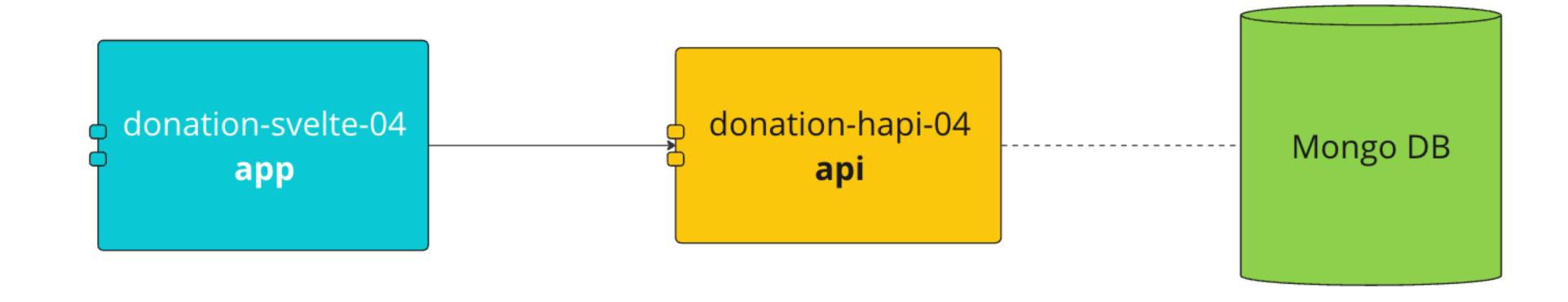
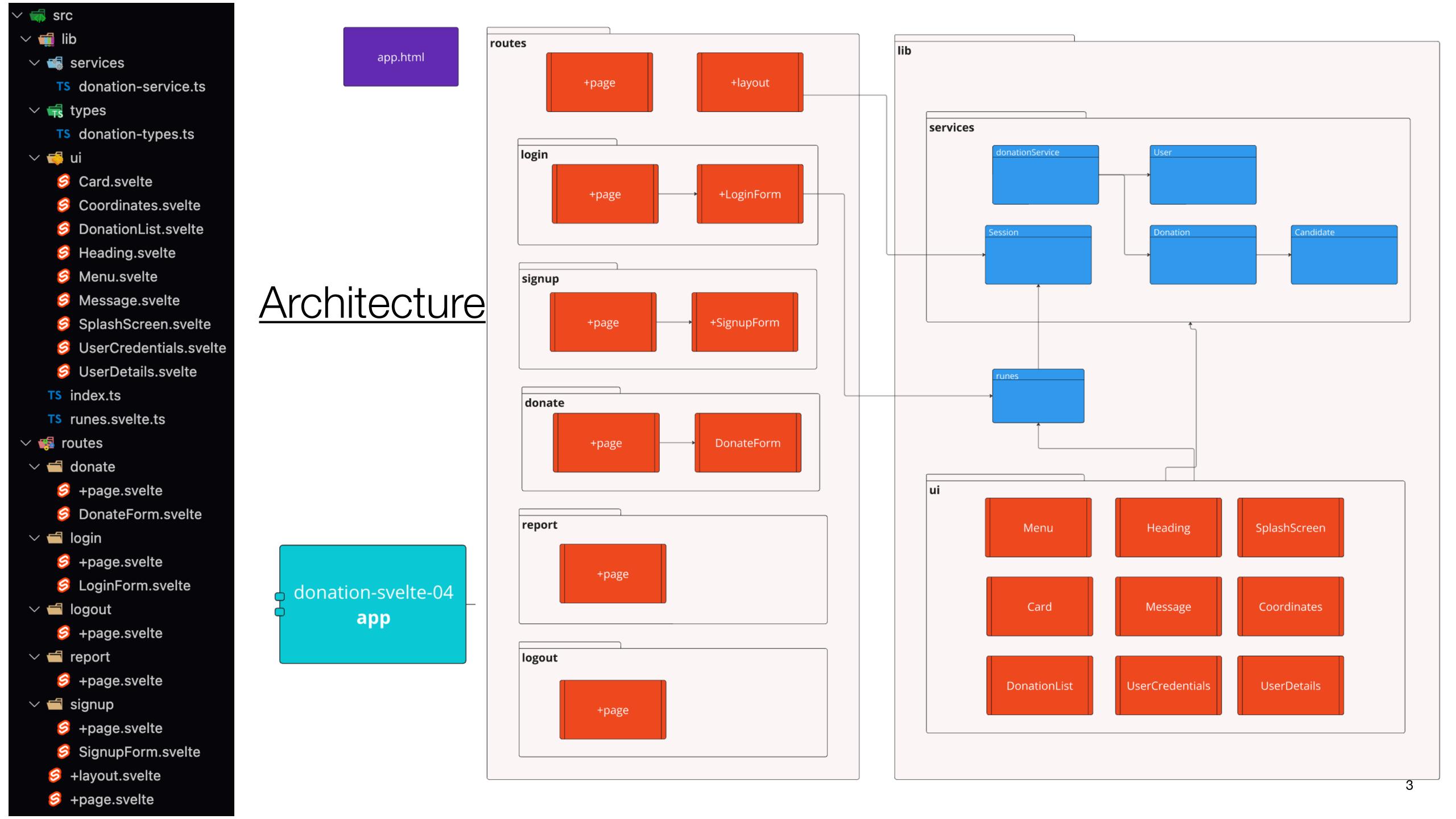


Svelte Authentication



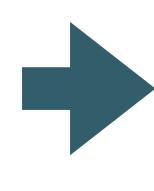
- Attach to the Donation-svelte API
- Signup / Login using Users API



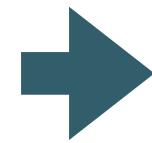
src V 📹 lib ✓ ■ services TS donation-service.ts ✓ types TS donation-types.ts > 👼 ui TS index.ts TS runes.svelte.ts > donate > 📹 login > **i** logout > **report** > **i** signup +layout.svelte +page.svelte TS app.d.ts app.html

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;
```

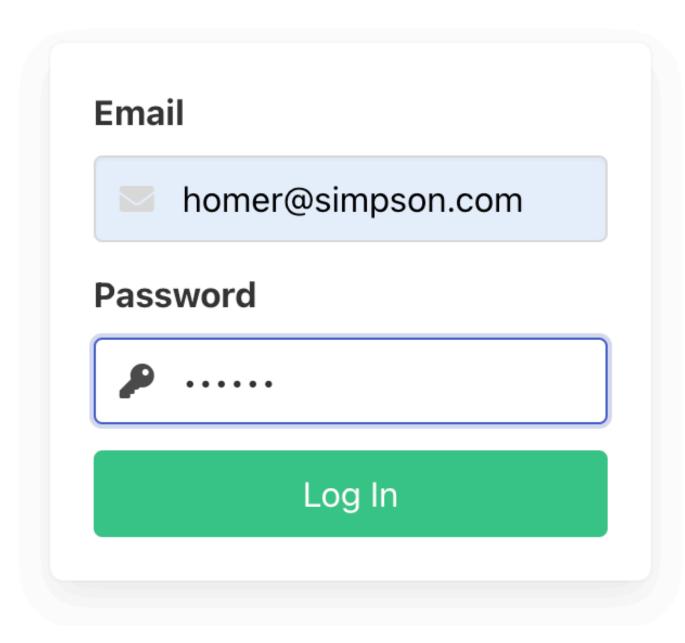
donationService

- 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>

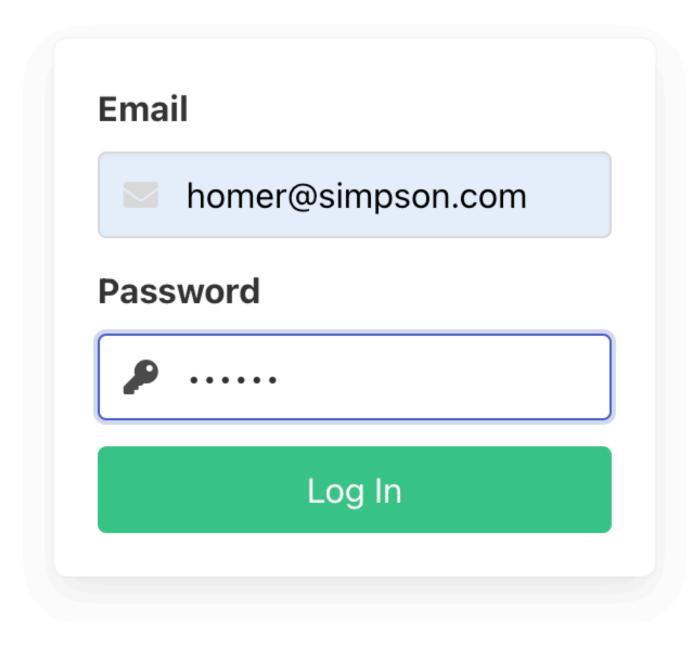
Login to DONATION



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

Current version "goto" donate route when login button pressed

Login to **DONATION**



```
<script lang="ts">
  import { goto } from "$app/navigation";
  import { loggedInUser } from "$lib/runes.svelte";
  import { donationService } from "$lib/services/donation-service";
  import Message from "$lib/ui/Message.svelte";
  import UserCredentials from "$lib/ui/UserCredentials.svelte";
  let email = $state("");
  let password = $state("");
  let message = $state("");
  async function login() {
    console.log(`attempting to log in email: ${email} with password: ${password}`);
    let session = await donationService.login(email, password);
    if (session) {
      loggedInUser.email = email;
      loggedInUser.name = session.name;
      loggedInUser.token = session.token;
      loggedInUser._id = session._id;
      console.log(`Session: ${JSON.stringify(session)}`);
      goto("/donate");
    } else {
      email = "";
      password = "";
      message = "Invalid Credentials";
</script>
```

Revised version to authenticate using Donation-hapi API

Import a references to the donationService object.

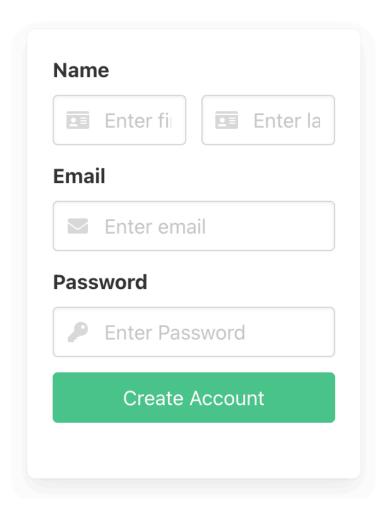
When login pressed, attempt login

If successful doing, display **Donate** page

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

```
<script lang="ts">
  import { goto } from "$app/navigation";
  import { loggedInUser } from "$lib/runes.svelte";
  import { donationService } from "$lib/services/donation-service";
  import Message from "$lib/ui/Message.svelte";
  import UserCredentials from "$lib/ui/UserCredentials.svelte";
  let email = $state("");
  let password = $state("");
  let message = $state("");
  async function login() {
    console.log(`attempting to log in email: ${email} with password: ${password}`);
    let session = await donationService.login(email, password);
    if (session) {
      loggedInUser.email = email;
      loggedInUser.name = session.name;
      loggedInUser.token = session.token;
      loggedInUser._id = session._id;
      console.log(`Session: ${JSON.stringify(session)}`);
      goto("/donate");
     else {
      email = "";
      password = "";
      message = "Invalid Credentials";
</script>
```

Signup for DONATION



Import a reference to the donationService object.

Signup up new user

If successful doing, display **Main** page

Signup

```
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

Logged in User Indicator

Onation Donation Donate Report Logout [Homer Simpson]

When user logged in...

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

```
export const loggedInUser = $state({
    email: "",
    name: "",
    token: "",
    _id: ""
});
```

- donationService creates the session object
- LoginForm writes the session info to the rune

... display user name in Menu bar

```
<script lang="ts">
 import { loggedInUser } from "$lib/runes.svelte";
</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</pre>
                                                                           pan class="icon mr-1">
          <i class="far fa-money-bill-alt"></i></span</pre>
       ><span><strong>Donation</strong> </span>
      </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 [{loggedInUser.name}]</a>
      </div>
      <div></div>
    </div>
  </div>
</nav>
```

Logged in User Indicator

O Donation

Donate Report Logout [Homer Simpson]

When user logged in...

```
export const loggedInUser = $state({
    email: "",
    name: "",
    token: "",
    _id: ""
});
```

- donationService create the session object
- LoginForm writes session information to the rune

... display user name in Menu bar

```
<script lang="ts">
 import { goto } from "$app/navigation";
 import { loggedInUser } from "$lib/runes.svelte";
  import { donationService } from "$lib/services/donation-service";
  import Message from "$lib/ui/Message.svelte";
  import UserCredentials from "$lib/ui/UserCredentials.svelte";
  let email = $state("");
  let password = $state("");
  let message = $state("");
  async function login() {
   console.log(`attempting to log in email: ${email} with password: ${password}`);
   let session = await donationService.login(email, password);
    if (session) {
      loggedInUser.email = email;
     loggedInUser.name = session.name;
     loggedInUser.token = session.token;
     loggedInUser._id = session._id;
     console.log(`Session: ${JSON.stringify(session)}`);
      goto("/donate");
    } else {
     email = "";
     password = "";
     message = "Invalid Credentials";
</script>
<div class="box">
 {#if message}
   <Message {message} />
  {/if}
 <UserCredentials bind:email bind:password />
 <button onclick={() => login()} class="button">Log In</button>
```

