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| **Use case name:** | User Sends Message | |
| **Scenario:** | A user sends another user a message | |
| **Triggering event:** | User chooses to send a message | |
| **Brief description:** | A user will have the option to send a private message to another user | |
| **Actors:** | User | |
| **Related use cases:** | User logs in | |
| **Stakeholders:** | Users, Admins | |
| **Preconditions:** | User must be registered  The user must not be blocked | |
| **Postconditions:** | Message is stored in database  Receiver gets indication that they have a message | |
| **Flow of activities:** | **Actor**   1. User chooses to send a message 2. User selects the person they want to private message 3. User hits the Send button | **System**   * 1. System displays a list of available users   2.1 System displays user with a text area to compose message  3.1 System adds message to database and the receivers inbox is updated to display an unread message |
| **Exception conditions:** | 1.1 User is not logged in  2.1 The user has been blocked  3.1 Database is unavailable | |

The following diagram is the use case diagram for the “User sends a message” use case. The diagram has one actor who is the user of the Chat Away app. The use case that the user directly interacts with is the “Send a message” use case. This use case also includes “User logs in”.



The next diagram is the Activity Diagram for Send a message. The diagram start with the User who hits the Message button. The system then displays a list of contacts that the user can send a message to. The user then chooses the contact that they want to send the message to. The system displays a text area that the user can compose the message in. Once the user composes the message they hit Send. The system stores the message in the database and the contact is notified of a new message.



The next diagram is the system sequence diagram for sending a message. The first input to the system is a request to show a list of contacts and the user ID is passed to the system. The system then returns a contact list. The user then initiates a message by choosing a user and the username of that user and user ID is sent to the system. The system assigns a message ID to the message and the user composes the message. The message content along with the message ID and user ID is then sent to the system. The system shows the user a confirmation that the message was sent.

