UserData.java

```
1
 2import java.io.*;
 5public class UserData
      private ArrayList<User> users = new ArrayList<User>();
 7
      private User currentUser;
      private File file = new File("data.save");
 8
 9
      private boolean isLogin = false;
10
      public UserData(
11
12
          InputStreamReader read;
13
14
              read = new InputStreamReader(new
  FileInputStream(file)
              BufferedReader bufferedReader = new
15
  BufferedReader(read)
              String lineT = null;
16
              while ((lineT = bufferedReader.readLine()) != null)
17
                  String[] str = lineT.split(" ");
18
                  User userReg = new User(str[0], str[1]);
19
20
                  userReg.setScore(Integer.parseInt(str[2]));
21
                  users.add(userReg);
22
23
          reatch (FileNotFoundException e) {
              e.printStackTrace(
24
25
          catch (NumberFormatException e) {
26
              e printStackTrace();
          catch (IOException e) {
27
              e printStackTrace();
28
29
30
31
32
      public void saveScore(int score) {
33
          try
34
              FileWriter fileWriter = new FileWriter(file);
35
              BufferedWriter bufferWriter = new
  BufferedWriter(fileWriter);
36
              for (User user: users) {
37
                  if (user.getUserName() ==
  currentUser.getUserName())
38
                      if (user.getScore() < score)</pre>
```

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```
39
                           user.setScore(score);
40
                   bufferWriter.write(user.getUserName() + " " +
41
  user.getPassword() + " " + user.getScore() + "\n");
42
              bufferWriter.close();
43
              fileWriter close();
44
          catch (IOException e) {
45
46
              e printStackTrace();
47
48
49
50
      public String getName(int index) {
51
          return users get(index) getUserName();
52
53
      public User[] getList() {
54
          ArrayList<User> usersTemp = users;
55
          for (int i = 0; i < usersTemp.size() - 1; ++i) {</pre>
56
               for (int j = i; j < usersTemp.size() - 1 - i; ++j) {</pre>
57
                   if (usersTemp.get(j).getScore() <</pre>
58
  usersTemp.get(j + 1).getScore()) {
59
                       User temp = usersTemp.get(j);
                       usersTemp.set(j, usersTemp.get(j + 1));
60
61
                       usersTemp.set(j + 1, temp);
62
63
64
65
          int rankSize = usersTemp.size() <= 10 ? usersTemp.size()</pre>
    10;
          User[] userList = new User[rankSize];
66
          for (int i = 0; i < rankSize; i++)</pre>
67
68
              userList[i] = usersTemp.get(i);
69
          return userList:
70
71
72
      public boolean register(User user) {
73
          for (User u : users)
74
               if (u.getUserName().equals(user.getUserName())) {
75
                   return false:
76
77
          try
```

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```
78
               users add (user);
               FileWriter fileWriter = new FileWriter(file, true);
 79
               BufferedWriter bufferWriter = new
 80
   BufferedWriter(fileWriter):
               bufferWriter.write(user.getUserName() + " " +
 81
   user.getPassword() + " " + user.getScore() + "\n");
               bufferWriter.close();
 82
               fileWriter.close();
 83
           catch (IOException e) {
 84
               e printStackTrace();
 85
 86
 87
           return true:
 88
 89
       public boolean login(String userName, String password) {
 90
           boolean flag = false;
 91
           for (User user : users) {
 92
               if (userName.equals(user.getUserName()) &&
 93
   password.equals(user.getPassword())) {
                   flag = true;
 94
 95
                   currentUser = user;
 96
                   isLogin = true;
 97
                   break:
 98
99
100
           return flag;
101
102
103
       public boolean isLogin() {
           return isLogin;
104
105
106
107
```