

## Group no: 14

### Vulnerability Type:

Security

**Brief Discription:** There no limit on length check in messages. So i can send vey large message (>10000 words) so that as system attempts to process and render the data it uses significant resources and I can also thus fill the server database as well with large msgs to cause DOS attack vulnerability.

### Steps to Reproduce:

- 1) Go to <https://192.168.2.246/profile/messages/>
- 2) Select any user to chat with and sens a very large msg (like 10000 words)
- 3) Then in the inspect tab (ctrl+sft+i) we can see the failed WebSocket communication and repeated fetch calls to profile/messages/fetch/?receiver=126.

### Proof of Concept:

I have send multiple large messages of approx 10000 words each. As there is no limit on msg length, i can see that the web socket is failing anf the site is becoming slow with periodic fetch failures every few seconds.

The screenshot displays a web browser window with a chat application. On the left, there's a 'Chat Users' list with names like elonmusk, arnav, goglu, zoom, walt, waly, walu, kavya, anon, arnav\_ali, Shreyas, ECS, Bob, annika, 2022252okok, newuser1, abc2, devil, devil11, poti, Smith, abc3, parisha, vishal18, Piyush, rahul22389, rahul222389, testing345fcs2, test\_user\_1, king1813, planet\_earth, parisha123, livid, 1234, and parishad46. The chat area shows a message from 'abc1' containing a large block of Lorem Ipsum text. On the right, the developer console is open, showing a network tab with a list of requests. The requests include a failed WebSocket connection to 'ws://192.168.2.246/ws/chat/126/' and several repeated GET requests to 'https://192.168.2.246/profile/messages/fetch/?receiver=126&last\_message\_id=200' with a 'net::ERR\_CONTENT\_LENGTH\_MISMATCH' error. The console also shows a 'TypeError: Failed to fetch' error for a fetch call to 'fetchNewMessages'.

### Impact:

I can repeatedly send large messages and can crash or hang the server/client by filling up the database and thus disrupting service for others thus causing a Denial of Service (DoS) attack. As there is no input sanitization or message size limit the site is vulnerable to abuse and performance degradation.