

Header Component (SCRUM-19)

[SCRUM-26] Application Broken Styling Due to Invalid localStorage Theme Value - No Fallback Mechanism

Created: 05/лют./26 Updated: 05/лют./26 Due: 08/лют./26

Status:	In Progress
Project:	WaterTracker
Components:	None
Affects versions:	None
Fix versions:	None
Parent:	Header Component

Type:	Bug	Priority:	Highest
Reporter:	Nat	Assignee:	Nat
Resolution:	Unresolved	Votes:	0
Labels:	Header		
Remaining Estimate:	Not Specified		
Time Spent:	Not Specified		
Original estimate:	Not Specified		
Environment:	<ul style="list-style-type: none">Operating System & Version: macOS Sonoma 14.7Browser & Version: Chrome 144.0.7559.110Application Build/Version: 1.0.0Environment Type: Production		

Attachments:	
Rank:	0 i00047:
Team:	
Start date:	04/лют./26
Sprint:	
Severity:	Critical

Description

Preconditions

1. Open the application in a web browser
2. Open Developer Tools
3. Navigate to Application tab → Storage → Local Storage
4. Find the theme key

The screenshot shows the Water Consumption Tracker application running in a browser. The developer tools are open, specifically the Application tab under the Storage section. A red arrow points to the 'localStorage' table, highlighting the 'app-theme' key with the value 'light'. The application interface shows a splash screen with water droplets and a central text box about the benefits of drinking water.

The screenshot shows a browser developer tools interface. At the top, there's a navigation bar with tabs like Network, Performance, Memory, Application, Privacy and security, Lighthouse, AdBlock, Redux, Components *, Profiler *. Below the tabs, the URL <https://watertracker-2o4z.onrender.com> is visible. The main content area displays a 'Sign Up' form with fields for Email, Password, and Repeat password, along with a 'Sign Up' button. To the left of the form is a decorative illustration of a water bottle and splashing water. At the bottom of the page, there's a footer with links like Sign In, Sign Up, and Help.

Network Tab Data:

Key	Value
app-theme	light
persist:auth	{"user": "0", "token": "null", "isLoggedIn": "false", "_persist": {"version": -1, "rehydrated": true}}

Steps to Reproduce

1. Set the invalid value to a theme (manual localStorage manipulation).
2. Reload the application.
3. Set the invalid value to a theme (console manipulation):

```
localStorage.setItem('theme', 'invalid-theme-name');
location.reload();
```

Invalid Theme Values Examples:

- Non-existent theme: "random", "purple", "custom"
- Wrong data type: 123, true, false
- Object: {}
- Array: []
- Null as string: "null"
- Undefined as string: "undefined"

1. Observe the page rendering.
2. Click the Theme Toggle button
3. Observe the application behavior

Expected Result

- Application reads theme value from localStorage
- Validates if value is one of supported themes ("light", "dark")
- If invalid, it falls back to the default theme (light)
- Application displays with correct light theme styling
- Theme switching: theme changes from light to dark (or vice versa), and all styles update correctly.

Actual Result

- Application displays with broken styles after setting an invalid theme and reloading the page.
- Forms for signing in and signing up are unreadable.
- Invalid value persists in localStorage.
- On Theme Toggle click: switch to valid theme; localStorage state update to valid value only after toggle.

The screenshot shows a browser developer tools interface with the Network tab selected. A single network request is visible, which is a POST request to the URL `/api/auth/signin`. The response body of this request is displayed in the details panel, showing JSON data related to user authentication.

```
> localStorage.setItem('app-theme', "true");
location.reload();
< undefined
> localStorage.setItem('app-theme', "[ ]");
location.reload();
< undefined
> localStorage.setItem('app-theme', "null");
location.reload();
< undefined
> localStorage.setItem('app-theme', "undefined");
location.reload();
< undefined
```

The screenshot shows a browser developer tools interface with the Application tab selected. The main content area displays the "Water Consumption Tracker" page. On the left, there's a sidebar with "Tracker Benefits" and a "Try tracker" button. On the right, there's a box titled "Why Drink Water?" listing various benefits. The application tab also shows the current state of local storage items.

Key	Value
app-theme	custom
persist:auth	{"user": {}, "token": null, "isLoggedIn": false}

The screenshot shows a browser developer tools interface with the Application tab selected. The main content area displays the "Water Consumption Tracker" page. On the left, there's a sidebar with "Tracker Benefits" and a "Try tracker" button. On the right, there's a box titled "Why Drink Water?" listing various benefits. The application tab shows the current state of local storage items.

Key	Value
app-theme	custom
persist:auth	{"user": {}, "token": null, "isLoggedIn": false}

The screenshot shows a web browser window with a sign-up form for "Water Tracker". The form includes fields for "Enter your email" (E-mail), "Enter your password" (Password), and "Repeat password" (Repeat password). Below the form is a "Sign Up" button and a "Sign In" link.

Network Performance Memory Application Privacy and security Lighthouse AdBlock Redux Components *

C ⌂ Filter https://watertracker-2o4z.onrender.com

Key	Value
app-theme	123
persist:auth	{"user": {}, "token": null, "isLoggedIn": false}

The screenshot shows a web browser window with a sign-up form for "Water Tracker". The form includes fields for "Enter your email" (E-mail), "Enter your password" (Password), and "Repeat password" (Repeat password). Below the form is a "Sign Up" button and a "Sign In" link.

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Key	Value
app-theme	{}
persist:auth	{"user": {}, "token": null, "isLoggedIn": false}

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