

For Testing I did 3 types of testing:

- Load Testing
- Unit/UI Tests
- Manual Tests

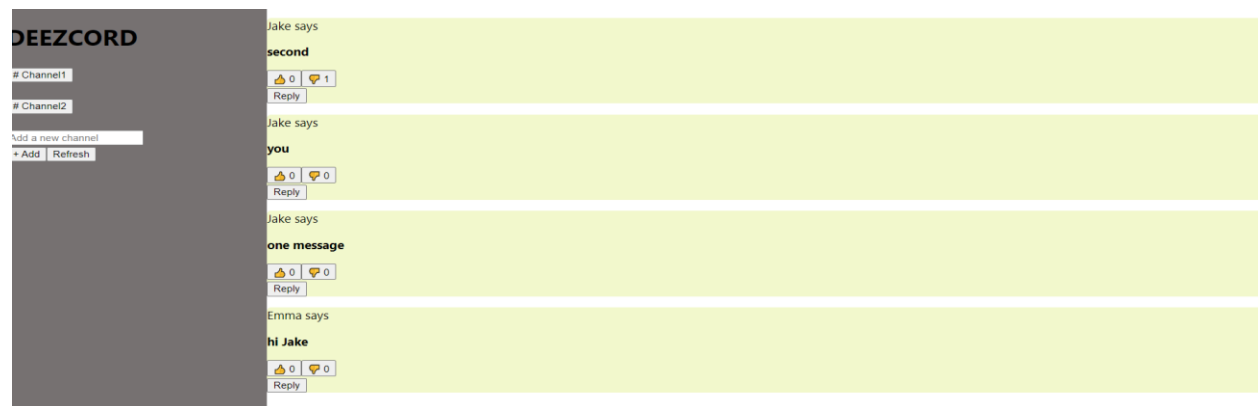
I did load tests on the api functions to ensure that they work and can handle different data sizes

```
olale@DESKTOP-L00IVEM MINGW64 ~/Documents/CMPT_353/Project (implement-home-screen)
$ loadtest -n 1 -c 1 --data '{"username": "John", "data": "new data"}' -T 'application/x-www-form-urlencoded' -m POST http://localhost:81/createMessage
[Thu Apr 06 2023 22:26:17 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:22 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:27 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:32 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:37 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:42 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:47 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:52 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:26:57 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:27:02 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
[Thu Apr 06 2023 22:27:07 GMT-0600 (Central Standard Time)] INFO Requests: 0 (0%), requests per second: 0, mean latency: 0 ms
```

I carried out frontend UI tests using react-testing-library to ensure that all the pages render and display as needed

```
app > src > tests > AdminPage.test.jsx > ...
1 import React from 'react';
2 import { render, fireEvent, waitFor, screen } from '@testing-library/react';
3 import AdminPage from '../pages/AdminPage';
4
5 describe('Admin Page', () => {
6   it('should render the admin page without crashing', () => {
7     render(<AdminPage />);
8   });
9   it('should have DEEZCORD ADMIN in the page', () => {
10    render(<AdminPage />);
11    expect(screen.getByPlaceholderText('DEEZCORD ADMIN')).toBeInTheDocument();
12  });
13 });
```

I also performed manual tests, testing all the functionality of the system by trying them out myself



Doing all these 3 tests allowed me to achieve high coverage, testing all parts and component of the system and ensuring that all works fine.