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1      #include <iostream>
2      #include <windows.h>
3      #include <mysql.h>
4      #include <string>
5      #include <ctime>
6      #include<sstream>
7
8      using namespace std;
9
10     bool insert_status;
11     MYSQL* conn;
12     MYSQL_ROW row;
13     MYSQL_RES *res;
14     int qstate;
15
16
17     MYSQL* my()
18     {
19         conn = mysql_init(0);
20         //connect to a database pharaccutical_industry
21         conn = mysql_real_connect(conn,"localhost","root","",
"pharaccutical_industry",0,NULL,0);
22         return conn;
23     }
24
25     bool var(string nu,string drugname,string manufacturer,string
date_of_stock,string expiry_date,string detail){
26         //add item to the database
27         string query="INSERT INTO
drugs(id,drugname,manufacturer,date_of_stock,expiry_date,detail) VALUES
('"+nu+"','"+drugname+"','"+manufacturer+"','"+date_of_stock+"','"+
expiry_date+"','"+detail+"')";
28         const char* q = query.c_str();
29         qstate=mysql_query(my(),q);
30         if(!qstate){
31             insert_status=true;
32         }else{
33             insert_status=false;
34         }
35         return insert_status;
36     }
37
38     int main()
39     {
40         //call the above method
41         //i.e call the database function
42         MYSQL* conn=my();
43         if(conn)
44         {
45             int n;
46             //create table drugs in the database for storing of register
drugs
47             string query=" CREATE TABLE IF NOT EXISTS drugs(id INT UNSIGNED
,drugname VARCHAR(40) NOT NULL,manufacturer VARCHAR(40) NOT
NULL,date_of_stock VARCHAR(40) NOT NULL,expiry_date VARCHAR(40) NOT
NULL,detail VARCHAR(40) NOT NULL) ";
48             const char* q = query.c_str();
49             mysql_query(conn, q);
50
51
52             cout<<mysql_error(conn);
53             cout<<"1) Press 1 to insert data to the database\n";
54             cout<<"2) Press 2 to display drugname registered on the
database\n";
55             //cout<<"3) Press 1 to update data in the database\n\n";
56             do{

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57     cout<<"\nEnter choice\n";
58     cin>>n;
59
60     if((n==1)){
61         string drug_name;
62
63         cout<<"Enter the drug name you want to add to database:\n";
64         getline(cin, drug_name);
65         //getline(cin, drug_name);
66         //select all drugs from database
67         string que="SELECT *FROM drugs WHERE drugname ='"+drug_name+"'";
68
69         const char* qu = que.c_str();
70
71         qstate=mysql_query(conn, qu);
72         res = mysql_store_result(conn);
73         //fetch rows of the database to get each of the element
74         row=mysql_fetch_row(res);
75         if(row==0){
76             time_t now = time(0);
77             tm *ltm = localtime(&now);
78
79             //register the drug manufacturer into the database
80             string manufacturer;
81             cout<<"Enter the manufacturer of the drug:\n";
82             //getline is used to obtain data from input
83             getline(cin, manufacturer);
84
85             int x=ltm->tm_mday;
86             int y=ltm->tm_mon+1;
87             int z=ltm->tm_year+1900;
88             stringstream ss;
89             ss<<x;
90             string s;
91             ss>>s;
92             string x1=s;
93
94             stringstream sos;
95
96             sos<<y;
97             sos>>s;
98             string y1=s;
99             stringstream soso;
100
101             soso<<z;
102             soso>>s;
103
104
105             string z1=s;
106             //the stock date is the default date of the system;
107             string date_of_stock=x1+"/"+y1+"/"+z1;
108             string expiry_date;
109             //enter the expire date of the drug
110             cout<<"Enter the expiring date of the drug:\n";
111             getline(cin, expiry_date);
112             //description of the drug on hat kind of work its doing
113             string detail;
114             cout<<"Enter the details of the drug:\n";
115             getline(cin, detail);
116             string nu="6";
117
118             bool u=var(NULL, drug_name, manufacturer, date_of_stock, expiry_date,
119 detail);
119             if(u){
120                 cout<<"\n " <<drug_name<<" is registered successfully";
121             }else{

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122         cout<<"\n unable to register"<<drug_name<<"\n";
123     }
124
125     //row=mysql_fetch_row(res);
126
127
128     } else{
129         cout<<"\n"<<drug_name<<" Already exist\n";
130
131
132
133
134     }}else if(n==2){
135     //select from database drug
136
137     string que="SELECT *FROM drugs ";
138     const char* qu = que.c_str();
139
140     qstate=mysql_query(conn, qu);
141     res = mysql_store_result(conn);
142     cout<<"Drugname "<<" \t Manufacturer"<<" \t Date of stock "<<"\t
143     Expiry date "<<"\t Detail \n";
144     while(row=mysql_fetch_row(res)){
145         cout<<row[1]<<"\t " <<row[2]<<" \t"<<row[3]<<" \t "
146         <<row[4]<<" \t " <<row[5]<<"\n";
147     };
148
149     }
150     }while(n!=0);
151     } else
152         cout<<"connection problem: " <<mysql_error(conn)<<endl;
153
154     // cout << "Hello world!" << endl;
155     return 0;
156 }

```