

Upload: fsm.cpp

Type: application/octet-stream

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Below is the content of your submission

===== START OF FILE =====

```
/*
 * CSc103 Project 5: Syntax highlighting, part one.
 * See readme.html for details.
 * Please list all references you made use of in order to complete the
 * assignment: your classmates, websites, etc. Aside from the lecture notes
 * and the book, please list everything. And remember- citing a source does
 * NOT mean it is okay to COPY THAT SOURCE. What you submit here **MUST BE
 * YOUR OWN WORK**.
 * References:
 * Yassine Wardei - SEEK PAL Center
 *
 * Finally, please indicate approximately how many hours you spent on this:
 * #hours: ~9-10 Hrs.
 */
```

```
#include "fsm.h"
using namespace cppfsm;
#include <vector>
using std::vector;
#include <iostream>
using std::cin;
using std::cout;
using std::endl;

// make sure this function returns the old state. See the header
// file for details.
int cppfsm::updateState(int& state, char c) {
    int old_state = state; // save the old state in a new variable
    switch (state){
        case start:
            if (INSET (c, ident_st)){
                state = scanid;
            }
            else if (INSET (c, num)){
                state = scannum;
            }
            else if (INSET (c, iddelim)){
                state = start;
            }
            else if (c == '/'){
                state = readfs;
            }
            else if (c == '"'){
                state = strlit;
            }
            break;
```

```

case scanid:
if (INSET (c, ident)){
    state = scanid;
}
else if (INSET (c, iddelim)){
    state = start;
}
else if (c == '/'){
    state = readfs;
}
else if (c == '"'){
    state = strlit;
}
break;

case comment:
state = comment;
break;

case strlit:
if (c == '"'){
    state = start;
}
else if (c == '\\'){
    state = readesc;
}
else{
    state = strlit;
}
break;

case readfs:
if (INSET (c, ident_st)){
    state = scanid;
}
else if (INSET (c, num)){
    state = scannum;
}
else if (c == '"'){
    state = strlit;
}
else if (c == '/'){
    state = comment;
}
break;

case readesc:
if (INSET (c, escseq)){
    state = strlit;
}
else{
    state = error;
}
break;

case scannum:
if (INSET (c, iddelim)){
    state = start;
}
else if (INSET (c, num)){
    state = scannum;
}

```

```
    }
    else if (c == '/') {
        state = readfs;
    }
    else {
        state = error;
    }
    break;
}
return old_state;
}
```

===== END OF FILE =====