

Commit No - 97

Commit Message =>

1. Added the Encryption of Password to the Register User Function.
2. Added the Decryption to the Verify Function of the Login Class
3. Added the GetUser Function which returns a User object when the Correct User is found.

```
User getUser(const vector<User> &users , string name)
{
    for(const auto &x: users){
        if (x.getName() == name){
            return x;
        }
    }

    // Handle case when user is not found
    throw runtime_error("User not found");
}
```

```
password = encryptPassword(password);
ofstream filewrite(filename, ios::out | ios::app);
if (!filewrite) {
    qInfo() << "Error: Unable to open file for writing!";
    return false;
}
filewrite << name << "," << password << "\n";
filewrite.flush();
filewrite.close();
qInfo() << "User '" << name << "' registered successfully!\n";
return true;
```

```
if (file.is_open()) {
    while (getline(file, line)) {
        stringstream ss(line);
        getline(ss, uname, ',');
        getline(ss, pass, ',');

        if (uname == name && decryptPassword(pass) == password) {
            file.close();
            return true;
        }
    }
    file.close();
} else {
    qInfo() << "Error: Unable to open file for reading!\n";
}
return false;
```