Screen\_2:

* Chess pieces are on the board (in initial position). User should be able to move the pieces with a mouse according to the standard chess rules. Turn by turn rule must be followed as well (white turn-black turn- white-…). It’s not mandatory to implement the following features: castling, check, checkmate. The following buttons should be accessible:
  + Stop – application stops the game and leads to the screen\_1
  + Save – saves the game history to a file

Screen\_3:

* Loads a game history and allows to play it step by step using two buttons: “prev” and “next”. The following items are available on the screen:
  + Start button – starts a new game. Leads to the screen\_2
  + Load button – allows user to load saved game. Leads to the screen\_3
  + Buttons “prev” and “next”
  + chess board with pieces

**Evaluation criteria**: We do not care on graphics quality and comments in the code. But it is important that your application is stable, contains no crashes and memory leaks. Also we will evaluate application architecture, classes hierarchy, exceptions handling and coding practices

**Build system**: qmake

**Technologies**: QT+QML and C++11 are mandatory

**Platform**: Windows or Linux

**How to build and use the template**

* + - Install QT 5.6
      * go to QT official site : <https://info.qt.io/download-qt-for-application-development>
      * press "[Get your open source package](https://cta-service-cms2.hubspot.com/ctas/v2/public/cs/c/?cta_guid=d62710cd-e1db-46aa-8d4d-2f1c1ffdacea&placement_guid=f977210e-de67-475f-a32b-65cec207fd03&portal_id=149513&redirect_url=APefjpF01KaxJ82ETJ1PDpKhPDWmPtA0CxnjIob09BB0iSC-VDojGeFuZzhdlE5rmb1s57oei3iAHp0fmrVj69ajGwJSjgLvORJBSOHymdmxJhSG16neEzbDYjivdY6yoABz1HGr89JZU1I96PC0luEOmBZ8YJPO9T92nSgLRqKo9xR5wVI4U9wUyCNwqAAqcuoAhdH1HdkDeWfrsJVUzfBCJxIDcqfFQJ8326Tz1NzXYbiNe23Q3X48__coHxvhUfKzaG5_Y4O-KUh8Y13XQPjLZ8WT6EkCMA&hsutk=33d9810c01923c218f0cf310c012f4c3&canon=https%3A%2F%2Finfo.qt.io%2Fdownload-qt-for-application-development&click=46e1370c-c92d-4dbb-aacd-2e3ff8d57038&pageId=4588874906&__hstc=152220518.33d9810c01923c218f0cf310c012f4c3.1499156994548.1499186006783.1500037050867.4&__hssc=152220518.6.1500037050867&__hsfp=3930525583)" button
      * On the opened page, press "Download Now" button. (it will download qt online installer. Don't forget to choose QT.5.6 when the installer asks which QT version should be installed).
    - Run Qt creator
    - open Chess.pro file (which is part of our template)
    - build and run the project