Server -port : int Class Diagram: Server -serverSocket : ServerSocket +main() : void Date: October 4, 2013 +session(in socket : Socket) : void Session Friend -socket : Socket -user\_name : string +Session(in socket : Socket) -first name : string +start(): void -last\_name : string +authenticate(in user\_name : string, in password : string) : bool +Friend(in user\_name : string, in first\_name : string, in last\_name : string) +getMessages(in user\_name : string) : ArrayList < Message > +insertMessage(in message : Message) : void +getUserName(): string +getMessages(in user\_name : string) : ArrayList <Message> +sendMessages(in messages : ArrayList < Message >) : void +getFirstName() : string 1 +saveMessage(in message : Message) : void +deleteMessage(in user\_name : string, in message\_id : int) : void +getLastName(): string +deleteMessage(in user\_name : string, in message\_id : string) : void +deleteAllMessages(in user\_name : string) : void +setUserName(in user\_name : string) : void +deleteAllMessages(in user\_name : string) : void +setFirstName(in first\_name : string) : void +getFriends(in user\_name : string) : ArrayList <Friend> +setLastName(in last\_name : string) : void +sendFriends(in friends : ArrayList <Friend>) : void 1 Message -sender : string -recipient : string time : int -message : string -message\_id : int -location : GPS\_Coordinate +Message(in sender: string, in recipient: string, in time: int, in message: string, in message\_id: int, in location: GPS\_Coordinate) +getSender(): string +getRecipient() : string +getTime(): int +getTimeFormatted(): string +getMessage(): string +getMessageID(): int +getLocation() : GPS\_Coordinate +setSender(in sender : string) : void +setRecipient(in recipient : string) : void +setTime(in time : int) : void +setMessage(in message : string) : void +setMessageID(in message\_id : int) : void +setLocation(in location : GPS\_Coordinate) : void GPS\_Coordinate -latitude : float -longitude : float +GPS\_Coordinate(in latitude : float, in longitude : float)

+getLatitude() : float +getLongitude() : float

+setLongitude() : void

+setLatitude(in latitude : float, in longitude : float) : void

DB\_Operations