

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**

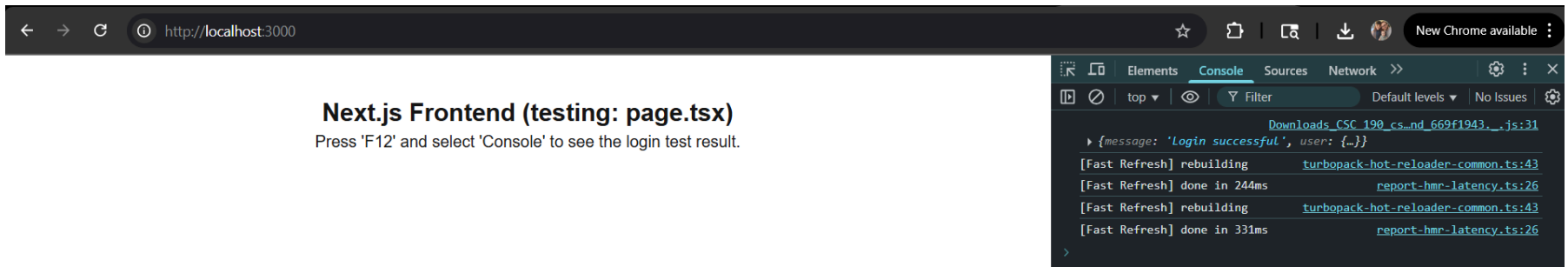
- ☐ *Users need their credentials verified. Only authorized users may log in to the system.*
  - ☐ Valid credentials grant access
  - ☐ invalid credentials show an error
  - ☐ Message will prompt user to re-enter their credentials

☐ **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

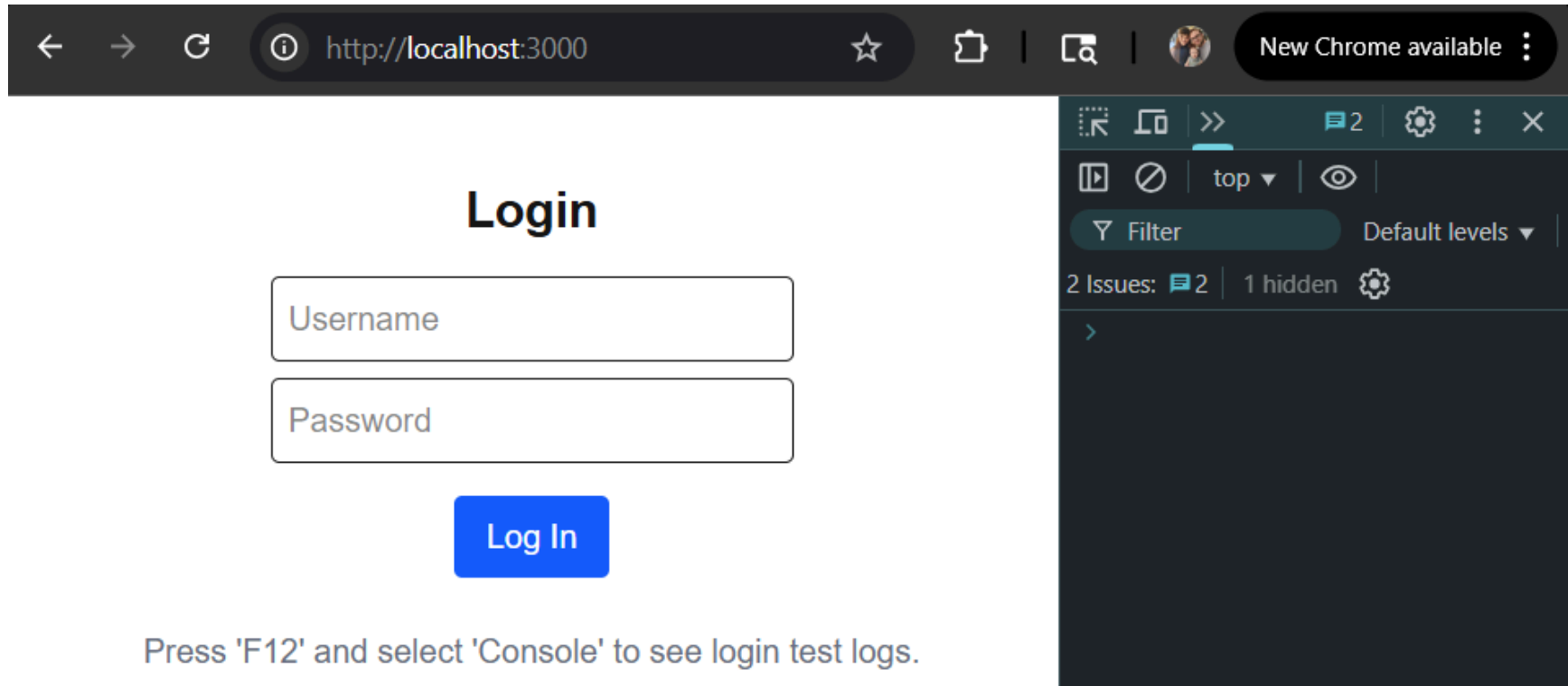
### Successful Log-in Attempt (Basic Log-in Endpoint):

- 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

http://localhost:3000

## Login

admin

...| 1234

Log In

Login successful

Press 'F12' and select 'Console' to see login test logs.

```
page.tsx:21
{message: 'Login successfu
l', user: {...}}
```

### 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

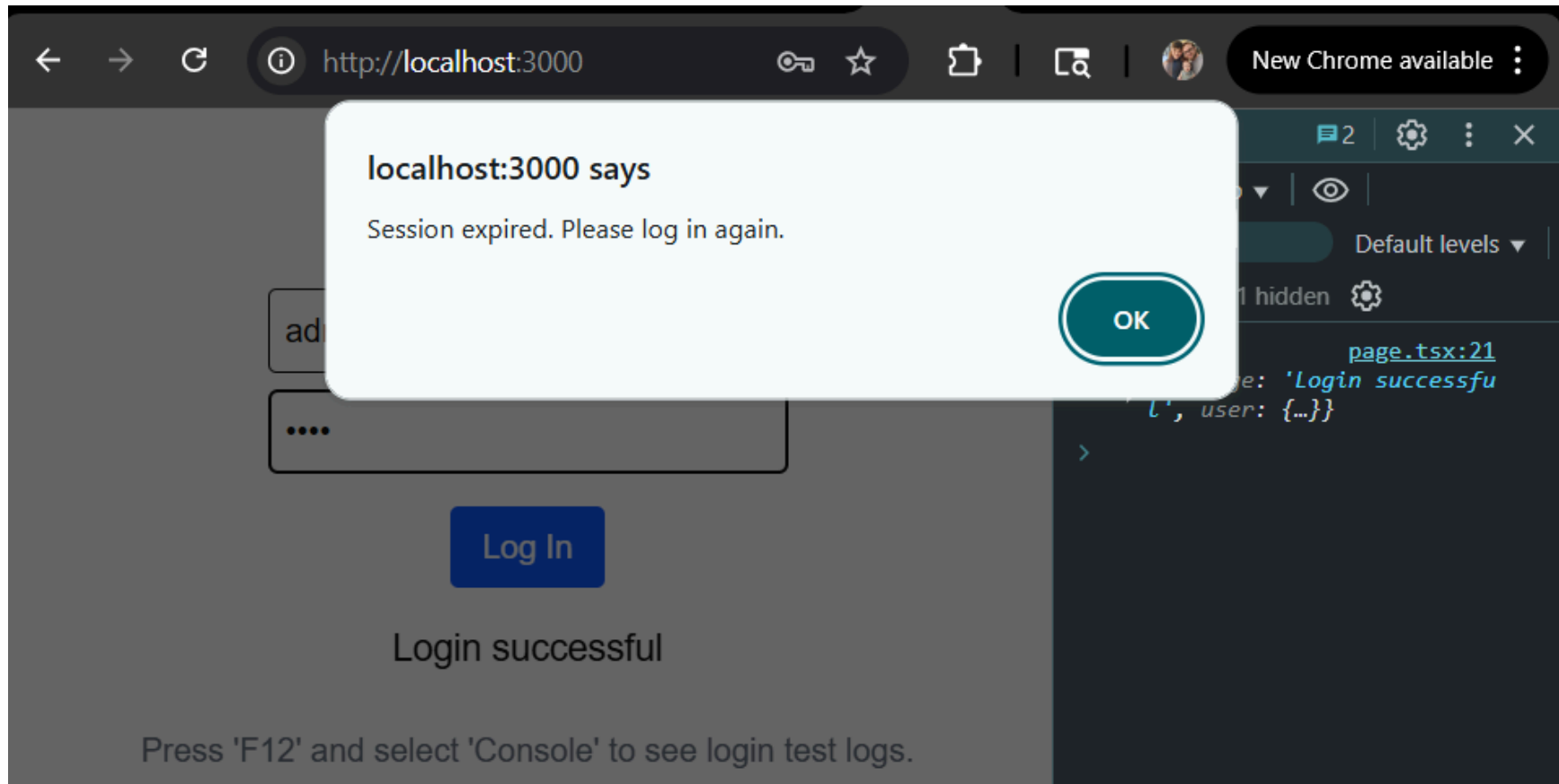
The screenshot shows a web browser at `http://localhost:3000` displaying a login page. The page has a title "Login" and two input fields. The first field contains the text "wrong\_user". The second field contains five dots, indicating a password. Below the input fields is a blue button labeled "Log In". Below the button, the text "Invalid credentials" is displayed. The browser's developer console is open on the right side, showing a JavaScript error: `{message: 'Invalid credentials'}` at `page.tsx:21`. A red arrow points to the error message in the console. Below the browser window, the text "Press 'F12' and select 'Console' to see login test logs." is displayed.

Press 'F12' and select 'Console' to see login test logs.

### Logged Out After Inactivity:

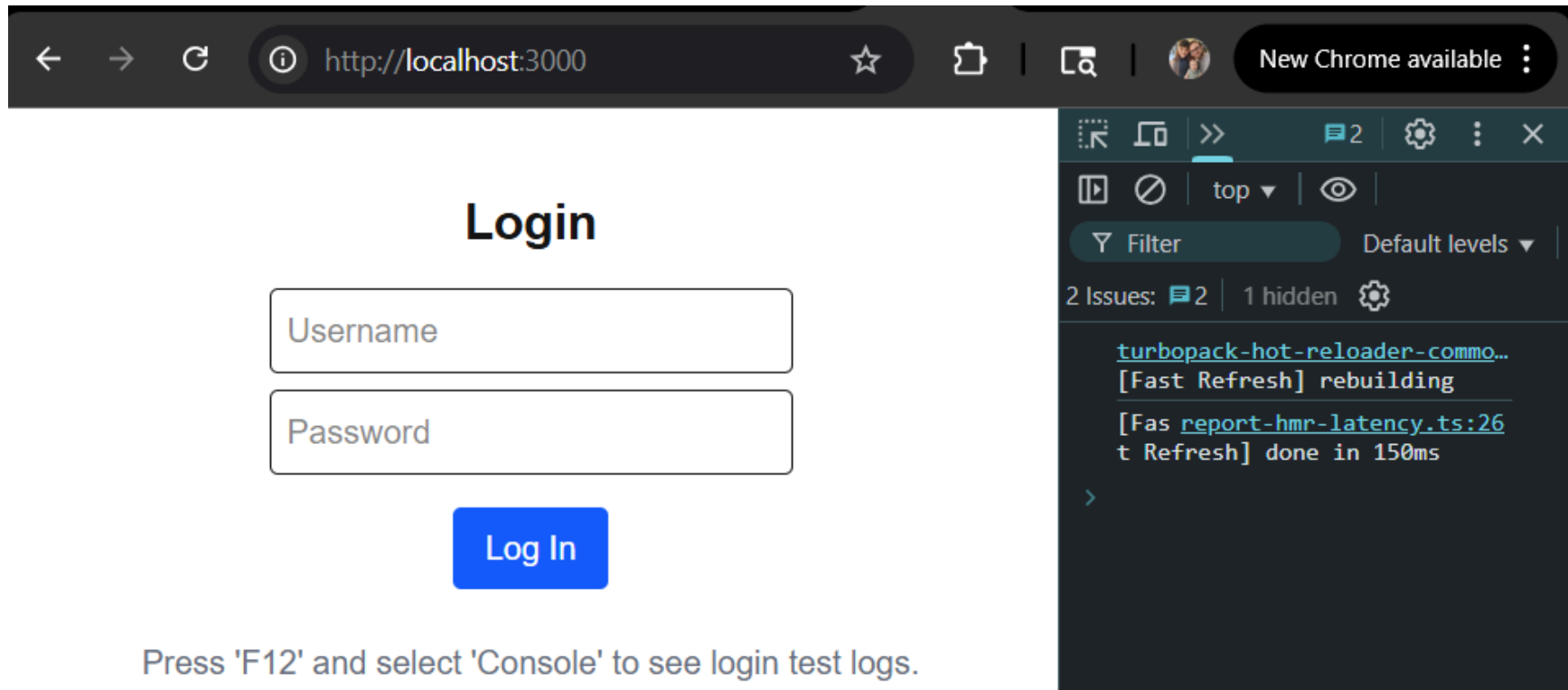
- Force session to expire after the inactivity period and request the user to re-log-in.
- The JSON tokens have been cleared to establish a new timer connection period.
- For testing, changed the resetTimer function in layout.tsx to be a 15 second timer, instead of 20 minutes:

```
}, 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.



The screenshot shows a web browser at `http://localhost:3000` displaying a login page. The page has a title "Login" and two input fields labeled "Username" and "Password". Below the fields is a blue "Log In" button. To the right, the Chrome DevTools console is open, showing two log messages:

```
turbopack-hot-reloader-commo...  
[Fast Refresh] rebuilding  
[Fas report-hmr-latency.ts:26  
t Refresh] done in 150ms
```

Below the browser window, a text instruction reads: "Press 'F12' and select 'Console' to see login test logs."

### 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.

The screenshot shows a web browser window with the address bar displaying `http://localhost:3000`. The page content includes a "Login" heading, a text input field containing "admin", a password input field with masked characters, a blue "Log In" button, and the text "Login successful". Below this, a note says "Press 'F12' and select 'Console' to see login test logs.".

The Chrome DevTools console is open on the right, showing two messages:

```
turbopack-hot-reloader-commo...  
[Fast Refresh] rebuilding  
[Fas report-hmr-latency.ts:26  
t Refresh] done in 150ms  
page.tsx:21  
  {message: 'Login successfu  
l', user: {...}}  
>
```