+po +po +se +po +

## **ServerConnection**

olSize: int = 20

rtNumber: int = 16000

rverSocket: ServerSocket

ol: ExecutorService

## Clie

```
-userNotExist:
-Success: Strin
-Finish: String
-fileNotExist:
-fileExist: Str
-portNumber: in
         Strin
-address:
-client: Client
-scan: Scanner
-socket: Socket
-retrieve: Stri
+ClientConnecti
+getUserInfo():
+run(): void
+main(args:Stri
```

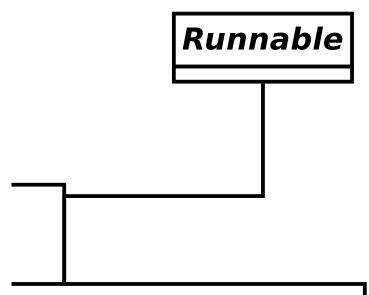
# ntConnection

Cliant

rverconnection()
n(): void
in(args:String[]): void

## Clie

-userNotExist: St
-Success: String
-Finish: String =
-fileNotExist: St
-fileExist: Strin
-socket: Socket
-server: Server
-retrieve: String
+ClientHandler(so
+run(): void



# ntHandler

```
ring = "UserNotExist"
= "Success"
: "finished"
ring = "File not exist"
g = "FileExist"
```

cket:Socket)

-userID: Stri
-password: St
-key: byte[]
-transmit: Tr
+Client(socke
+getUserID():
+setUserID(us
+getPassword(
+setPassword(
+getKey(): by
+sendKey(): \
+readFile(fna
+sendEncryptN
+readEncryptN
+generateKey()

#### CHEIR

```
ing
:ring
```

### ransmit

```
et:Socket)
  String
serID:String): void
(): String
```

(password:String): void

/te[] /oid

ame:String): void

lessage(s:String): void

lessage(): String

(): byte[]

## Tra

+out: DataOutput!
+in: DataInputSt
+encrypt: Encryp
+Transmit(socket
+setKey(b:byte[]
+sendEncryptMess:
+sendKev(b:bvte[]

```
-socket: Socket
-check: ServerCheck
-transmit: Transmit
+Server(socket:Socket)
+checkAuthenticate(userID:
+checkFile(fname:String):
+readKey(): void
+sendEncryptMessage(s:Stri
+readEncryptMessage(): Str
+sendFile(fname:String): v
```

## nsmit

Stream ream t

:Socket)

): void

age(s:String): void

1): void

+readShadowFile(u: +checkFile(filena

# Server String,password:String): boolean boolean ng): void ing oid

serID:String,password:String): boolean

me:String): boolean

**ServerCheck**