

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

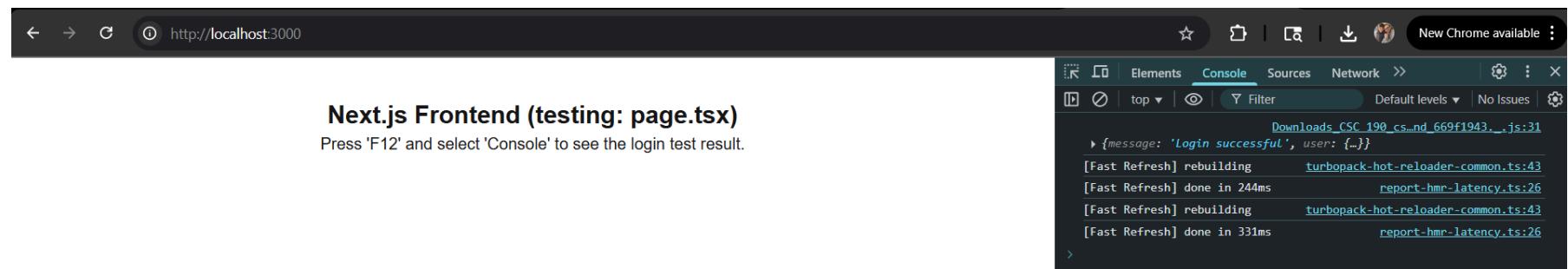
- Users need their credentials verified. Only authorized users may log in to the system.*
 - Valid credentials grant access
 - invalid credentials show an error
 - Message will prompt user to re-enter their credentials

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)

The screenshot shows a web browser window with a dark theme. At the top, the address bar displays `http://localhost:3000`. The main content area shows a "Login" page with fields for "Username" and "Password", and a blue "Log In" button. To the right of the page is the browser's developer tools, specifically the "Console" tab. The console shows the following log entries:

```
2023-09-12T14:45:23.000Z - info: User logged in: test@example.com
2023-09-12T14:45:23.000Z - info: Session established for user: test@example.com
2023-09-12T14:45:23.000Z - info: User logged out: test@example.com
2023-09-12T14:45:23.000Z - info: Session terminated for user: test@example.com
```

Below the console, a message reads: "Press 'F12' and select 'Console' to see login test logs."

Successful Log-In Attempt:

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

The screenshot shows a browser window with a "Login" form. The URL bar shows "http://localhost:3000". The developer tools' "Console" tab is open, displaying the message "Login successful" from "page.tsx:21".

Login Form:

- Username: admin
- Password: 1234

Log In

Login successful

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

```
page.tsx:21
  ▶ {message: 'Login successful', user: {...}}
```

Invalid Credentials Log-In:

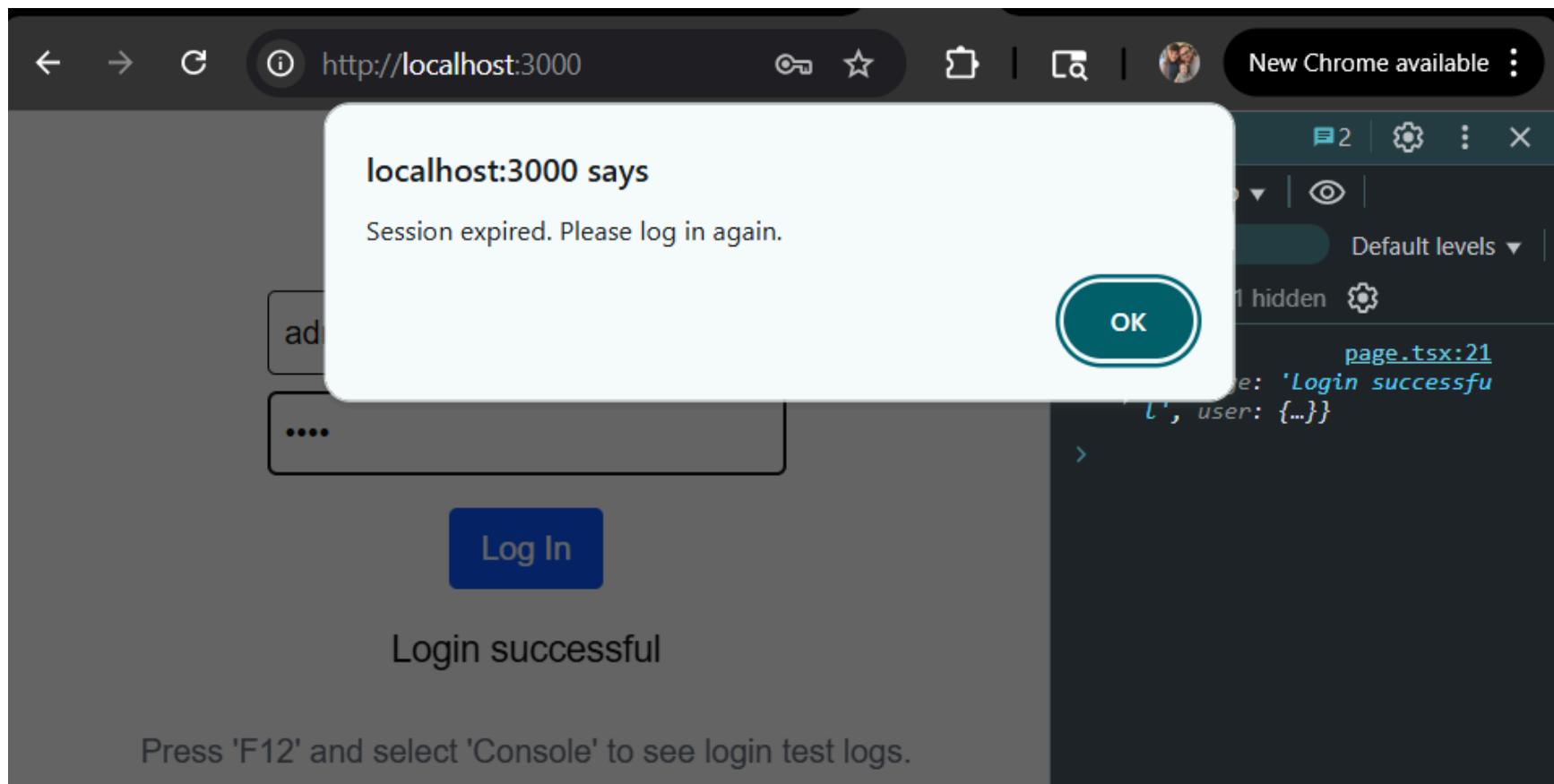
- Displays an error message within the browsers console
- Does not allow user to proceed passed the log-in page without valid credentials

The screenshot shows a browser window with the URL `http://localhost:3000` in the address bar. The main content is a login form with two fields: 'username' containing 'wrong_user' and 'password' containing '*****'. A blue 'Log In' button is below the fields. Below the button, the text 'Invalid credentials' is displayed in red. At the bottom of the page, a message says 'Press 'F12' and select 'Console' to see login test logs.' On the right side of the browser, the developer tools are open, specifically the 'Console' tab. It shows a single error message: `page.tsx:21 {message: 'Invalid credentials'}`. A red arrow points from the text 'Invalid credentials' in the browser's body up towards this message in the console.

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 browser window with a dark theme. The address bar displays `http://localhost:3000`. The main content area shows a "Login" form with fields for "Username" and "Password", and a blue "Log In" button. To the right of the form is a developer tools sidebar. The sidebar has tabs for "Sources", "Elements", "Network", and "Console". The "Network" tab is selected, showing a list of requests. The "Console" tab is visible below it. The sidebar also includes a "Filter" dropdown, a "Default levels" dropdown, and a message indicating "2 Issues". Two specific issues are listed:

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

A blue arrow icon points from the text "Press 'F12' and select 'Console' to see login test logs." towards the "Console" tab in the sidebar.

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 browser window with a login form and an open developer tools panel.

Browser Header:

- Back/Forward buttons
- Refresh button
- Address bar: `http://localhost:3000`
- Secure lock icon
- Star icon
- Open in new tab icon
- Search icon
- User profile icon
- New Chrome available

Login Form:

Username: admin
Password:

Log In

Developer Tools - DevTools Panel:

- Panel tabs: `Elements`, `Elements` (highlighted), `Console`, `Network`, `Performance`, `Timeline`, `Memory`, `Style`, `Logs`, `Sources`, `File System`.
- Top right controls: `⋮`, `X`, `⋮`, `⋮`, `⋮`, `⋮`, `⋮`, `⋮`.
- Sub-panel: `Filter`, `Default levels`.
- Issue count: `2 Issues: 2 | 1 hidden`.
- Issues listed:
 - `turbopack-hot-reloader-commo...` [Fast Refresh] rebuilding
 - `[Fas report-hmr-latency.ts:26` t Refresh] done in 150ms
- Code snippet in the console:

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

Message: Login successful

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