Computer Programming Lab



Term Project

Semester and Section: BS (IT)-1B

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BUBBLE SHOOTER

MENU:

Menus are selection screens that are usually used to help in project progress. They give the viewer the choice to choose what to do, such as choosing whether to log in, register, or exit a game, or whether to enable or disable particular options or manage particular tools. There are various menu kinds, with the main menu serving as the player's official introduction at the start of the game being the most frequent. Since most programmes and games created outside of Scratch have menus, adding them might give a project a more polished appearance we add filling and structures in a menu.

contents:

- 1. Login
- 2. Register
- 3. Forgot password or username
- 4. Generate enemy
- 5. Draw enemy
- 6. Generate bullet
- 7. Move bullet
- 8. Draw bullet
- 9. Draw shooter
- 10. Collision

<u>login:</u>

In order to login press 1.

In order for the programme to recognise whose user is making the request and respond appropriately, logging in is fundamentally necessary. Enter your username and password to access the game if you have already logged in.

```
struct player(int, int) //structures
     int id;
     int password
pvoid login()
     int count;
     string user, pass, u, p;
system("cls");
     cout << "please enter the following details" << endl;
cout << "PASSWORD :";</pre>
     cin >> player.id >> player.password; //structures
     ifstream input("database.txt"); //filling (read input from the file)
     while (input >> u >> p)
         if (u == user && p == pass)
              count = 1;
              system("cls");
     input.close(); //filling
     if (count == 1)
         cout << "\nHello" << user << "\nLOGIN SUCESS\nWe're glad that you're here.\nThanks for logging in\n";
         cin.get();
```

Register:

In order to register press 2.

You must first register and establish an account in order to play the games after selecting the one that best meets your needs. The process is quite straightforward, and it might only take one minute. It costs nothing to create an account.

```
input.close(); //filling
if (count == 1)
          cout << "\nHello" << user << "\nLOGIN SUCESS\nWe're glad that you're here.\nThanks for logging in\n";</pre>
          cin.get();
          cin.get();
          main();
          cout << "\nLOGIN ERROR\nPlease check your username and password\n";</pre>
Estruct player(string, int) //structure of player
     string name;
     int pass;
pvoid registr()
     string reguser, regpass, ru, rp;
     system("cls");
cout << "Enter the username :";</pre>
     cout << "\nEnter th password :";</pre>
     cin >> player.name >> player.pass; // structure
     ofstream reg("database.txt", ios::app); //read and write filling
     reg << reguser << ' ' << regpass << endl;
     system("cls");
cout << "\nRegistration Sucessful\n";</pre>
      main();
         ⊗ 29 ∧ 0
```

Forgot password or username:

if you forgotten your password or username press 3.

What is the purpose of the forgot password feature? Almost all services do not recover or display the previously used password when a user clicks the "forgot password" button. Instead, you are either instructed to enter a new password or given a fresh temporary one. You now have a new password to access the account in both situations.

```
| istruct player(string, pass)
110
              string name;
111
              int id;
112
113
114
       pvoid forgot()
115
116
117
              int ch;
              system("cls");
118
              cout << "Forgotten ? We're here for help\n";</pre>
119
              cout << "1.Search your id by username" << endl;
cout << "2.Search your id by password" << endl;
cout << "3.Main menu" << endl;</pre>
              cout << "Enter your choice :";</pre>
123
              cin >> ch;
124
              switch (ch)
125
126
              case 1:
                    int count = 0;
                   string searchuser, su, sp;
cout << "\nEnter your remembered username :";</pre>
130
131
132
                   cin >> searchuser;
                    ifstream searchu("database.txt"); //filling
                   while (searchu >> su >> sp)
                         if (su == searchuser)
                              count = 1;
```

```
cout << "\n\nHurray, account found\n";
cout << "\nYour password is " << sp;</pre>
          cin.get();
          cin.get();
          system("cls");
          main();
     else
          cout << "\nSorry, Your userID is not found in our database\n";
cout << "\nPlease kindly contact your system administrator for more details \n";</pre>
          cin.get();
          cin.get();
main();
     break;
case 2:
     int count = 0;
     string searchpass, su2, sp2;
cout << "\nEnter the remembered password :";</pre>
     cin >> searchpass;
     ifstream searchp("database.txt"); //filling
     while (searchp >> su2 >> sp2)
          if (sp2 == searchpass)
                count = 1;
     searchp.close(); //filling
     if (count == 1)
```

```
void forgot()
{
      int ch;
system("cls");
cout << "Forgotten ? We're here for help\n";
cout << "1.Search your id by username" << endl;
cout << "2.Search your id by password" << endl;
cout << "3.Main menu" << endl;
cout << "Enter your choice :";</pre>
      cin >> ch;
smitch (ch)
       case 1:
             int count = 0;
string searchuser, su, sp;
cout << "\nEnter your remembered username :";
cin >> searchuser;
              ifstream searchu("database.txt");
              while (searchu >> su >> sp)
                      if (su = searchuser)
                             count = 1;
              searchu close();
if (count == 1)
                     cout << " account found\n";
cout << "\nYour password is " << sp;</pre>
                     cin.get();
                     cin.get();
system("cls");
main();
              else
                     cout << "\nSorry, Your userID is not found in our database\n";
cout << "\nPlease kindly contact your system administrator for more details \n";</pre>
                     cin.get();
cin.get();
                      main();
      ⊗ 61 ∧ 0
                                                       \uparrow \downarrow
```

```
cin.get();
           cin.get();
           system("cls");
           main();
          cout << "\nSorry, Your userID is not found in our database\n";
cout << "\nPlease kindly contact your system administrator for more details \n";</pre>
           cin.get();
           main();
     break:
case 2:
     int count = 0;
     string searchpass, su2, sp2;
cout << "\nEnter the remembered password :";
     cin >> searchpass;
     ifstream searchp("database.txt");
     while (searchp >> su2 >> sp2)
           if (sp2 == searchpass)
                 count = 1;
     searchp.close();
           cout << "\nYour password is found in the database \n";
cout << "\nYour Id is : " << su2;</pre>
           cin.get();
           cin.get();
           system("cls");
           main();
     )
else
          cout << "Sorry, We cannot found your password in our database \n";
cout << "\nkindly contact your administrator for more information\n";</pre>
          cin.get();
cin.get();
main();
     break;
case 3:
     cin.get();
```

Exit:

To exit a game press 4.

This exit feature allows user to exit the game.

Functions and structures for the player for the player:

Another important function that we add is for the players. They can enter their names and start shooting

Generate enemy:

```
}
void genEnemy(int i)
{
   enemyX[i] = 3 + rand() % (70 - 10);
}
```

Draw enemy:

```
void drawEnemy(int ind)
{
    if (enemyflag[ind] = true)
    {
        gotoxy(enemyX[ind], enemyY[ind]);
        cout << " ** ";
        gotoxy(enemyX[ind], enemyY[ind] + 1);
        cout << " ** ";
        gotoxy(enemyX[ind], enemyY[ind] + 2);
        cout << " ** ";
        gotoxy(enemyX[ind], enemyY[ind] + 3);
        cout << " ** ";
        gotoxy(enemyX[ind], enemyY[ind] + 3);
        cout << " ** ";
    }
}</pre>
```

Generate bullet:

```
void genbullet()
{
    bullets[ind][0] = 22;
    bullets[ind][1] = shooterposition;
    bullets[ind][2] = 22;
    bullets[ind][3] = shooterposition + 4;
    ind++;
    if (ind == 0)
        ind = 0;
}
```

Move bullet:

```
void movebullet()
{
    for (int i = 0; i < 20; i++)
    {
        if
             (bullets[i][0] > 2)
             bullets[i][0]--;
        else
             bullets[i][0] = 0;
        if (bullets[i][2] > 2)
             bullets[i][2]--;
        else
             bullets[i][2] = 0;
}
```

Draw bullet:

Draw shooter:

collision:

```
int collision()
{
   if (enemyY[0] + 4 >= 23)
   {
      if (enemyX[0] + 4 - shooterposition >= 0 && enemyX[0] + 4 - shooterposition < 8)
      {
        return 1;
      }
      cout << collision();
   }
   return 0;
}</pre>
```







