Filename: jsonparser.cpp

Header:

#include <vector>

#include <iostream>

#include <errno.h>

#include <string.h>

#include "structures.h"

Class name: JsonParser

Description: JsonParser is an abstract class that parses a formatted json file into some other structures.

Constructor:

**JsonParser**():

Parameters: None.

Return: None.

Task: Constructs a JsonParser object.

Class name: MinerJsonParser

Inherits: JsonParser

Description: MinerJsonParser is an abstract class that parses a formatted json file containing mining information into some other structures.

Constructor:

**MinerJsonParser**():

Parameters: None.

Return: None.

Task: Constructs a MinerJsonParser object.

Public Methods:

virtual MiningInfo ***ParseJsonForMining***(std::string json) = 0:

Parameters: A string of json format data.

Return: Information about mining.

Task: Parse a string of json format data about mining into a MiningInfo structure.

Class name: NBMinerJsonParser

Inherits: MinerJsonParser

Description: NBMinerJsonParser is the implementation of MinerJsonParser that parses a formatted json file containing mining information from API of NBMiner into some other structures.

Constructor:

**NBMinerJsonParser**():

Parameters: None.

Return: None.

Task: Constructs a NBMinerJsonParser object.

Public Methods:

MiningInfo ***ParseJsonForMining***(std::string json) override:

Parameters: A string of json format data.

Return: Information about mining.

Task: Parse a string of json format data about mining from API of NBMiner into a MiningInfo structure.

Class name: PoolJsonParser

Inherits: JsonParser

Description: PoolJsonParser is an implementation of JsonParser that parses a formatted json file containing mining pool information into some other structures.

Constructor:

**PoolJsonParser**():

Parameters: None.

Return: None.

Task: Constructs a PoolJsonParser object.

Public Methods:

QList<PoolInfo> **ParseJsonForPool**(std::string json):

Parameters: A string of json format data.

Return: A list of information about mining pool.

Task: Parse a string of json format data about pool into a list of PoolInfo structure.