Testing for Sprint2:

Authentication & Validation

Goals:

☐ **Display Log-In Page**

    ☐ *Users need to see a log-in screen in order to enter their credentials to access the CRM.*

        ☐ Log-in page loads

        ☐ Fields for the username and password are visible

        ☐ "Log-in" button exists and is shown

☐ **Credential Verification**

    ☐ *Users need their credentials verified. Only authorized users may log in to the system.*

        ☐ Valid credentials grant access

        ☐ invalid credentials show an error

        ☐ Message will prompt user to re-enter their credentials

☐ **Session Establishment**

    ☐ *If the user has logged in, keep their session active after login to prevent unnecessary re-authentication.*

        ☐ Session token stored securely

        ☐ Expiration policy set (e.x. 20 minutes without activity --> log-out)

        ☐ Redirect works post log-in

Successful Log-in Attempt (Basic Log-in Endpoint):

- Testing done prior to setting expiration policy

- Showing testing page loads

- Showing browser console with success token

  - Successful log-in occurred automatically as the front end page contained the log-in credentials and validated them upon loading.
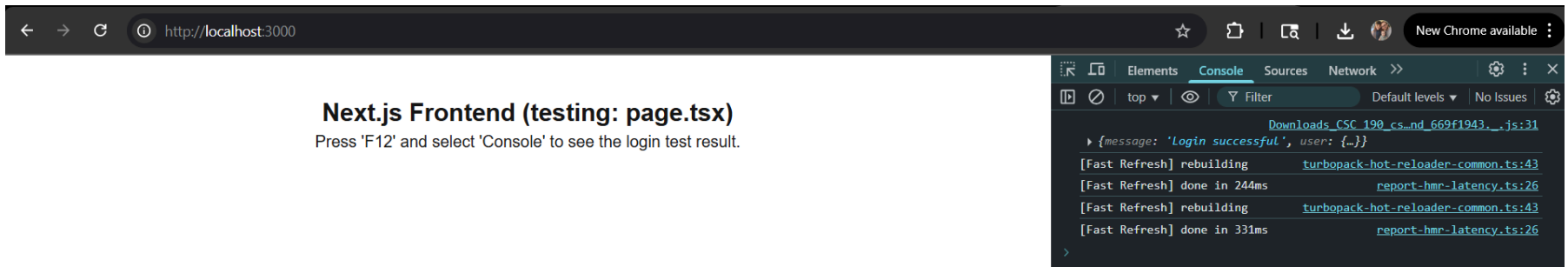
Added a testing log in on page.tsx (front-end):

- Shows there hasn't been a log-in attempt in the browser console
- Displays a basic login page requesting a username and password
- Code now has an implemented time function to verify session establishment and log-out user due to inactivity for over 20 minutes. (Not tested here)
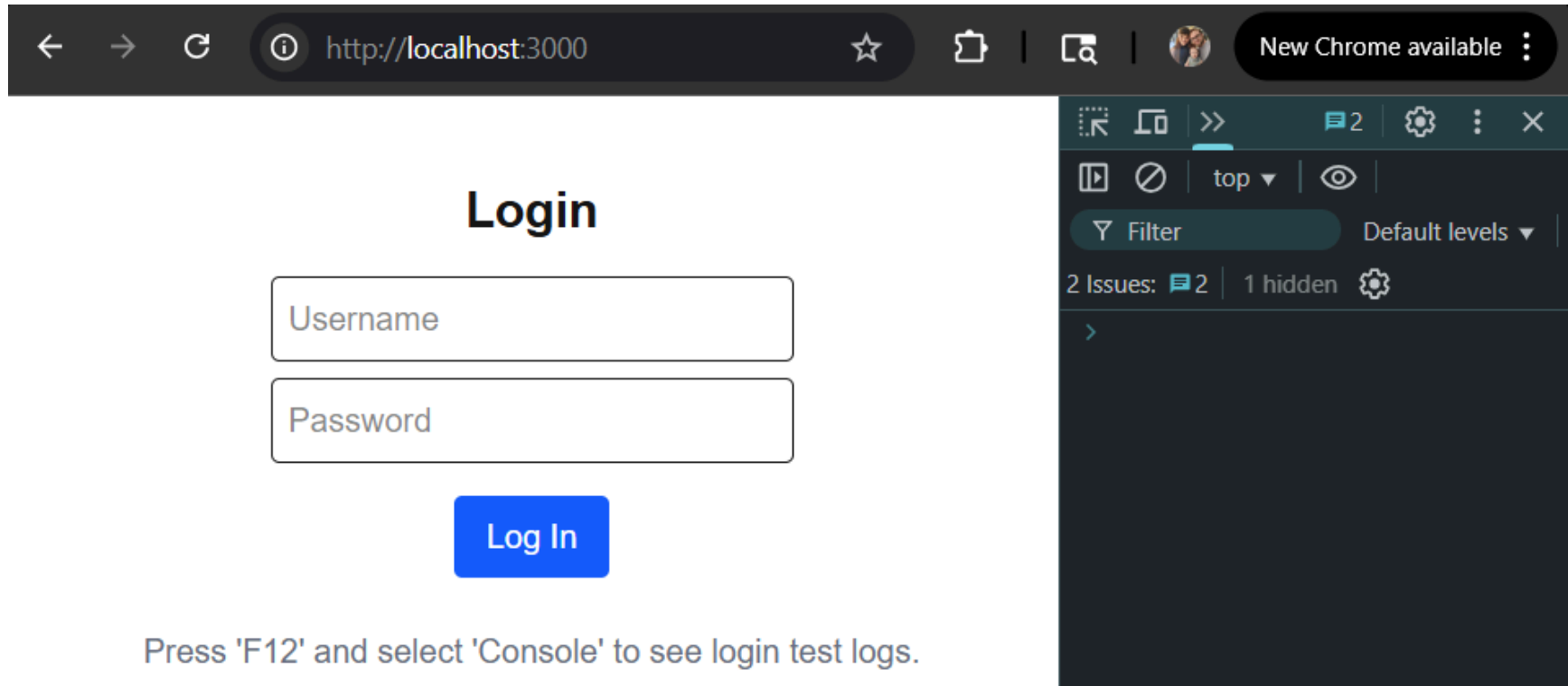
Successful Log-In Attempt:

- Successful log-in with username: admin and password: 1234
- Success message displayed in the browsers console

Invalid Credentials Log-In:

- Displays an error message within the browsers console
- Does not allow user to proceed passed the log-in page without valid credentials
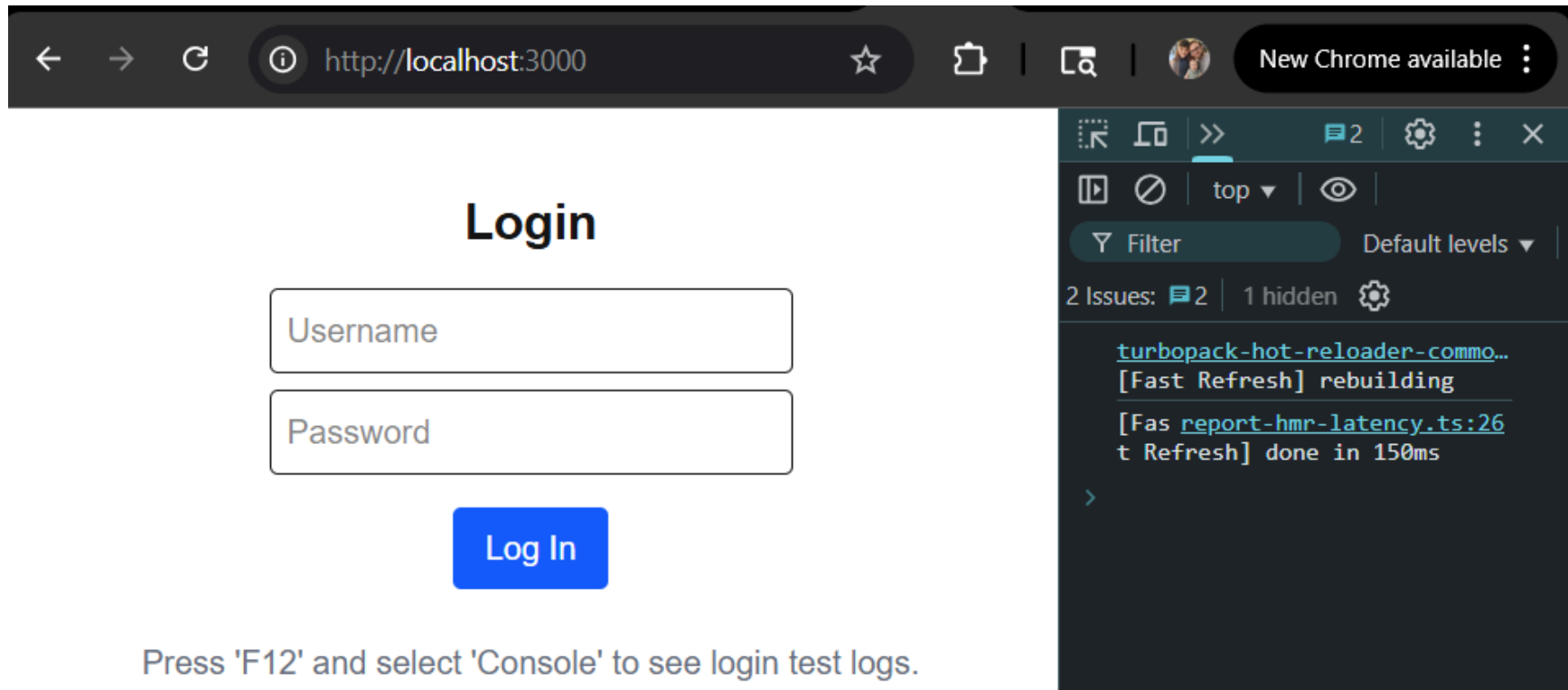
Logged Out After Inactivity:

- Force session to expire after the inactivity period and request the user to re-log-in.
- The JSON tokens have been cleared to establish a new timer connection period.
- For testing, changed the resetTimer function in layout.tsx to be a 15 second timer, instead of 20 minutes:

```
}, 15 * 1000); // 15 seconds for testing instead of 20 minutes
```
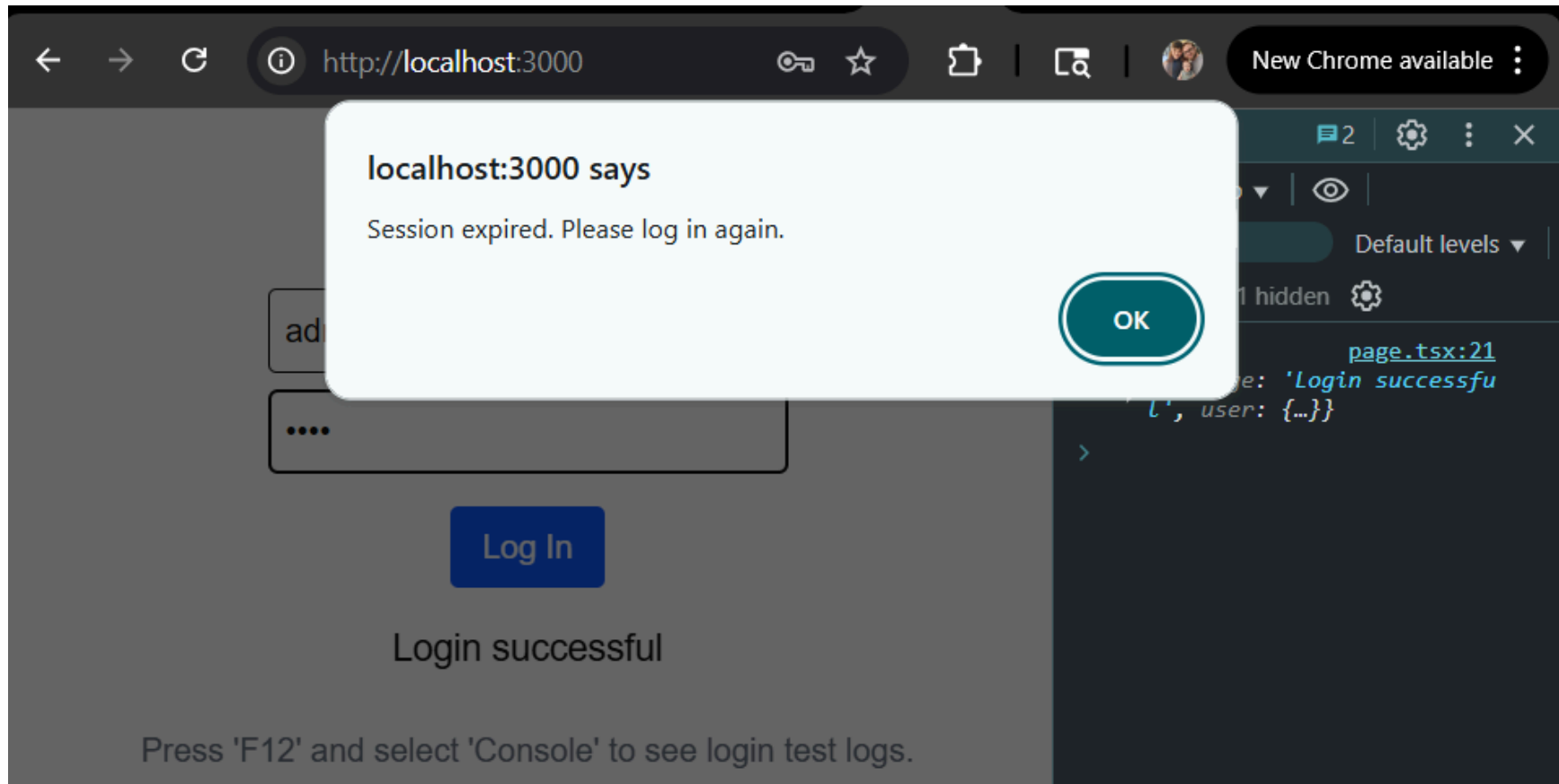
After clicking 'OK':

- After the session expires, the user is notified.
- Upon selecting "OK" to acknowledge the time-out message, the page is reloaded.
- A new log-in attempt is requested.

User activity detected, continuing the user session:

- If any sort of activity (cursor click, movement, keyboard input) is detected, then the timer resets.
- The user session will continue as long as there is user input detected.
- 20 minute timer session will be established and reset upon any detected input.