## SSLEchoServer

- -PORT\_NUM: int -fieldNames: String[]
- -AccDB: FlatDatabase
- -COST: int
- -BLK\_SIZE: int
- -PARALLELIZATION: int
- -KEY\_SIZE: int
- -IV: IvParameterSpec
- -IVAuth: byte[]
- -OKNOK: int
- -valueOfOTP: String
- -theEmail: String
- -UsernamesCreated: ArrayList<String>
- +OpenAndCreate(): void
- +Hash(thePasstoHash:String): String
- +HashAuth(thePasstoHash: String): String
- +HMACing(): String
- +recordCreator(listt: String[]): void
- -longToBytes(num: long): byte[]
- +UsernameDuplicateDetect(Username: String): boolean

## ClientInterface

- -IP: String
- -PORT\_NUM: int
- -OTP: int
- -theEmail: String
- -msg: String
- -theConnection: Boolean
- -recv: Scanner
- -send: PrintWriter
- -run: Boolean
- -sock: SSLSocket -firstConnect: int
- +getUsernamePass(): String
- +getUsernamePassOnly(): String
- +sendEmail(theOTP: String): Message
- +prepareMessage(session: Session, myEmail: String,
- recepient: String, OTP: String): Message
- +getInputConnect(theIP: String, thePort: String): void
- +ConnectToServer(): Boolean
- +Messaging(): void