

@startuml classes

hide circle

hide empty members

```

class Interface {
    +showResult()
}
  
```

```

class Login {
    -username: String
  
```

```
-password: String  
+validateCredentials()  
+searchClientData()  
}
```

```
class Database
```

```
class Calendar {  
    +showCalendar(id)  
    +saveAnnouncement(announcementId)  
    +searchAnnouncement(announcementId)  
}
```

```
class Announcement {  
    -announcementId: int  
    -event: Event  
    -date: Date  
    +getAnnouncement(announcementId, message, date)  
}
```

```
class Event {  
    -title: String  
    -date: Date  
    -description: String  
    +getDataEvent()  
    +createNewEvent()  
}
```

```
class Research {
```

```
-topic: String  
+getDataPublish()  
+createNewPublish()  
}
```

```
class Register {  
  -username: String  
  -password: String  
  +createNewUser(username, password)  
}
```

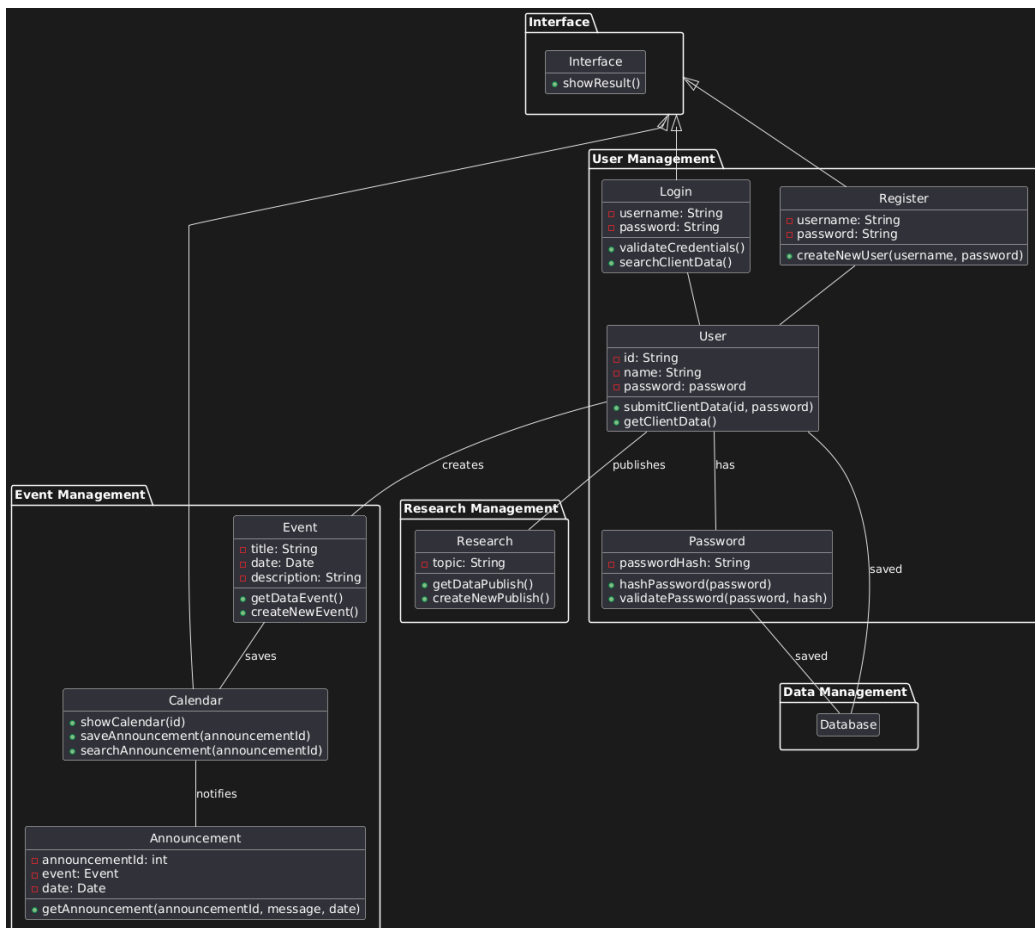
```
class User {  
  -id: String  
  -name: String  
  -password: password  
  +submitClientData(id, password)  
  +getClientData()  
}
```

```
class Password {  
  -passwordHash: String  
  +hashPassword(password)  
  +validatePassword(password, hash)  
}
```

Interface <| -d- Login

Interface <| -d- Register

Interface <|-- Calendar



@startuml paquetes

hide circle

hide empty members

```
package "User Management" {
```

```
class User {
```

```
-id: String
```

```
-name: String
```

```
-password: password
```

```
+submitClientData(id, password)
```

```
+getClientData()
```

```
}
```

```
class Register {
```

```
-username: String
```

```
-password: String
```

```
+createNewUser(username, password)
```

```
}
```

```
class Login {
```

```
-username: String
```

```
-password: String
```

```
+validateCredentials()
```

```
+searchClientData()
```

```
}
```

```
class Password {
```

```
-passwordHash: String
```

```
+hashPassword(password)
+validatePassword(password, hash)
}
}
```

```
package "Data Management" {
    class Database
}
```

```
package "Event Management" {
    class Event {
        -title: String
        -date: Date
        -description: String
        +getDataEvent()
        +createNewEvent()
    }
}
```

```
class Calendar {
    +showCalendar(id)
    +saveAnnouncement(announcementId)
    +searchAnnouncement(announcementId)
}
```

```
class Announcement {
    -announcementId: int
    -event: Event
    -date: Date
    +getAnnouncement(announcementId, message, date)
```

```
}  
}
```

```
package "Research Management" {  
  class Research {  
    -topic: String  
    +getDataPublish()  
    +createNewPublish()  
  }  
}
```

```
package "Interface" {  
  class Interface {  
    +showResult()  
  }  
}
```

```
Interface <| -d- Login  
Interface <| -d- Register  
Interface <|-- Calendar
```

```
User -u- Login  
User -u- Register  
User -- Database : "saved"  
User -- Event : "creates"
```

```
Event -- Calendar : "saves"  
Calendar -- Announcement : "notifies"
```

User -- Research : "publishes"

Password -- Database : "saved"

User -- Password : "has"

@enduml