# Cryptocurrency

Github link: https://github.com/Yarrcad/CPSC-254-Final-Project

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## Problems Overcome:

* PHP and C++ Integration.
* Functioning blockchain of transactions.
* Wrote code to post to all other node but did not implement because we had no other nodes.
* Implemented client-node interface.
* Implemented the ability for nodes to mine transactions using SHA256 as a proof of work.

## Open Sources Used:

* SHA-2 256 (https://gist.github.com/hak8or/8794351)
* cURL (https://github.com/curl/curl/)
* Qt (https://www.qt.io/)
* PHP (http://php.net/)
* Apache (https://httpd.apache.org/)

## Case Tools:

* GitHub (https://github.com/)
* Notepad++ (https://notepad-plus-plus.org/)
* VisualStudio (https://www.visualstudio.com/)
* Qt (https://www.qt.io/)
* Sublime Text (<http://www.sublimetext.com/>)
* Discord (https://discordapp.com/)

## New Code:

Everything was new except sha256.h and Post.cpp

Here is a list of what we did:

* chain.cpp (Jonathan, Rayce)
* coin.html (Rayce, Grae)
* node.cpp (Rayce)
* trans.php (Jonathan, Grae)
* transaction.cpp (Grae, Jonathan)