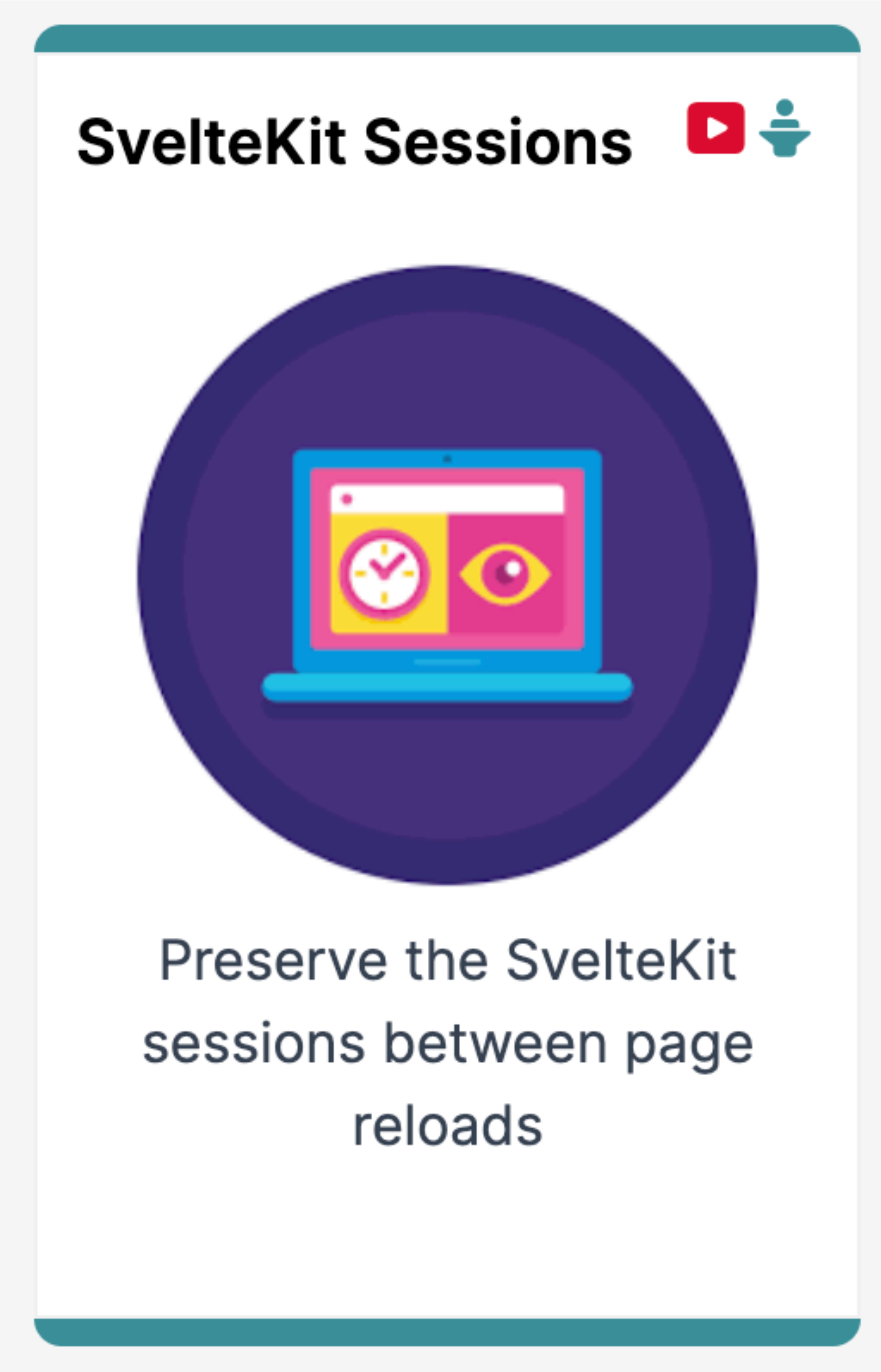
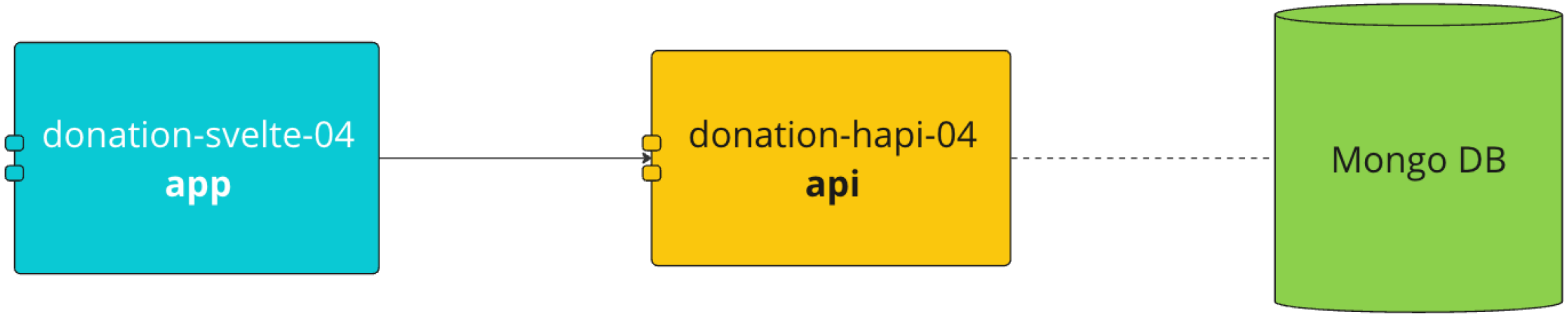


SvelteKit Sessions

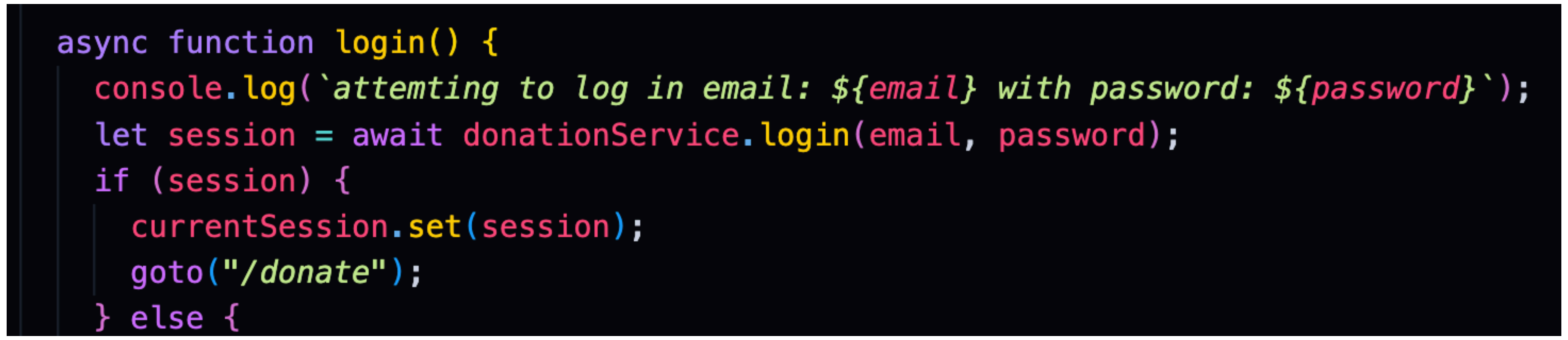
Preserve the SvelteKit sessions between page reloads

Svelte Authentication



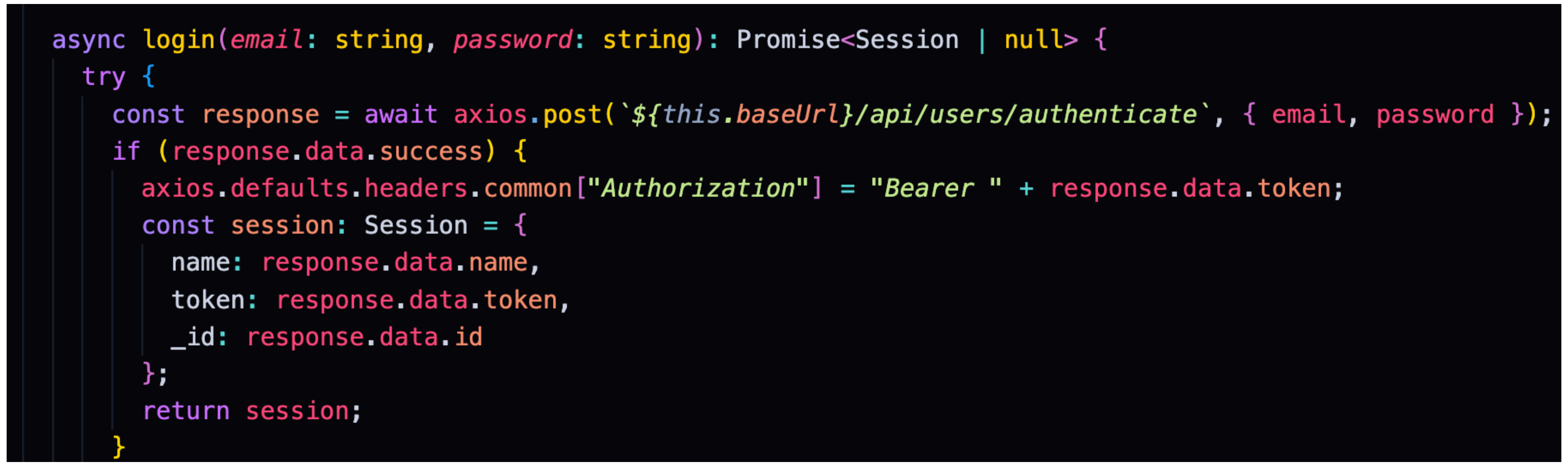
- Attach to the Donation-svelte API
- Signup / Login using Users API

LoginForm.svelte



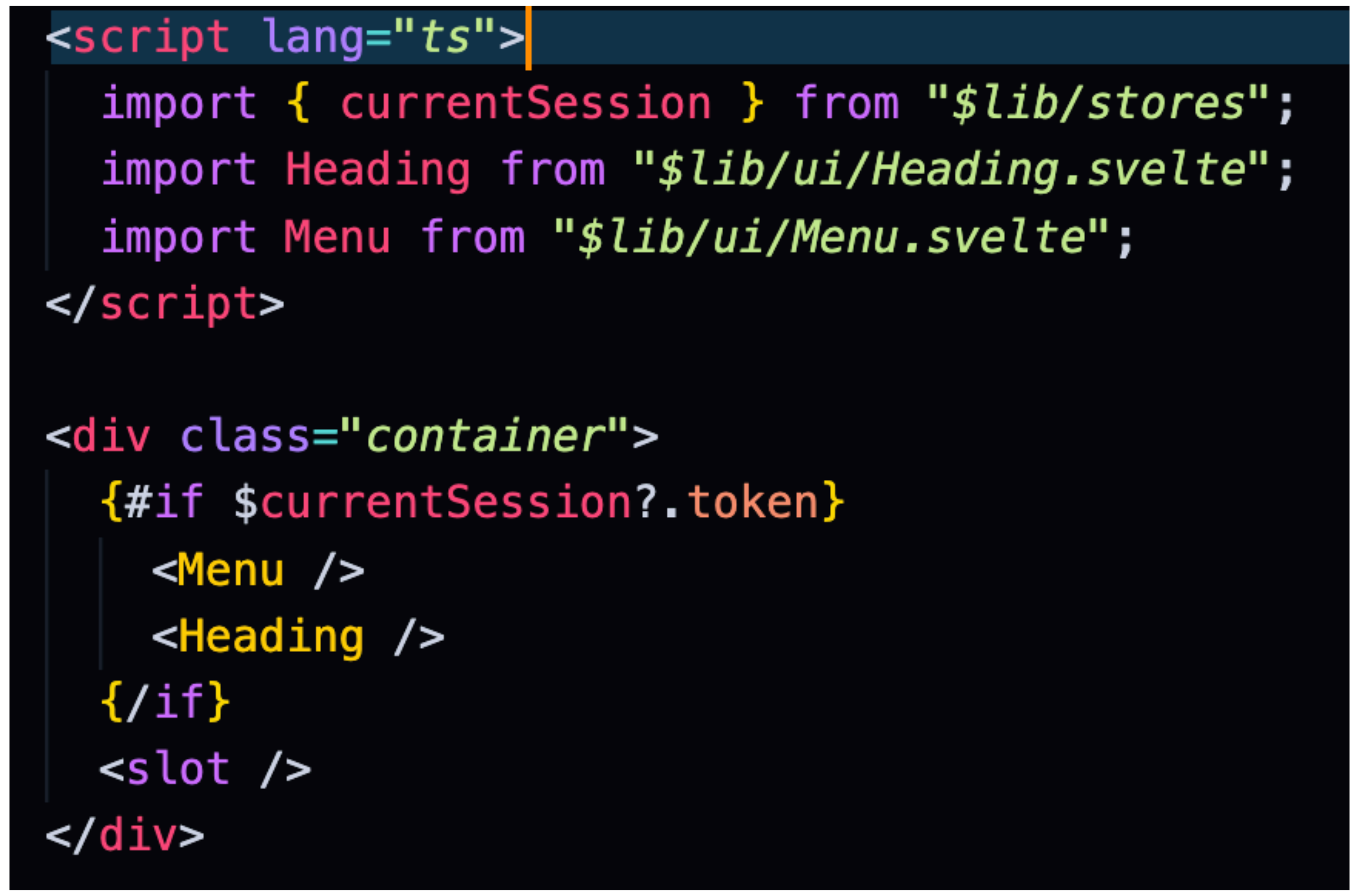
```
async function login() {
  console.log(`attemting to log in email: ${email} with password: ${password}`);
  let session = await donationService.login(email, password);
  if (session) {
    currentSession.set(session);
    goto("/donate");
  } else {
```

donation-service.ts



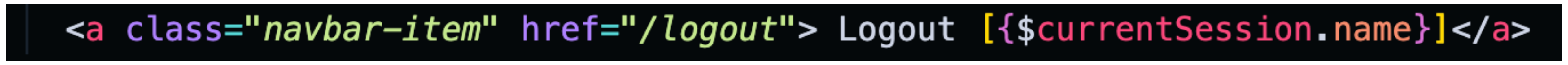
```
async login(email: string, password: string): Promise<Session | null> {
  try {
    const response = await axios.post(`${this.baseUrl}/api/users/authenticate`, { email, password });
    if (response.data.success) {
      axios.defaults.headers.common["Authorization"] = "Bearer " + response.data.token;
      const session: Session = {
        name: response.data.name,
        token: response.data.token,
        _id: response.data.id
      };
      return session;
    }
```

+layout.svelte

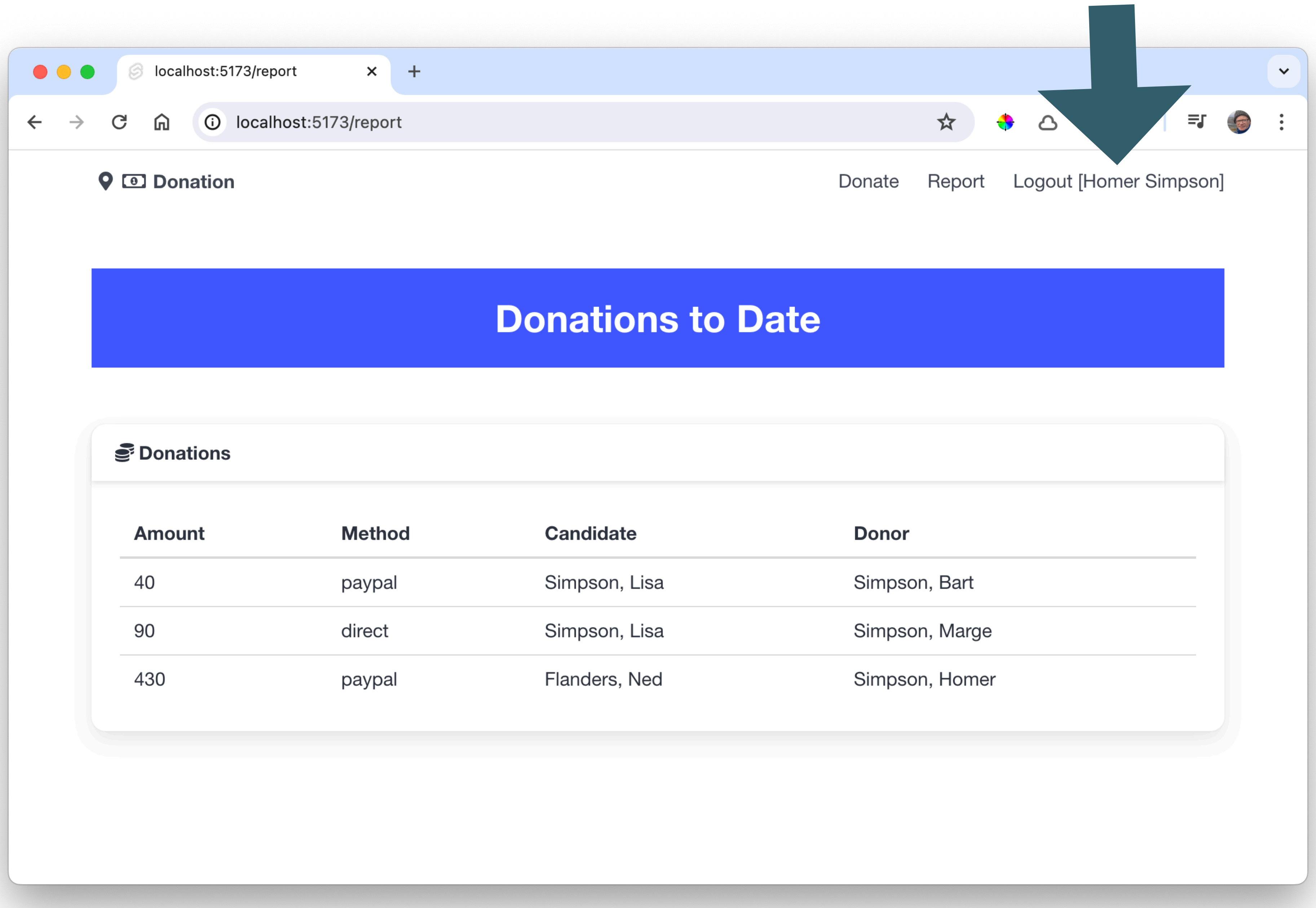


```
<script lang="ts">
  import { currentSession } from "$lib/stores";
  import Heading from "$lib/ui/Heading.svelte";
  import Menu from "$lib/ui/Menu.svelte";
</script>

<div class="container">
  {#if $currentSession?.token}
    <Menu />
    <Heading />
  {/if}
  <slot />
</div>
```

- Logged in user name displayed in menu



```
<a class="navbar-item" href="/logout"> Logout [{$currentSession.name}]</a>
```

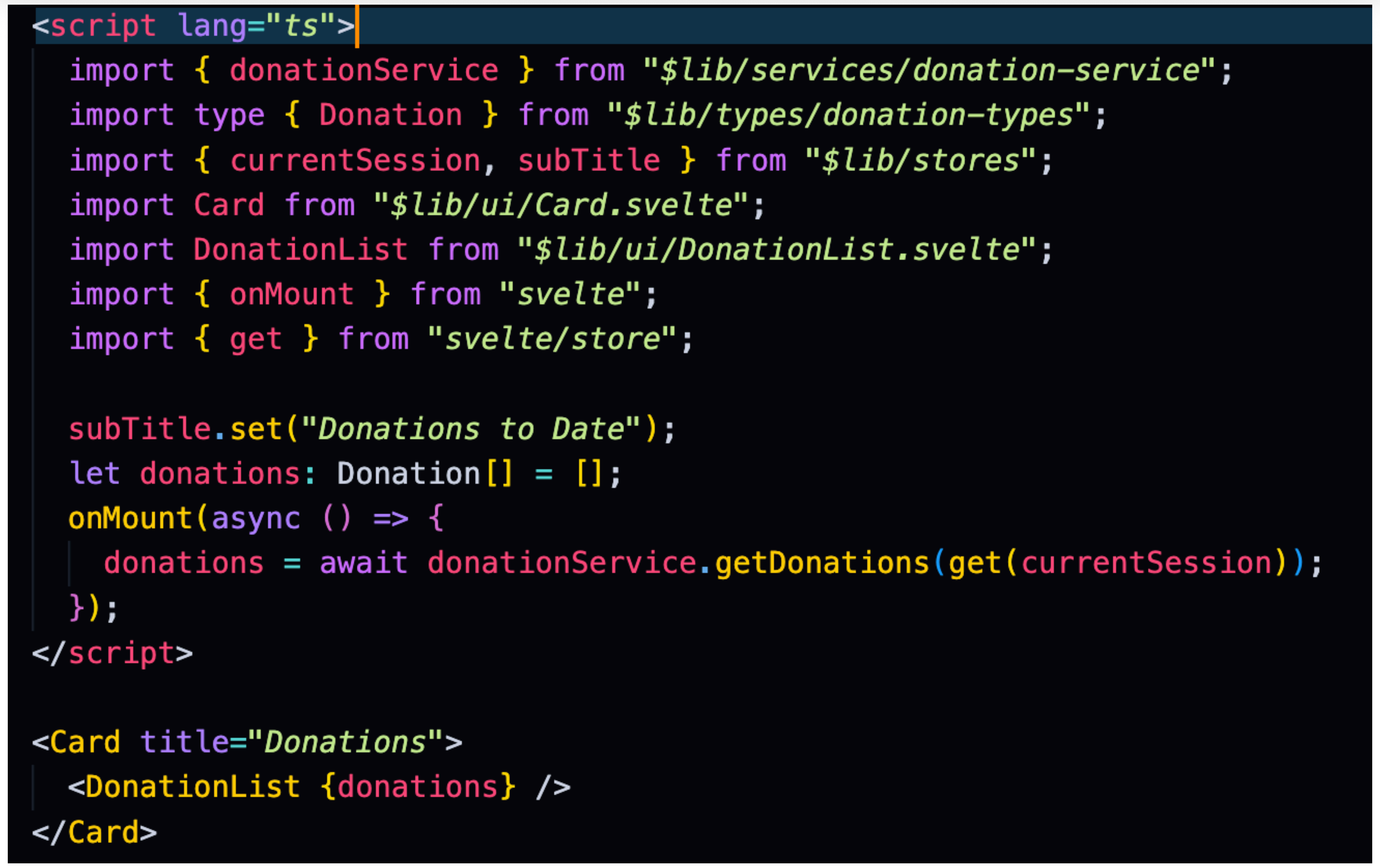


Donations to Date

Donations

Amount	Method	Candidate	Donor
40	paypal	Simpson, Lisa	Simpson, Bart
90	direct	Simpson, Lisa	Simpson, Marge
430	paypal	Flanders, Ned	Simpson, Homer

+report.svelte

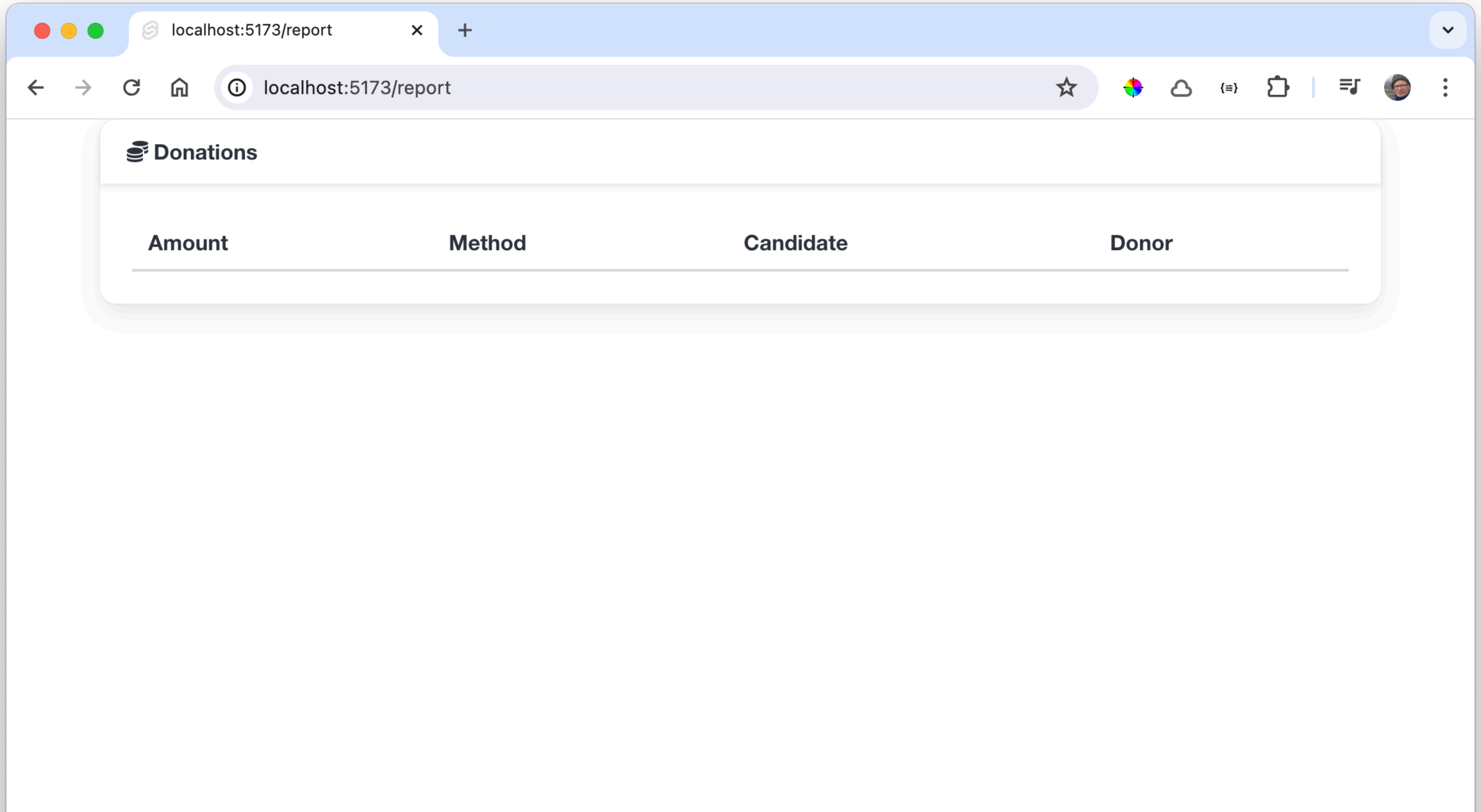


```
<script lang="ts">
  import { donationService } from "$lib/services/donation-service";
  import type { Donation } from "$lib/types/donation-types";
  import { currentSession, subTitle } from "$lib/stores";
  import Card from "$lib/ui/Card.svelte";
  import DonationList from "$lib/ui/DonationList.svelte";
  import { onMount } from "svelte";
  import { get } from "svelte/store";

  subTitle.set("Donations to Date");
  let donations: Donation[] = [];
  onMount(async () => {
    donations = await donationService.getDonations(get(currentSession));
  });
</script>

<Card title="Donations">
  <DonationList {donations} />
</Card>
```

Browser Reload Button

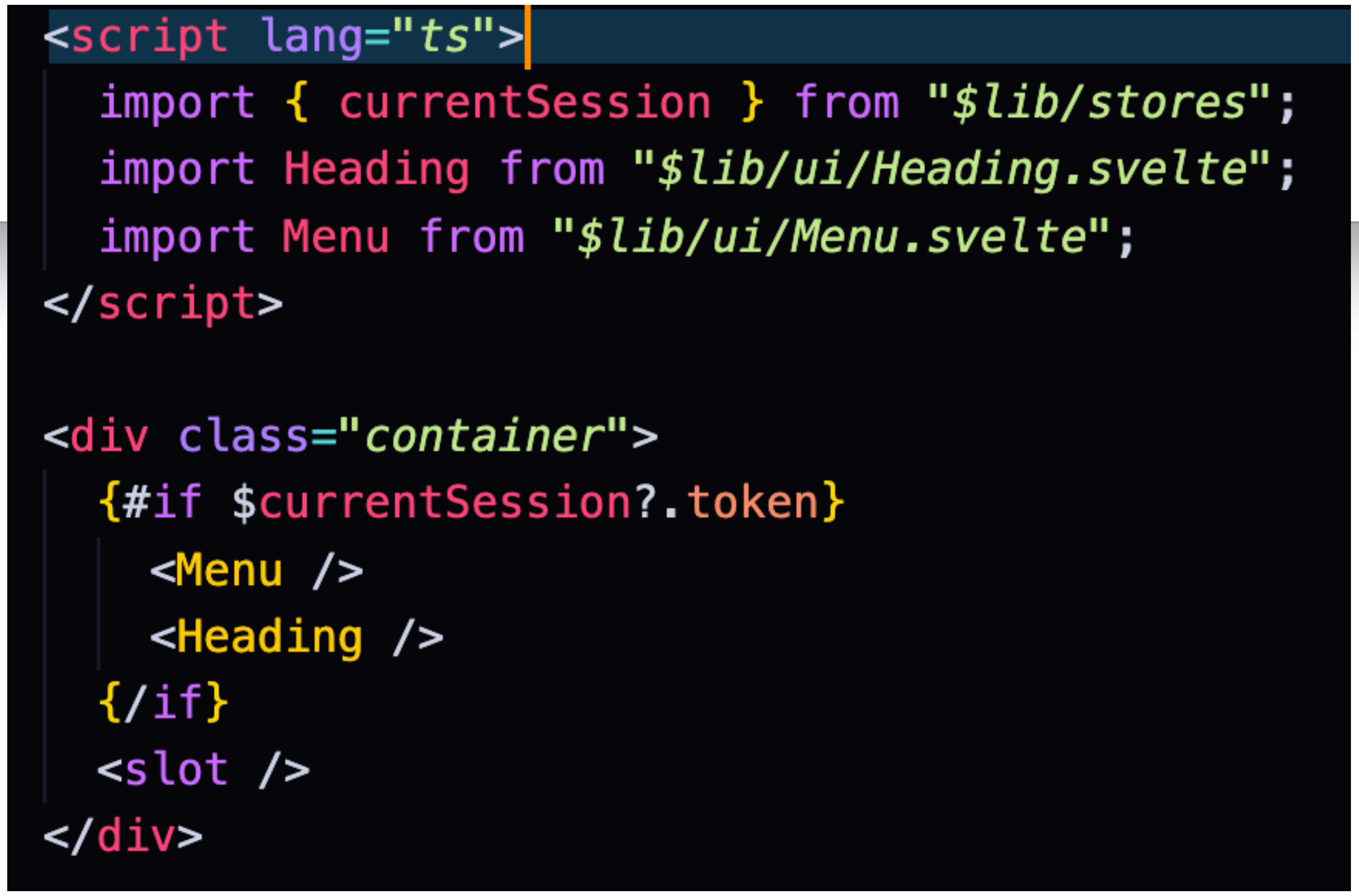
- If browser reload button pressed:
  - Menu + Header disappears
  - List of donations no longer displayed

- When browser reloads:
  - All stores reset
  - Session cleared - so layout will remove menu + Header

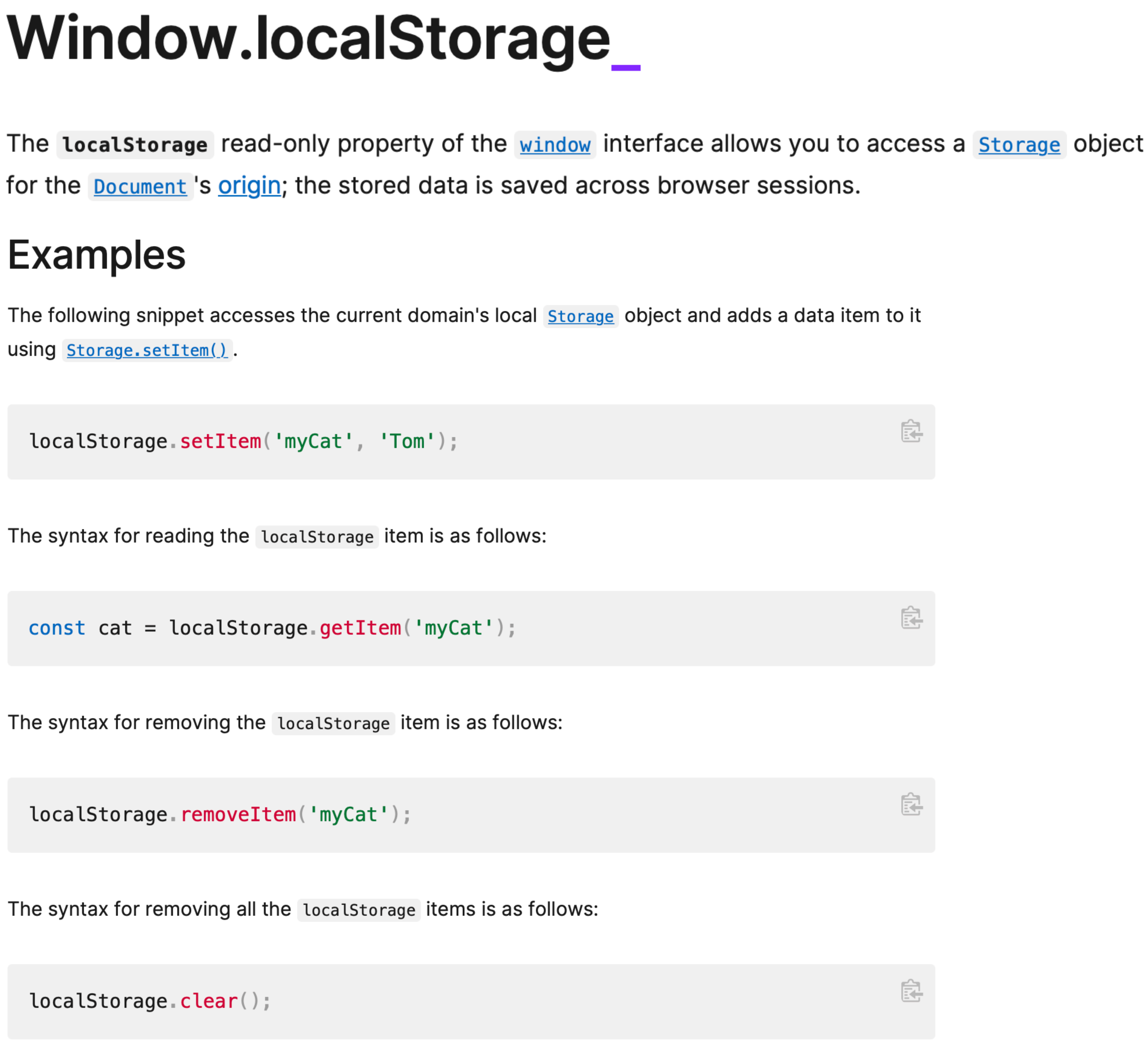


Donations

Amount	Method	Candidate	Donor



```
<script lang="ts">
  import { currentSession } from "$lib/stores";
  import Heading from "$lib/ui/Heading.svelte";
  import Menu from "$lib/ui/Menu.svelte";
</script>

<div class="container">
  {#if $currentSession?.token}
    <Menu />
    <Heading />
  {/if}
  <slot />
</div>
```



Window.localStorage

The `localStorage` read-only property of the `window` interface allows you to access a `Storage` object for the `Document`'s origin; the stored data is saved across browser sessions.

Examples

The following snippet accesses the current domain's local `Storage` object and adds a data item to it using `Storage.setItem()`.

```
localStorage.setItem('myCat', 'Tom');
```

The syntax for reading the `localStorage` item is as follows:

```
const cat = localStorage.getItem('myCat');
```

The syntax for removing the `localStorage` item is as follows:

```
localStorage.removeItem('myCat');
```

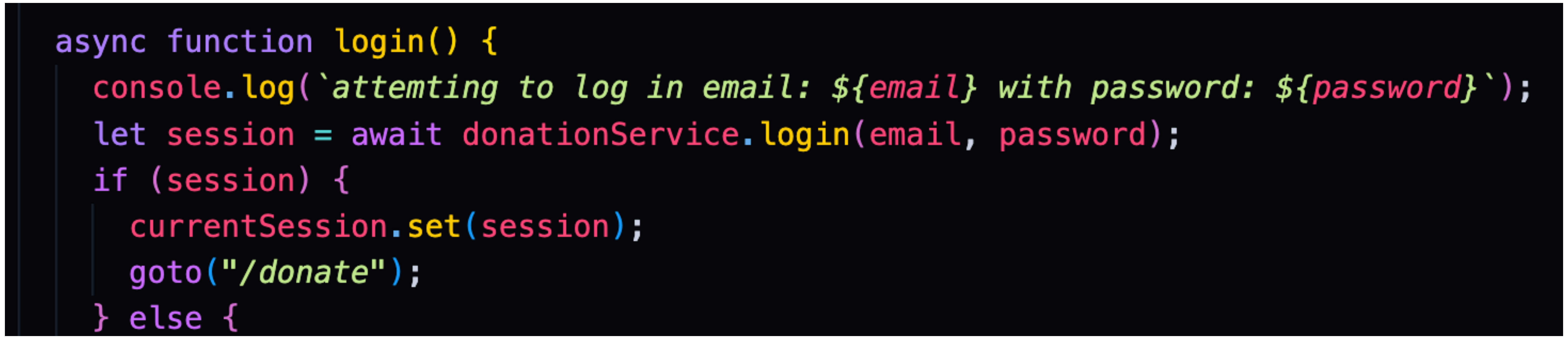
The syntax for removing all the `localStorage` items is as follows:

```
localStorage.clear();
```

https://developer.mozilla.org/en-US/docs/Web/API/Window/localStorage

Login

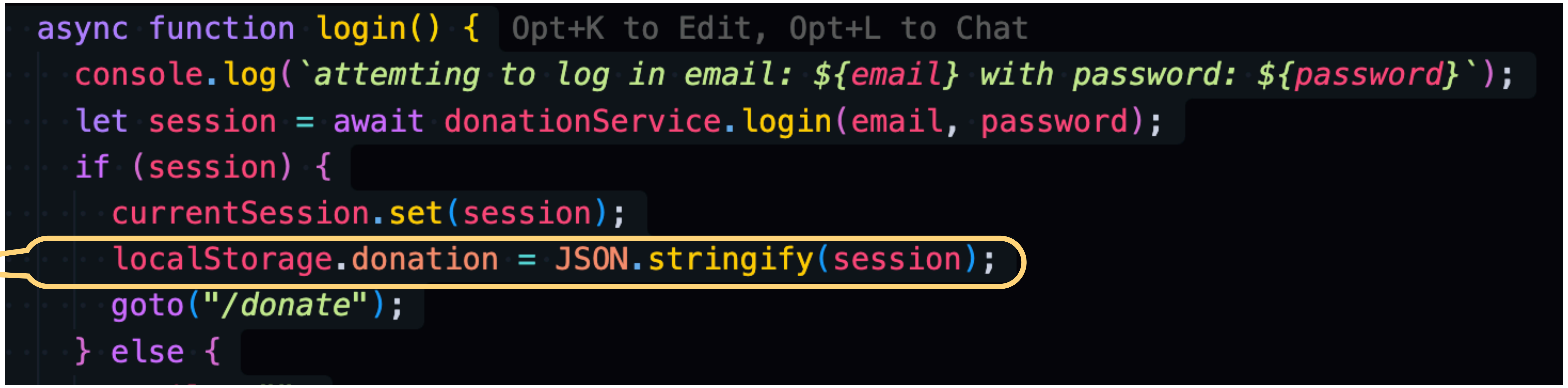
- On login, write user details to local storage



```
async function login() {
  console.log(`attemting to log in email: ${email} with password: ${password}`);
  let session = await donationService.login(email, password);
  if (session) {
    currentSession.set(session);
    goto("/donate");
  } else {
```

LoginForm.svelte

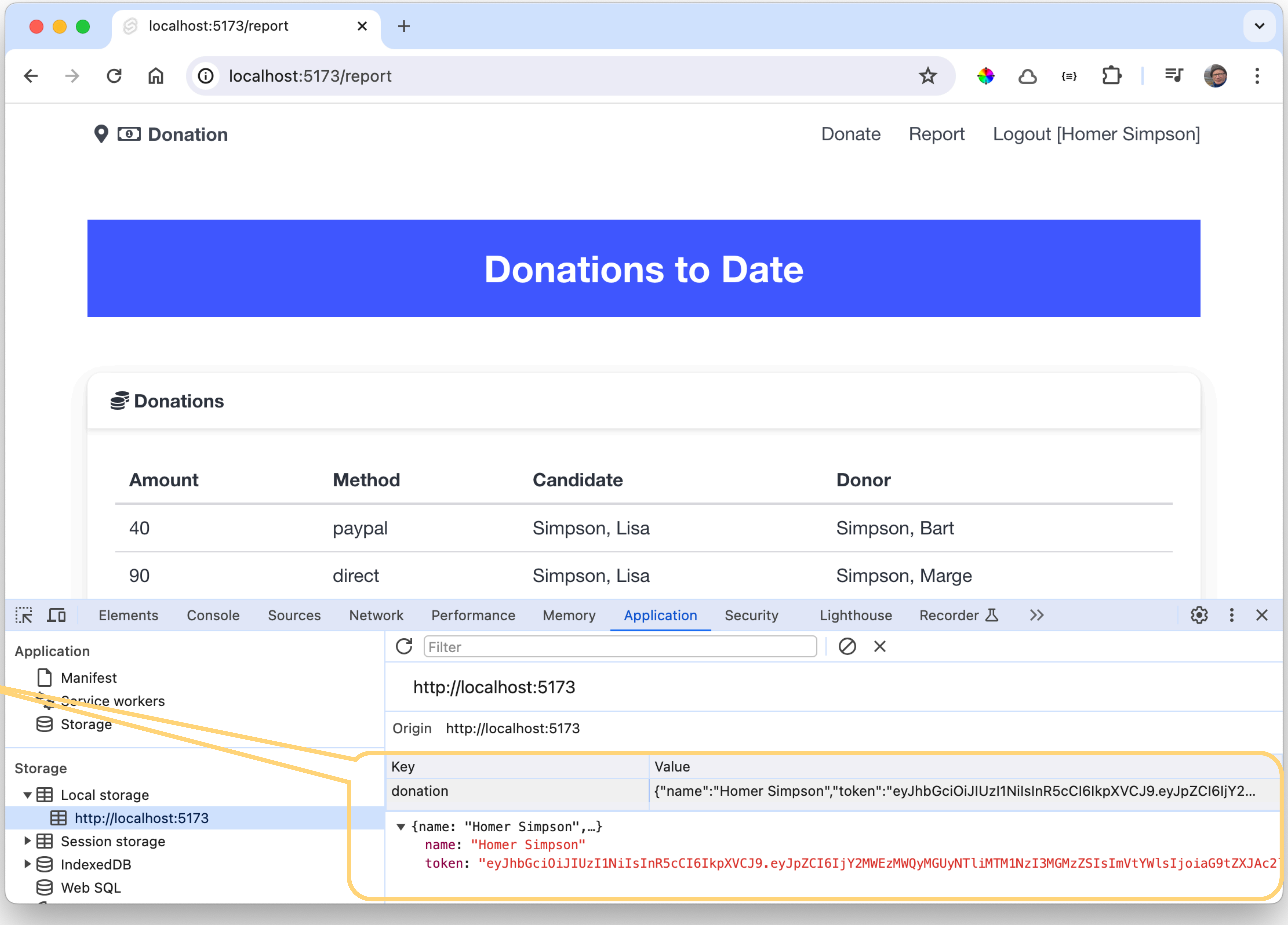
- This will persist in the browser until explicitly cleared



```
async function login() {  Opt+K to Edit, Opt+L to Chat
  console.log(`attemting to log in email: ${email} with password: ${password}`);
  let session = await donationService.login(email, password);
  if (session) {
    currentSession.set(session);
    localStorage.donation = JSON.stringify(session);
    goto("/donate");
  } else {
```

Login

- This will persist in the browser until explicitly cleared



Donations to Date

Donations

Amount	Method	Candidate	Donor
40	paypal	Simpson, Lisa	Simpson, Bart
90	direct	Simpson, Lisa	Simpson, Marge

http://localhost:5173

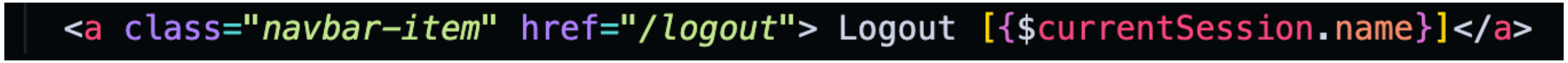
Origin http://localhost:5173

Key	Value
donation	{"name":"Homer Simpson","token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjY2...

```
▼ {name: "Homer Simpson",…}
    name: "Homer Simpson"
    token: "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjY2MWEzMWQyMGUyNTliMTM1NzI3MGMzZSIsImVtYWlsIjoiaG9tZXJAc2
```

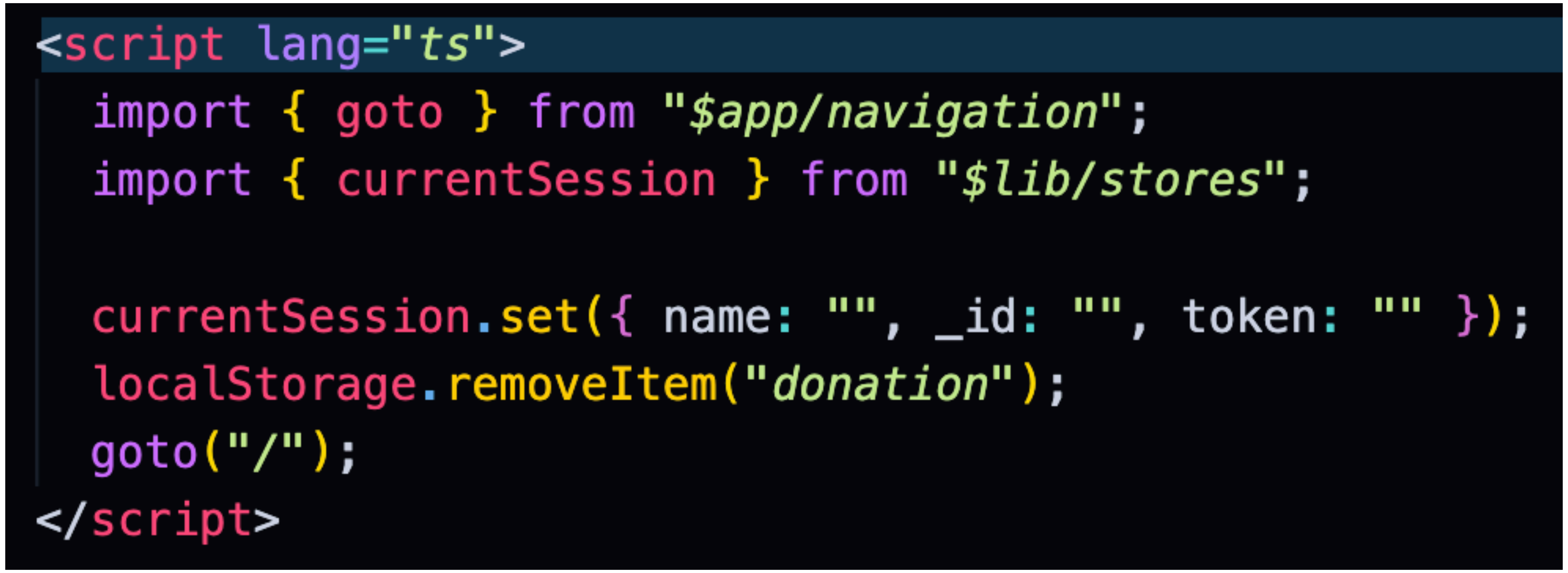
Logout

Donation
Donate
Report
Logout [Homer Simpson]



```
<a class="navbar-item" href="/logout"> Logout [{$currentSession.name}]</a>
```

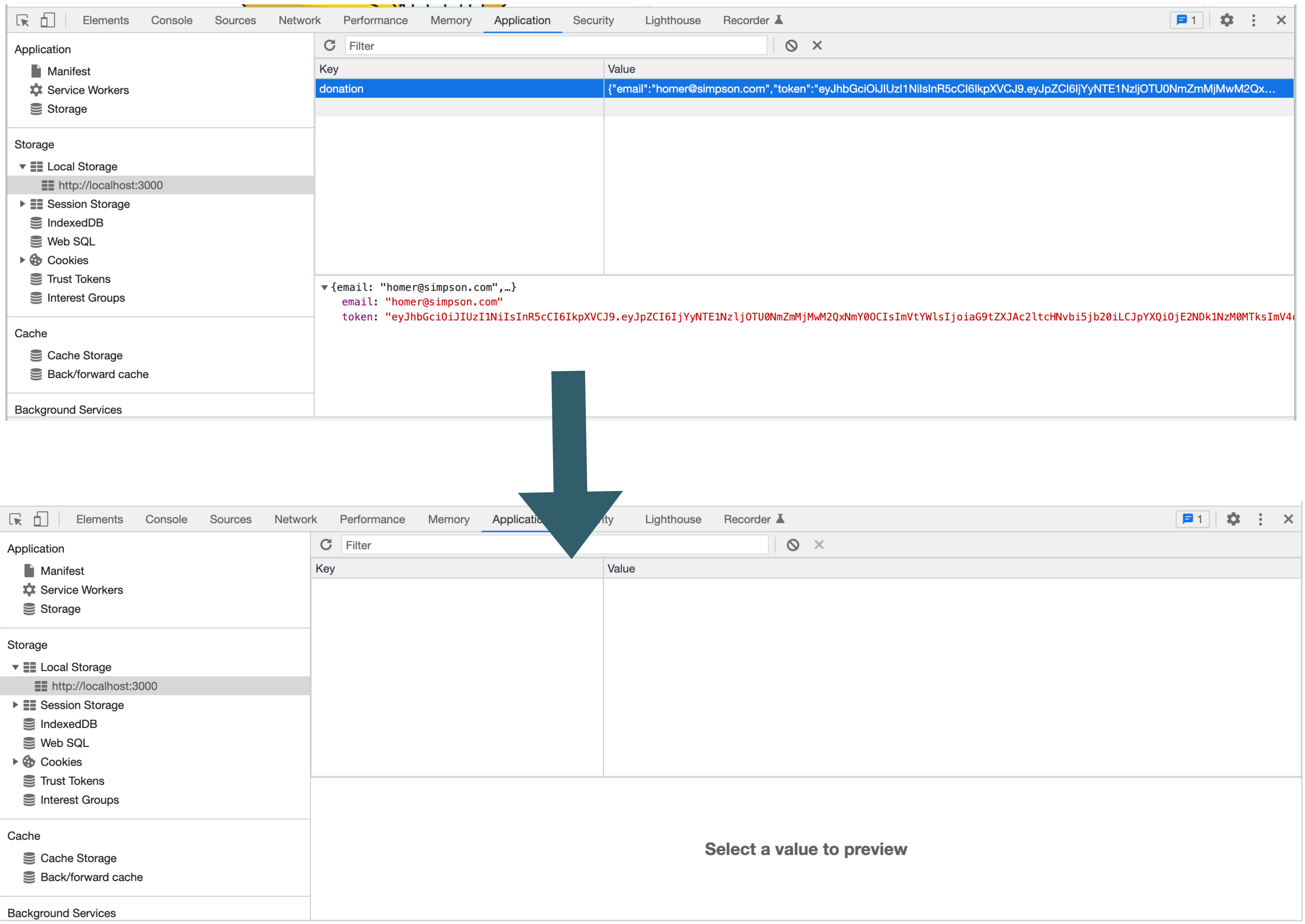
- Logout route:
  - Clears the curentSession store
  - removes the store contents from local storage
  - Navigate to the start page



```
<script lang="ts">
  import { goto } from "$app/navigation";
  import { currentSession } from "$lib/stores";

  currentSession.set({ name: "", _id: "", token: "" });
  localStorage.removeItem("donation");
  goto("/");
</script>
```

Logout

- When Logout button pressed, local storage will be cleared.



Key	Value
donation	{"email":"homer@simpson.com","token":"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjYyNTE1NzljOTU0NmZmMjMwM2Qx...

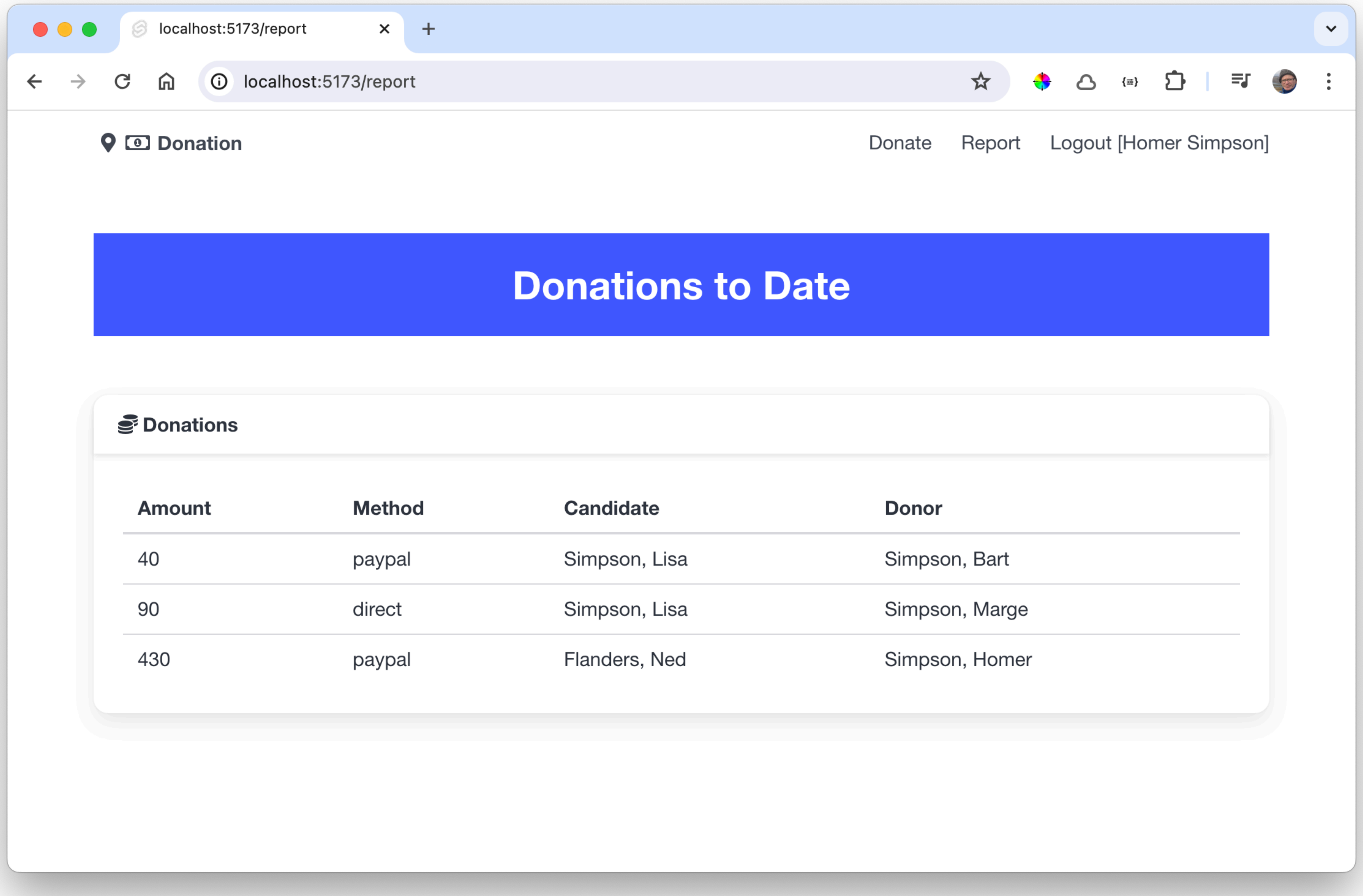
```
▼{email: "homer@simpson.com",…}
   email: "homer@simpson.com"
   token: "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjYyNTE1NzljOTU0NmZmMjMwM2QxNmY0OCIsImVtYWlsIjoiaG9tZXJAc2ltcHNvbi5jb20iLCJpYXQiOjE2NDk1NzM0MTksImV4
```

Key	Value

Select a value to preview

Browser Reload Button

- There should be no change in application status



Donations to Date

Donations

Amount	Method	Candidate	Donor
40	paypal	Simpson, Lisa	Simpson, Bart
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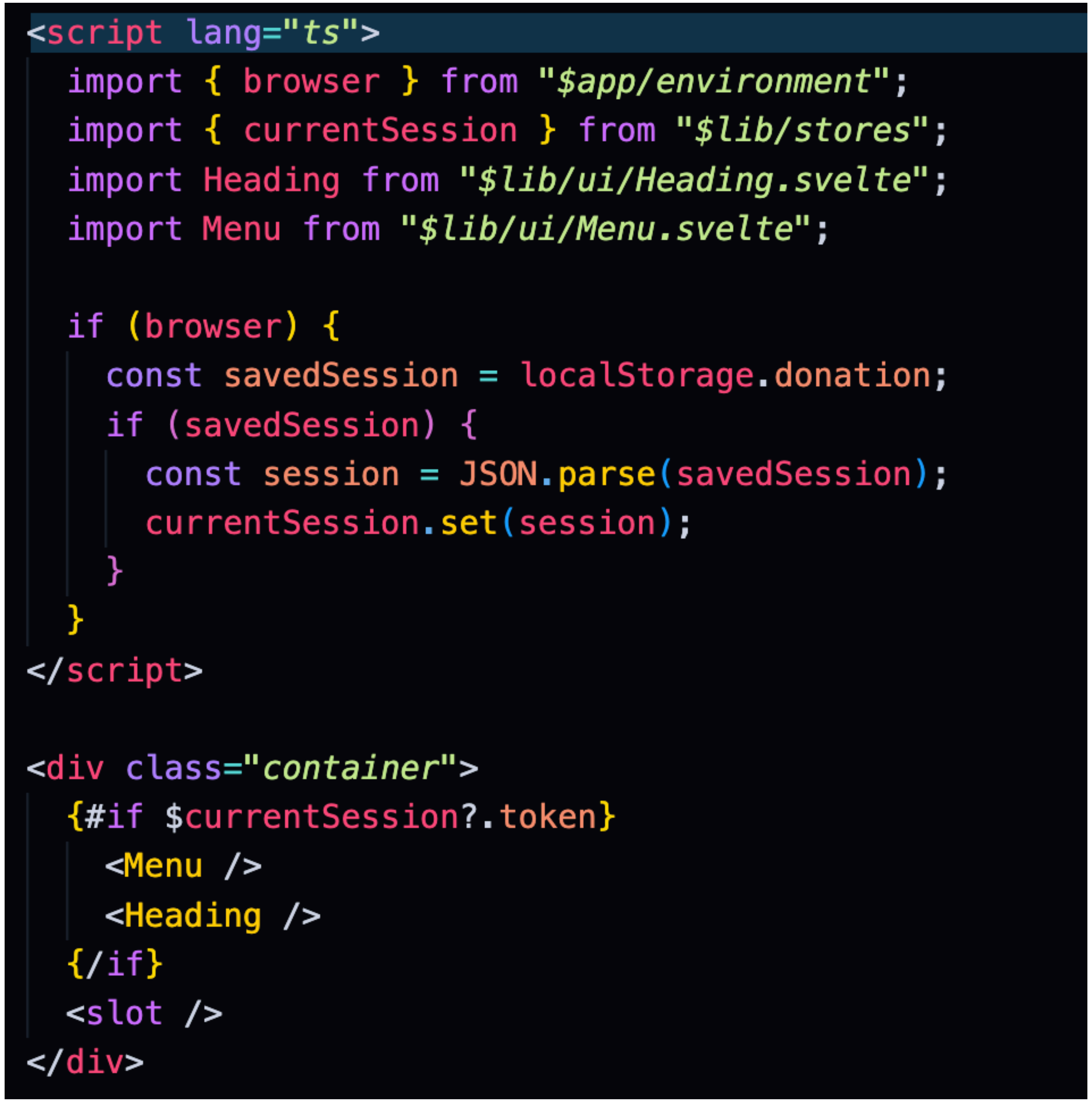
430	paypal	Flanders, Ned	Simpson, Homer

+layout.svelte

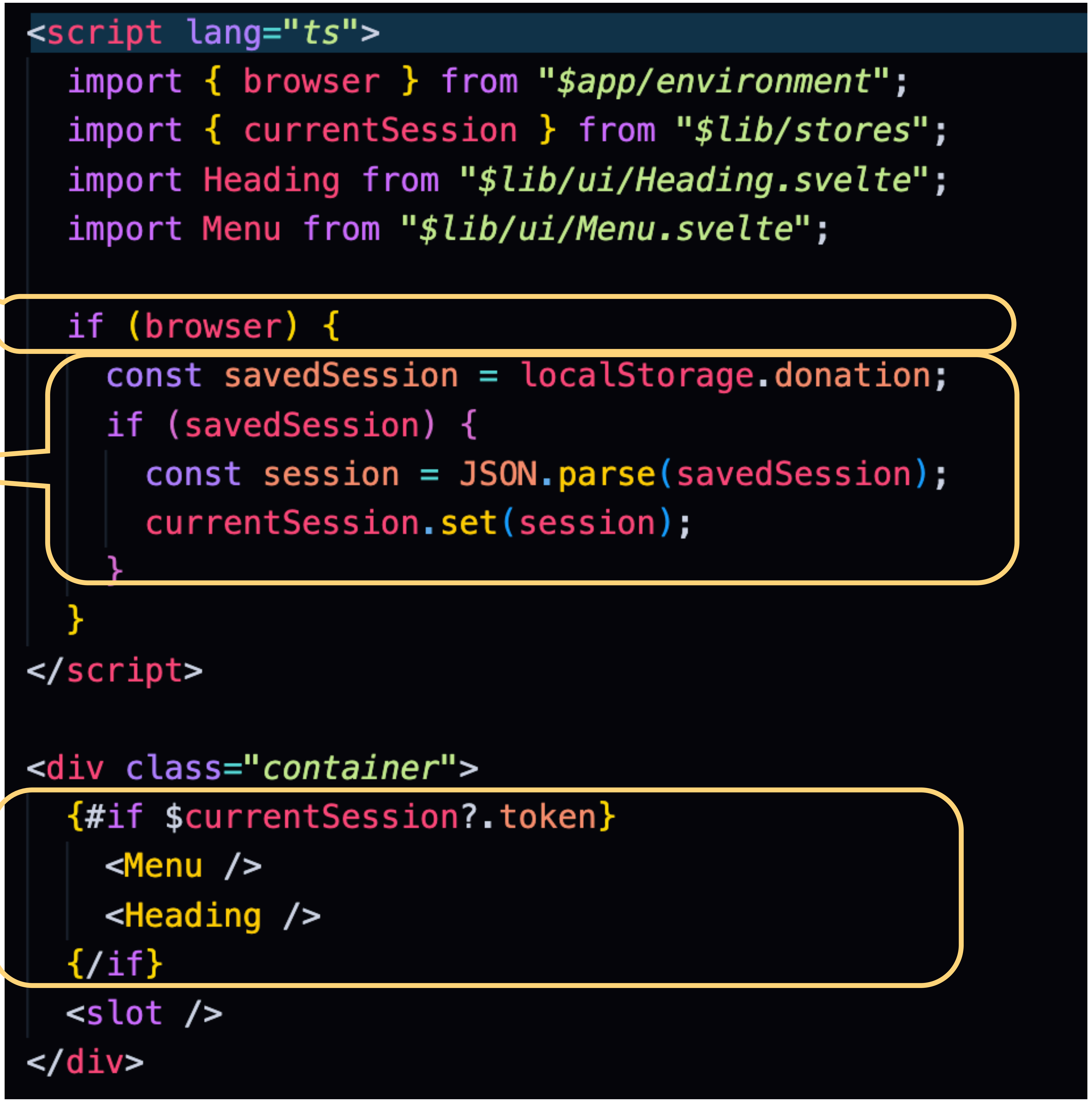


```
<script lang="ts">
  import { browser } from "$app/environment";
  import { currentSession } from "$lib/stores";
  import Heading from "$lib/ui/Heading.svelte";
  import Menu from "$lib/ui/Menu.svelte";

  if (browser) {
    const savedSession = localStorage.donation;
    if (savedSession) {
      const session = JSON.parse(savedSession);
      currentSession.set(session);
    }
  }
</script>

<div class="container">
  {#if $currentSession?.token}
    <Menu />
    <Heading />
  {/if}
  <slot />
</div>
```

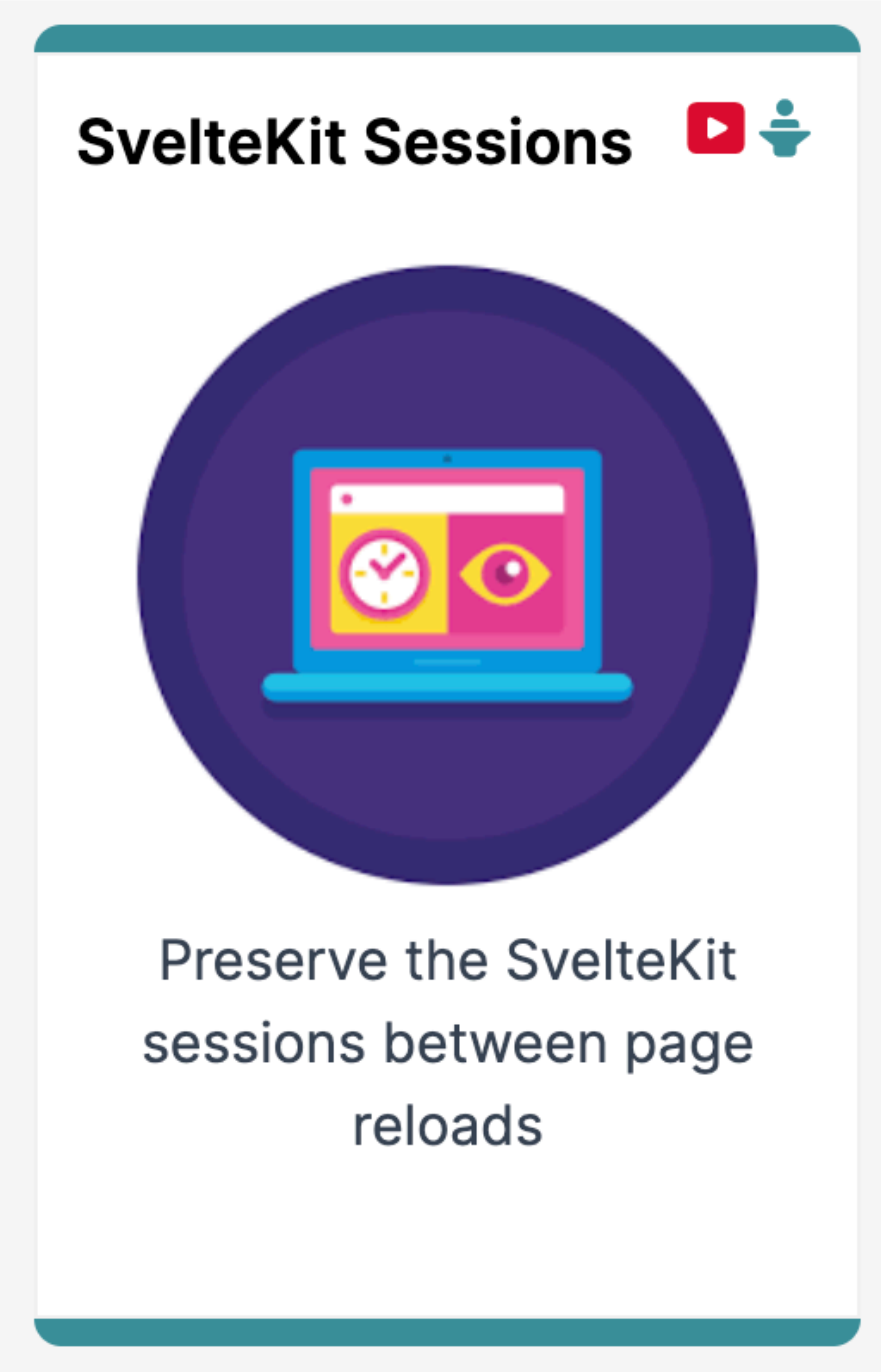
Browser Reload Button

- Are we running in the client?
- If there is a session in localStorage
  - Recover the session
  - Set the currentSession store
- currentSession values will ensure Menu + Heading will be displayed
-

+layout.svelte



```
<script lang="ts">
  import { browser } from "$app/environment";
  import { currentSession } from "$lib/stores";
  import Heading from "$lib/ui/Heading.svelte";
  import Menu from "$lib/ui/Menu.svelte";

  if (browser) {
    const savedSession = localStorage.donation;
    if (savedSession) {
      const session = JSON.parse(savedSession);
      currentSession.set(session);
    }
  }
</script>

<div class="container">
  {#if $currentSession?.token}
    <Menu />
    <Heading />
  {/if}
  <slot />
</div>
```



SvelteKit Sessions

Preserve the SvelteKit sessions between page reloads