Documentation of Project 3

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First thing the program does is to get file path from "MYCRYPTOCONVERT" environment variable with getenv function. If it doesn't exist program doesn't give an error, it just shows an empty table. Then the file is opened with QFile object of QT. File's lines are stored in a QStringList. Program expects crypto currency ID's in the file. After all ID's are added to the list, QApplication and NetworkHelper instances are created. NetworkHelper is a custom class which extends QObject. Then PopulateTable function is called in NetworkHelper and QApplication:exec is returned.

NetworkHelper consists of 2 functions and a constructor. Constructor takes two arguments which are QApplication app and a QStringList that contains crypto currencies ID's. "PopulateTable" function crates the URL and makes a GET request for price information. When reply is finished "replyFinished" function is called. This function creates the table and fills it with price info. First response is turned into QJsonDocument from QByteArray, then it is converted into a QJsonObject. Finally list that was taken from contructor is traversed for taking prices from JSON to the table. A QTableWidgetItem is created for every table cell and put into the table. After currencies are set to be headers of the table, "show" function of the table is called and table is shown in the window.