#### Message exchange flow Client Server Events: -SQL query for username/password || register new user -Send<REST API>: CredentialModel/ UserModel data--Login / Register If ok: -Update auth state -Update online users list (socket id:username) -Return<REST API>: Token--Return token -SQL query for all users -Return users -Send<REST API>: getAllUsers()--Route to home - We should somehow return data about unread -Update users store -Return<REST API>: userModel[] arrmessages to logged user – and include it in returned data table..(Not done yet) -User click on chat partner, -Click on users list<REST API>: getUsersMessages(id1,id2)--SQL query to messages of 2 users with -Update chat store usernames(join) order by date ·Return msg arr<REST API>: ExtendedMessage[]-(ExtendedMessages, -Return extended messages activePartner) Chat using socket io -If recipient online: -Click on msg send btn <WS>: ExtendedMessage--User send Extendedmessage \*SQL query update messages(unread = false) -Update chat store with -Return posted message<WS>: ExtendedMessage with id-\*Emit the message to recipient(wait for ack? => received extendedMessage this will unsure that message delivered, but complicate code); -If recipient offline: \* SQL query update messages(unread = true) -Return posted extendedMessage with ID Date: Project name: 07-03-2023 Messanger Design: Drawing name/no Draw: Ver. Messages flow 1.0 Approved:

## Database tables and relations



### User Model:

userld: number; firstName: string; lastName: string; gender: number; username: string; password: string; isOnline: boolean;

## Credentials Model:

username: string; password: string;

# Message Model:

messageld: number; messageDate: string; messageBody: string; senderUserld: number; recipientUserld: number; unread: boolean

### Extended Message Model:

messageld: number; messageDate: string; messageBody: string; senderUserld: number; recipientUserld: number; unread: boolean

+senderUsername: string; +recipientUserName:string

\* usernames data comes from join sql query.

	Project name:  Messanger		Date:	07-03-2023	
			Design:		
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	DB & Models	1.0	Approved:		