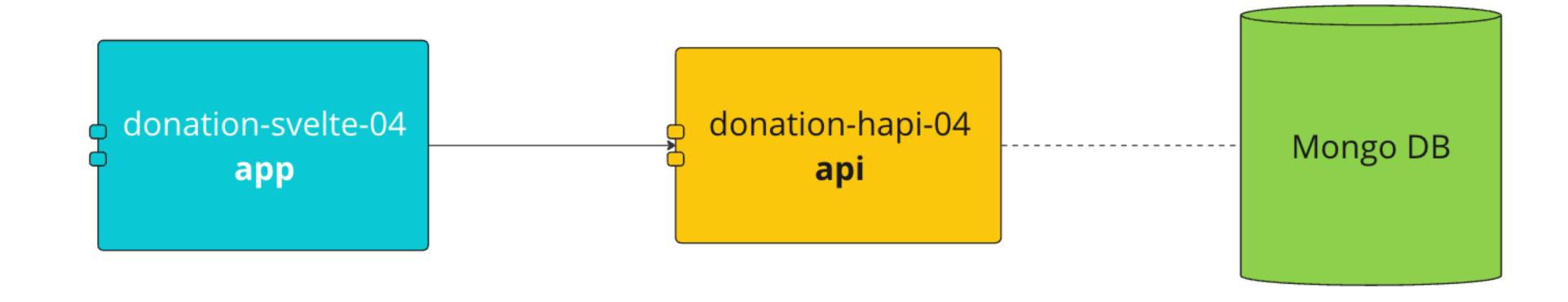
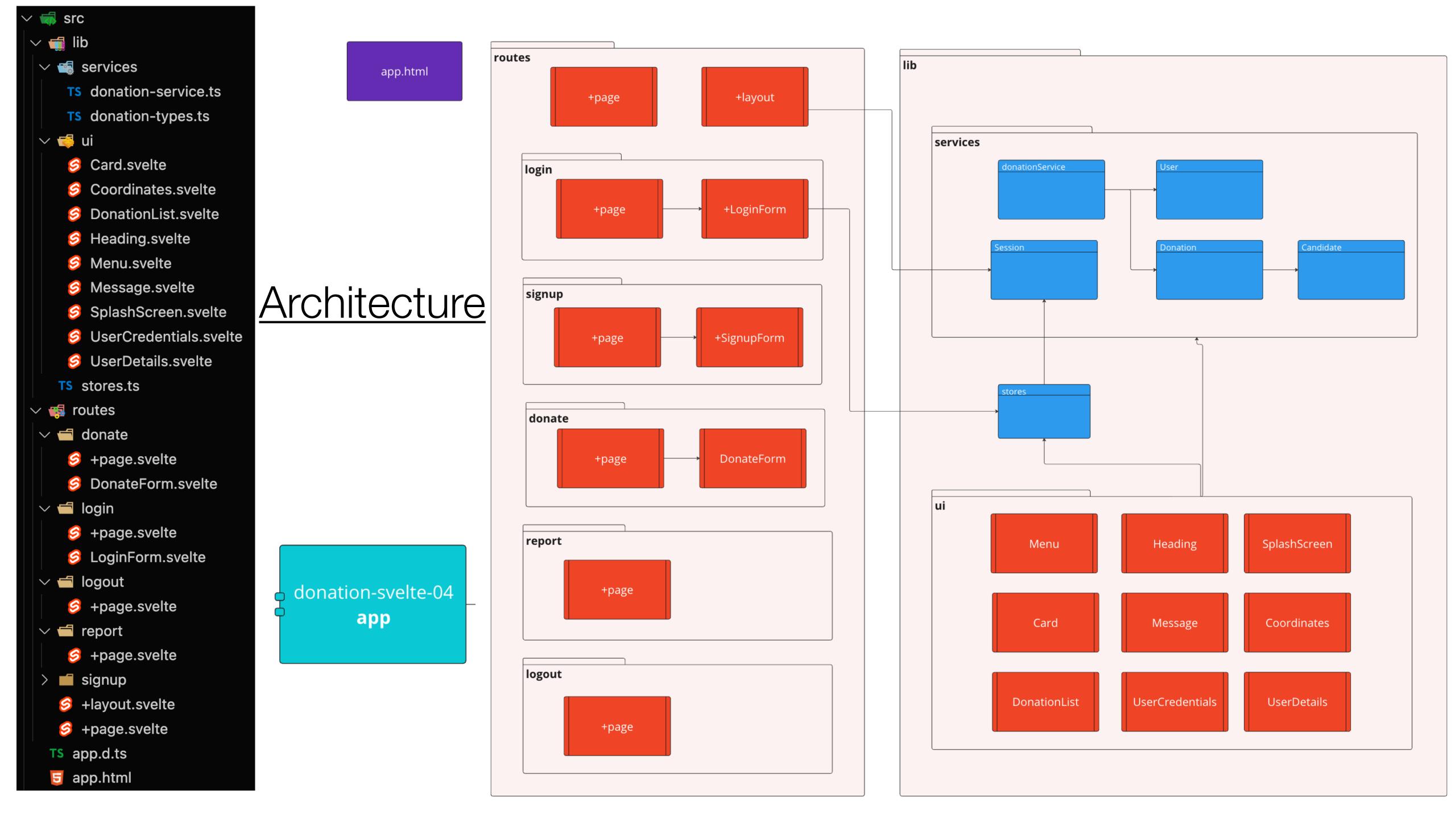


Svelte Authentication



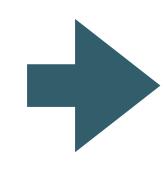
- Attach to the Donation-svelte API
- Signup / Login using Users API



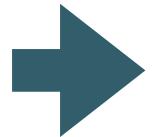
✓ ■ services TS donation-service.ts TS donation-types.ts > 蓐 ui TS stores.ts > donate > 🔳 login > **i** logout > report > **signup** +layout.svelte +page.svelte TS app.d.ts app.html

Donation-types

Session: logged in user name, id + JWT token



User: user details



```
export interface Session {
  name: string;
  _id: string;
  token: string;
export interface User {
  firstName: string;
  lastName: string;
  email: string;
  password: string;
  _id: string;
```

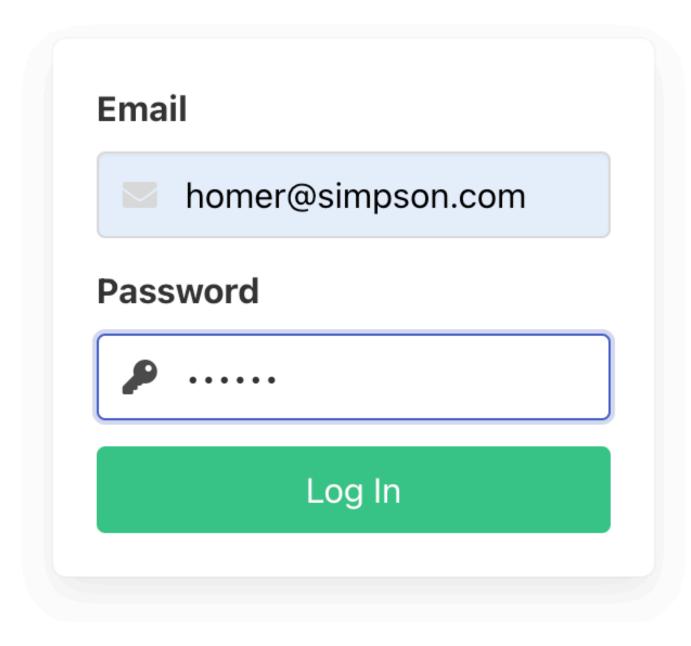
donationService

- Encapsulate
- baseUrl defines url of remote donation service
- login: invoke authenticate endpoint, return session object if successful
- signup: invoke signup up API.

```
import axios from "axios";
import type { Session, User } from "./donation-types";
export const donationService = {
 baseUrl: "http://localhost:4000",
 async signup(user: User): Promise<boolean> {
   try {
     const response = await axios.post(`${this.baseUrl}/api/users`, user);
     return response.data.success === true;
    } catch (error) {
     console.log(error);
     return false;
 async login(email: string, password: string): Promise<Session | null> {
   try {
     const response = await axios.post(`${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;
     return null;
     catch (error) {
     console.log(error);
     return null;
```

<u>Login</u>

Login to DONATION

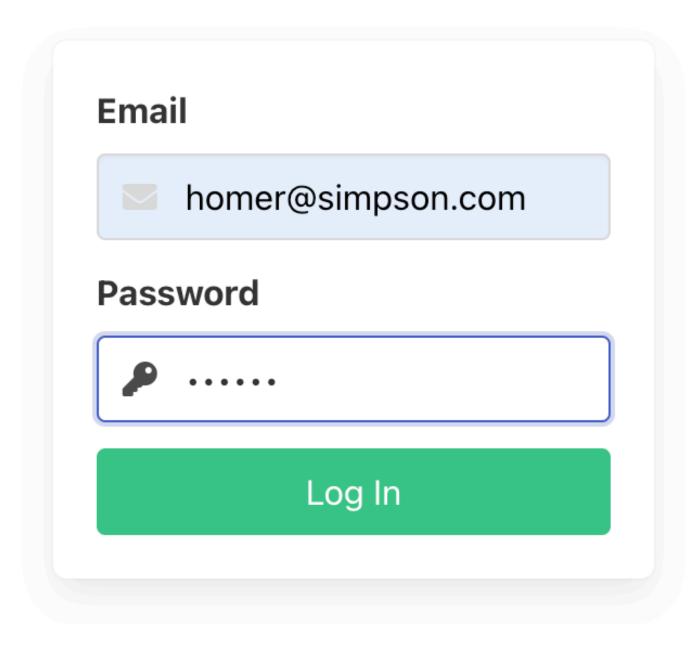


```
<script lang="ts">
  import { goto } from "$app/navigation";
  import { currentSession } from "$lib/stores";
  import Message from "$lib/ui/Message.svelte";
  import UserCredentials from "$lib/ui/UserCredentials.svelte";
  let email = "";
  let password = "";
  let message = "";
 async function login() {
    const success = true;
   if (success) {
      currentSession.set(email);
     goto("/donate");
    } else {
      email = "";
      password = "";
     message = "Invalid Credentials";
</script>
```

 Current version "goto" donate route when login button pressed

<u>Login</u>

Login to DONATION



```
import { goto } from "$app/navigation";
import { donationService } from "$lib/services/donation-service";
import { currentSession } from "$lib/stores";
import Message from "$lib/ui/Message.svelte";
import UserCredentials from "$lib/ui/UserCredentials.svelte";
let email = "";
let password = "";
let message = "";
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 {
   email = "";
    password = "";
   message = "Invalid Credentials";
```

Revised version to authenticate using Donation-hapi API

Login

Import a references to the donationService object.

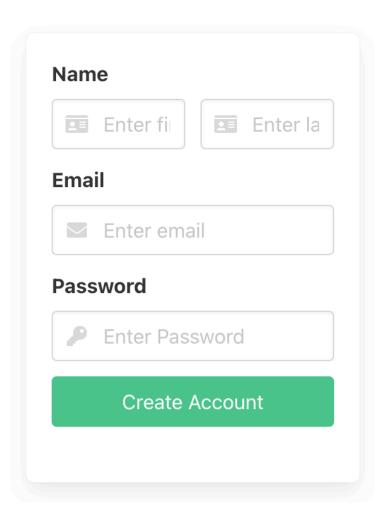
When login pressed, attempt login

If successful doing, display **Donate** page

Otherwise, reset email/password to bank + display error message

```
import { goto } from "$app/navigation";
import { donationService } from "$lib/services/donation-service";
import { currentSession } from "$lib/stores";
import Message from "$lib/ui/Message.svelte";
import UserCredentials from "$lib/ui/UserCredentials.svelte";
let email = "";
let password = "";
let message = "";
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
    email = "";
    password = "";
   message = "Invalid Credentials";
```

Signup for DONATION



Import a reference to the donationService object.

Signup up new user

If successful doing, display **Main** page

Signup

```
import { goto } from "$app/navigation";
import UserCredentials from "$lib/ui/UserCredentials.svelte";
import UserDetails from "$lib/ui/UserDetails.svelte";
import Message from "$lib/ui/Message.svelte";
import type { User } from "$lib/services/donation-types":
import { donationService } from "$lib/services/donation-service";
let firstName = "";
let lastName = "";
let email = "";
let password = "";
let message = "";
async function signup() {
  const user: User = {
   firstName: firstName,
   lastName: lastName,
   email: email,
   password: password
  let success = await donationService.signup(user);
  if (success) {
   goto("/login");
 } else {
   message = "Error Trying to sign up";
```

Logged in User Indicator

• When user logged in... ... display user name in Menu bar

<u>Stores</u>

Import *writeable*, create, initialise and export a **store** - from a .js file (not .svelte)

→ **Stores:** A feature to allow unrelated components to talk to each other

```
import { writable } from 'svelte/store'
export const username = writable('Guest')
```

In any component, import the store

Update store (write)

Be notified if any other component has updated the store (read)

```
<script>
import { username } from './store.js'
</script>
```

username.set('new username')

```
username.subscribe(newValue => {
   console.log(newValue)
})
```

Logged in User Indicator

Onate Report Logout [Homer Simpson]

When user logged in...

```
export interface Session {
  name: string;
  _id: string;
  token: string;
}
```

```
import { writable } from "svelte/store";
import type { Donation, Session } from "$lib/types/donation-types";
export const currentSession = writable<Session>();
```

- donationService create the session object
- LoginForm writes the session to the store

... display user name in Menu bar

```
<script lang="ts">
  import { currentSession } from "$lib/stores";
</script>
<nav class="navbar is-full-width">
  <div class="container">
    <div class="navbar-brand">
      <a class="navbar-item" href="/dashboard">
        <span class="icon"> <i class="fas fa-map-marker-alt"></i></span>
                                                                           pan class="icon m
      </a>
    </div>
    <div id="navbarMenu" class="navbar-menu">
      <div class="navbar-end">
        <a class="navbar-item" href="/donate"> Donate </a>
        <a class="navbar-item" href="/report"> Report </a>
        <a class="navbar-item" href="/logout"> Logout [{$currentSession.name}]</a>
      </div>
      <div></div>
    </div>
  </div>
</nav>
```

Logged in User Indicator

Onation Donation Donate Report Logout [Homer Simpson]

When user logged in...

```
export interface Session {
  name: string;
  _id: string;
  token: string;
}
```

```
import { writable } from "svelte/store";
import type { Donation, Session } from "$lib/types/donation-types";
export const currentSession = writable<Session>();
```

- donationService create the session object
- LoginForm writes the session to the store

... display user name in Menu bar

```
import { goto } from "$app/navigation";
import { donationService } from "$lib/services/donation-service";
import { currentSession } from "$lib/stores";
import Message from "$lib/ui/Message.svelte";
import UserCredentials from "$lib/ui/UserCredentials.svelte";
let email = "";
let password = "";
let message = "";
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 {
    email = "";
   password = "";
   message = "Invalid Credentials";
```

