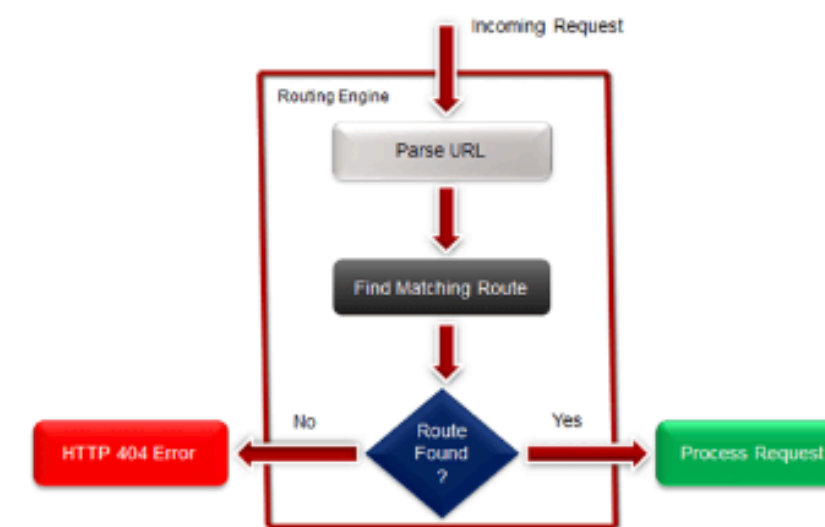


Routing



HOW ROUTING WORKS



How Routing works in
SvelteKit

Hapi Node App



SvelteKit Web Application



Hapi Node App

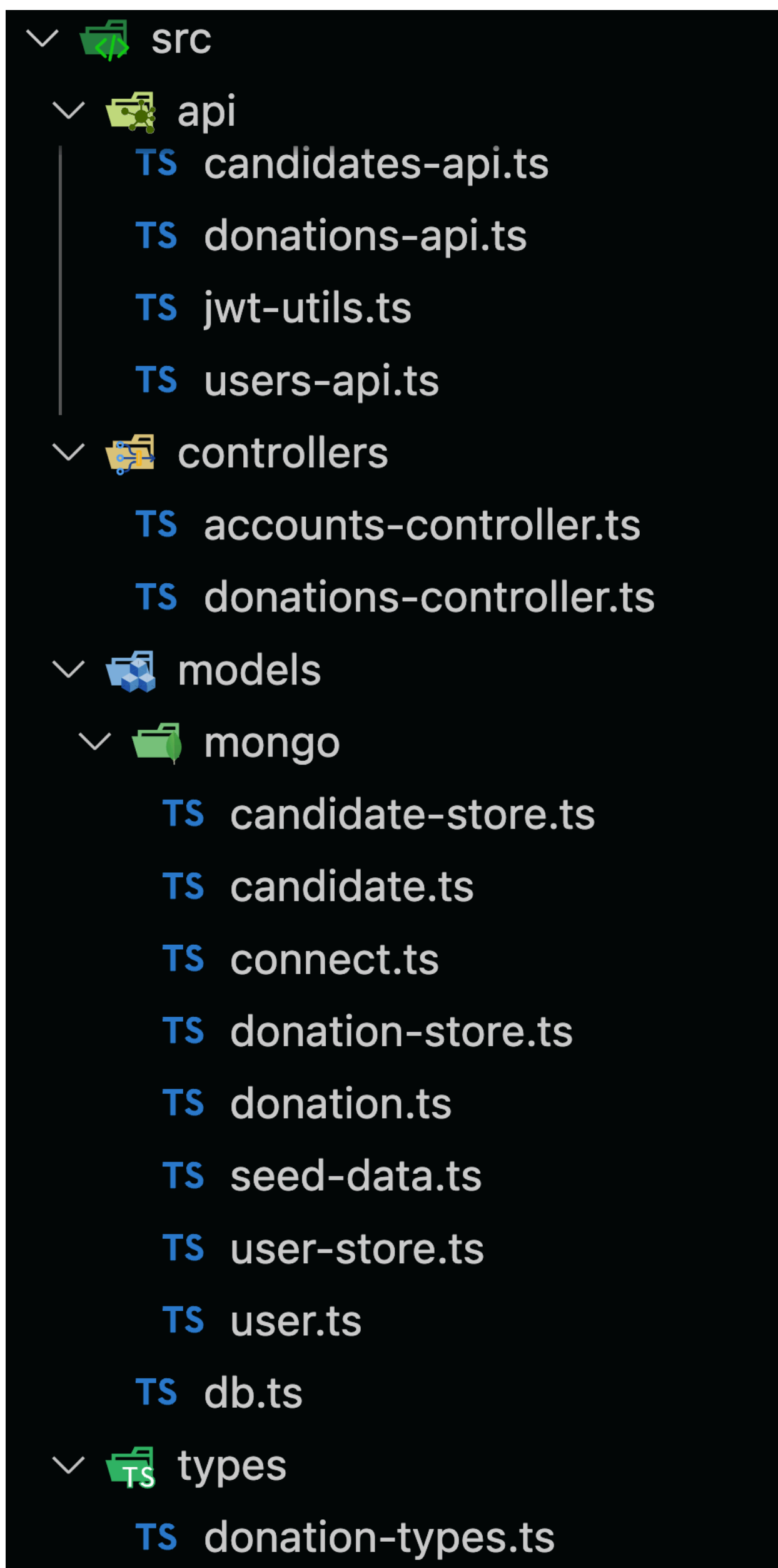


```
✓ src
  > api
  > controllers
  > models
  > types
  > views
    TS api-routes.ts
    TS server.ts
    TS web-routes.ts
```

- Server Rendered Application
- Node.js with Hapi Framework
- Hapi Plugins
- Npm Modules



Hapi Node App



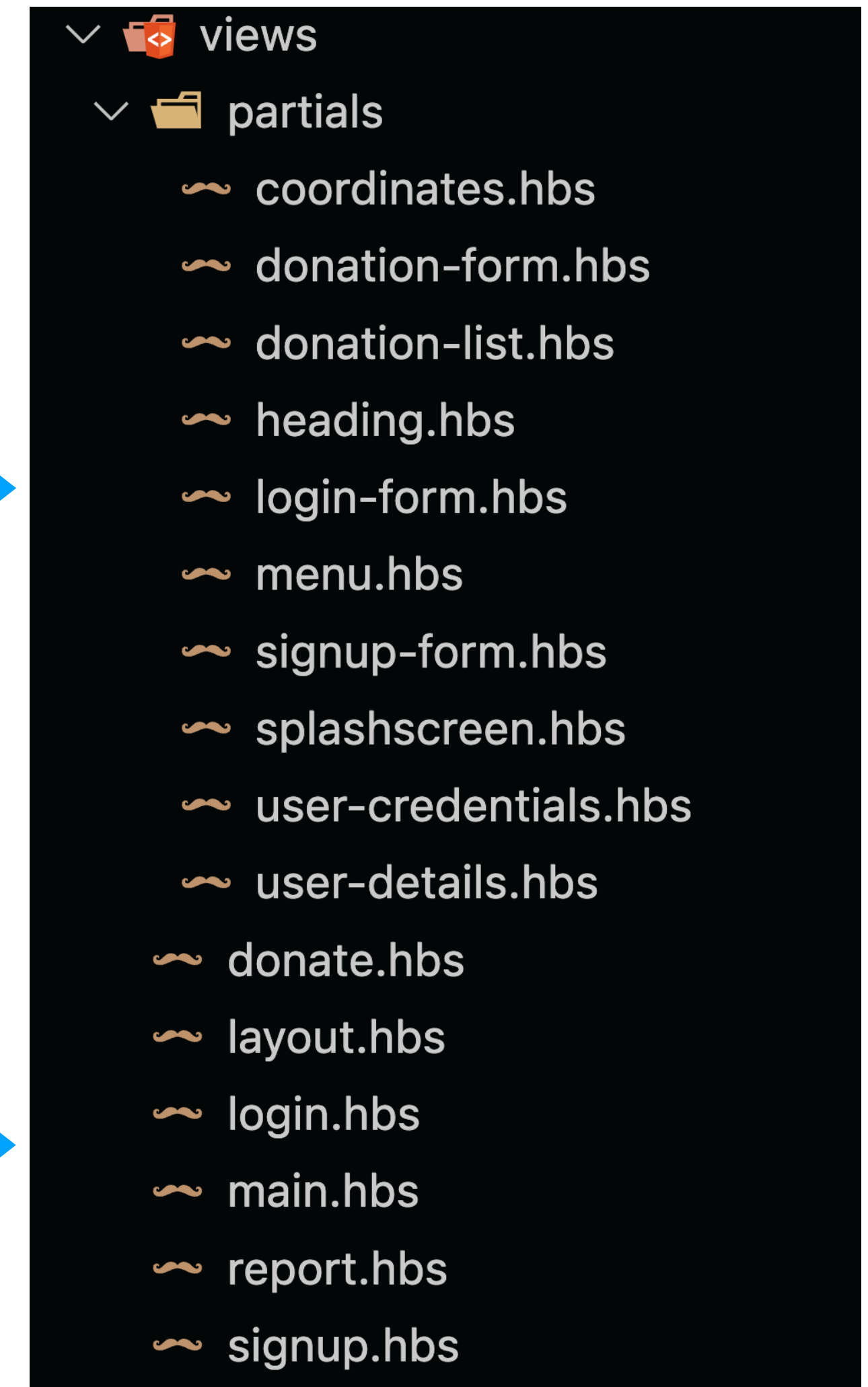
← Controllers

← Models

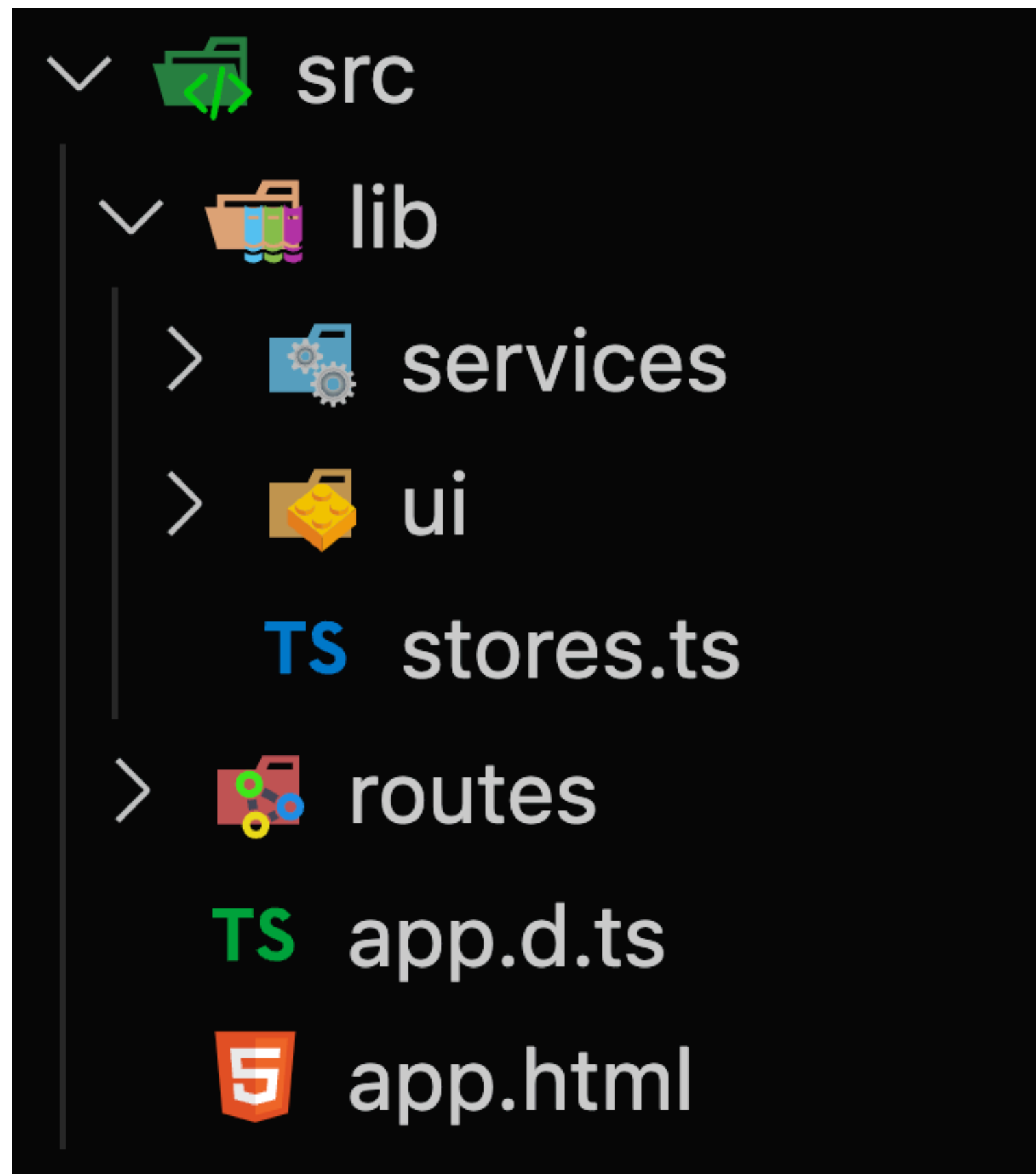
← Routes
← Main

Components →

Views →

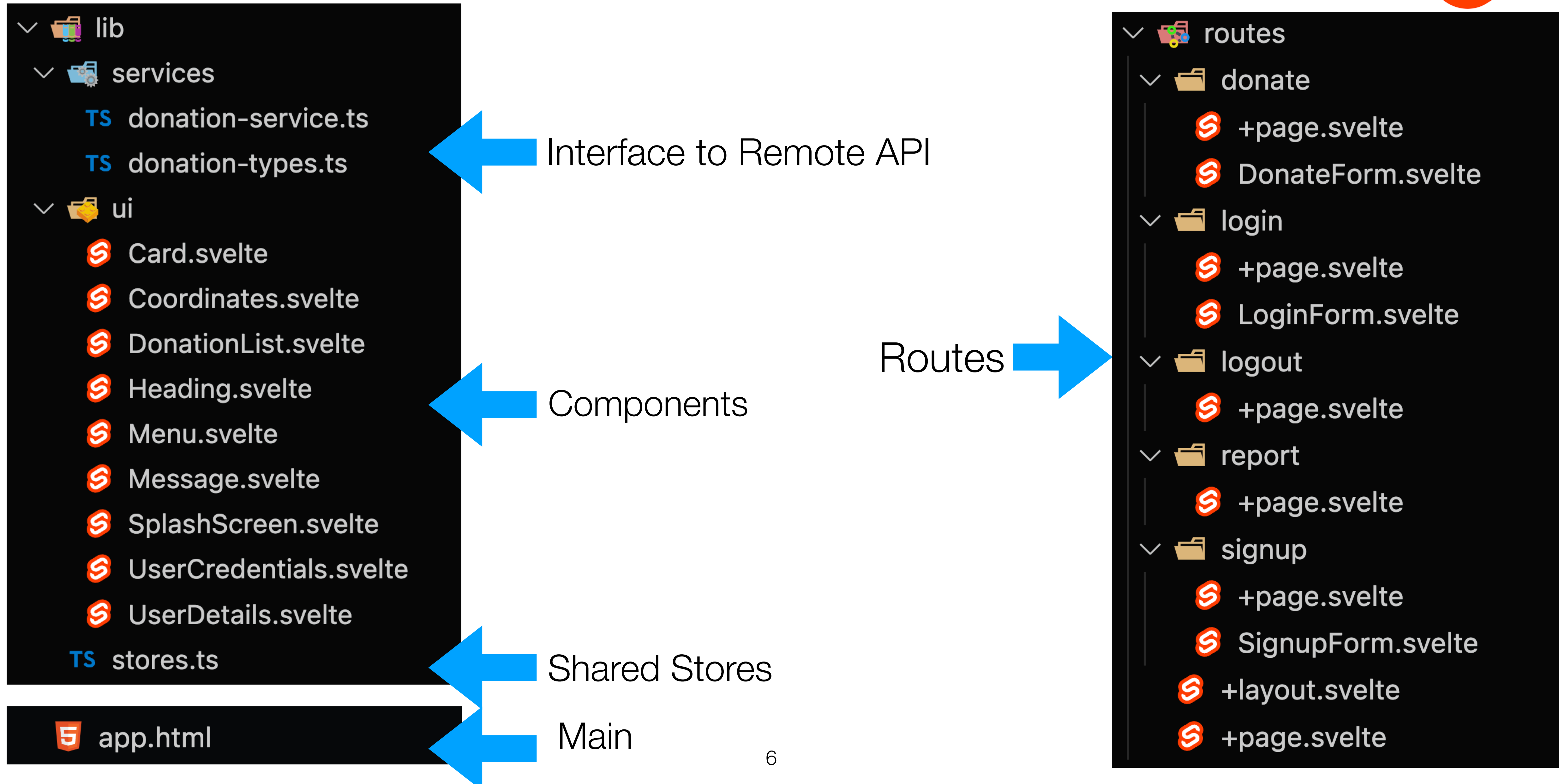


SvelteKit Web Application



- Front End Javascript Application
- SvelteKit Framework
- Interacts with remote services over HTTP (REST APIs)
- Npm Modules

SvelteKit Web Application



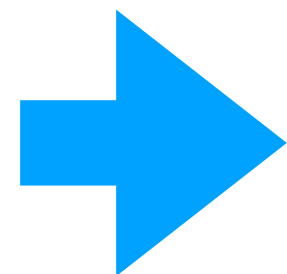


Hapi Node App

SvelteKit Web Application



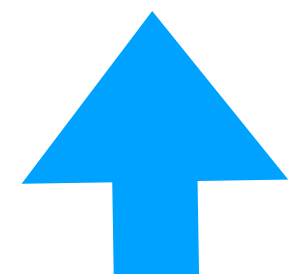
Handlebars
Visual
Components
& Views



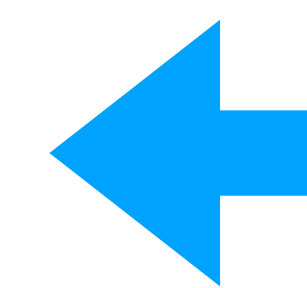
```
views
└─ partials
   ├── coordinates.hbs
   ├── donation-form.hbs
   ├── donation-list.hbs
   ├── heading.hbs
   ├── login-form.hbs
   ├── menu.hbs
   ├── signup-form.hbs
   ├── splashscreen.hbs
   ├── user-credentials.hbs
   └── user-details.hbs
├── donate.hbs
├── layout.hbs
├── login.hbs
├── main.hbs
├── report.hbs
└── signup.hbs
```

```
routes
└─ donate
   ├── +page.svelte
   └── DonateForm.svelte
└─ login
   ├── +page.svelte
   └── LoginForm.svelte
└─ logout
   └── +page.svelte
└─ report
   └── +page.svelte
└─ signup
   ├── +page.svelte
   ├── SignupForm.svelte
   ├── +layout.svelte
   └── +page.svelte
```

```
ui
├── Card.svelte
├── Coordinates.svelte
├── DonationList.svelte
├── Heading.svelte
├── Menu.svelte
├── Message.svelte
├── SplashScreen.svelte
├── UserCredentials.svelte
└── UserDetails.svelte
```

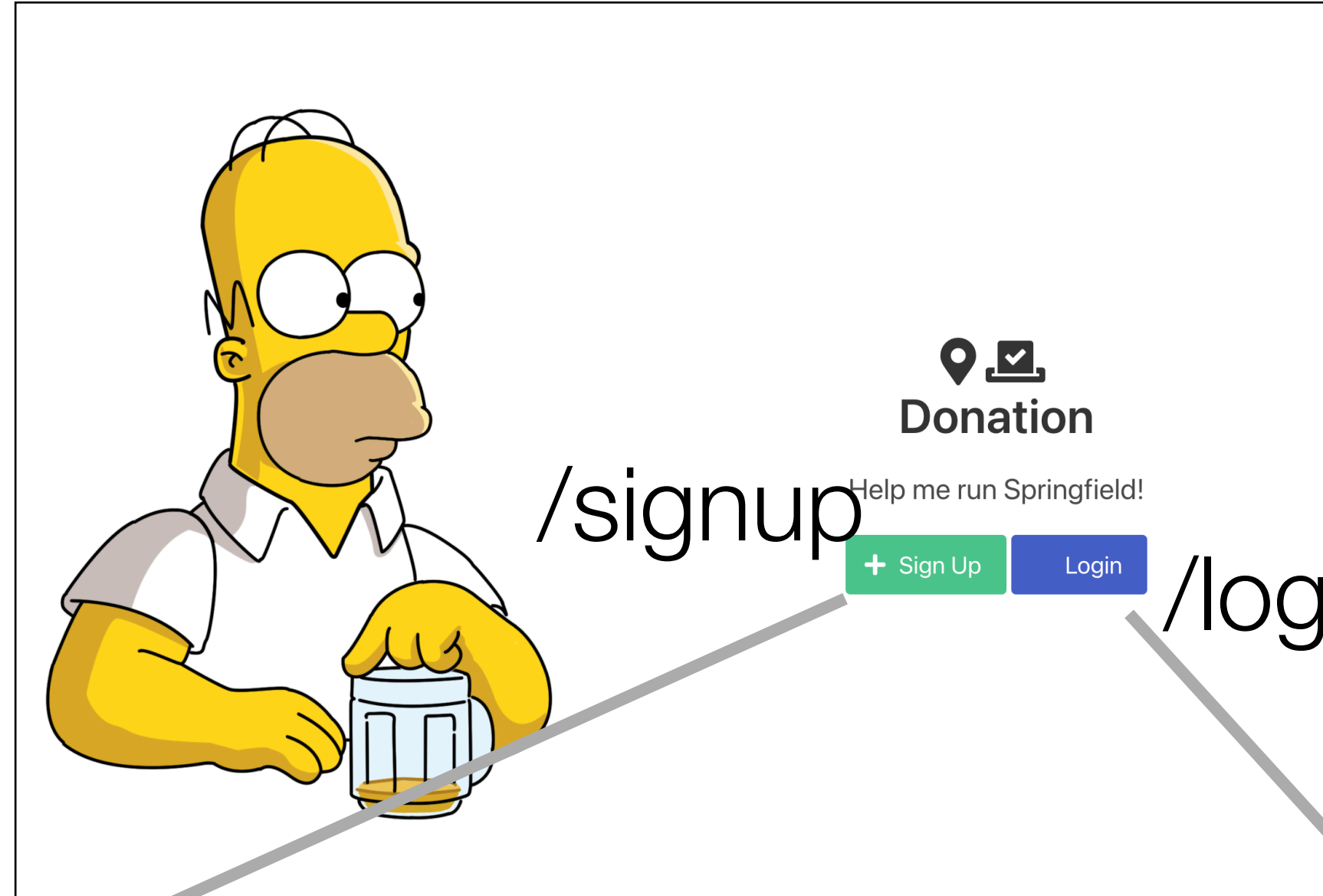


Svelte Visual
Components &
Views



Hapi Node App





📍📧
Donation

Help me run Springfield!

/signup

+ Sign Up

Login

/login

Donation
HAPI
Application

Login to DONATION

Email

✉ Email

Password

🔑 Password

Log In

Signup to Donation

Name

👤 First Name

👤 Last Name

Email

✉ Email

Password

🔑 Password

Create Account

Already have an account? [Login Here](#)

- Routing an intrinsic part of Server Rendered Applications (eg Hapi)

- Hapi Routes specified in a table



```
import { accountsController } from "../controllers/accounts-controller.js";
import { donationsController } from "../controllers/donations-controller.js";

export const webRoutes = [
  { method: "GET", path: "/", config: accountsController.index },
  { method: "GET", path: "/signup", config: accountsController.showSignup },
  { method: "GET", path: "/login", config: accountsController.showLogin },
];
```

- src
 - api
 - controllers
 - TS accounts-controller.ts
 - TS donations-controller.ts
 - models
 - mongo
 - TS db.ts
 - types
 - TS donation-types.ts
 - views
 - partials
 - coordinates.hbs
 - donation-form.hbs
 - donation-list.hbs
 - heading.hbs
 - login-form.hbs
 - menu.hbs
 - signup-form.hbs
 - splashscreen.hbs
 - user-credentials.hbs
 - user-details.hbs
 - donate.hbs
 - layout.hbs
 - login.hbs
 - main.hbs
 - report.hbs
 - signup.hbs
 - TS api-routes.ts
 - TS server.ts
 - TS web-routes.ts

- Router triggers Controller
- Controller loads View

Signup to Donation

Name

First Name Last Name

Email

Email

Password

Password

Create Account

Already have an account? [Login Here](#)

Help me run Springfield!

+ Sign Up

Login



```
<h2 class="subtitle is-4 mt-2">Help me run Springfield!</h2>
<p class="has-text-centered">
  <a class="button is-medium is-success" href="/signup">
    <span class="icon"><i class="fas fa-plus"></i></span><span>Sign Up</span>
  </a>
  <a class="button is-medium is-link" href="/login">
    <span class="icon"><i class="fas fa-sign-in"></i></span><span>Login</span>
  </a>
</p>
```

- Routes specified in `<a>` tags
- Hapi Router located and executes the correct controller/action on the server

Login to DONATION

Email

Email

Password

Password

Log In

```
{ method: "GET", path: "/signup", config: accountsController.showSignup },
{ method: "GET", path: "/login", config: accountsController.showLogin },
```

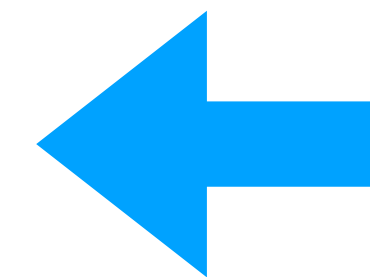
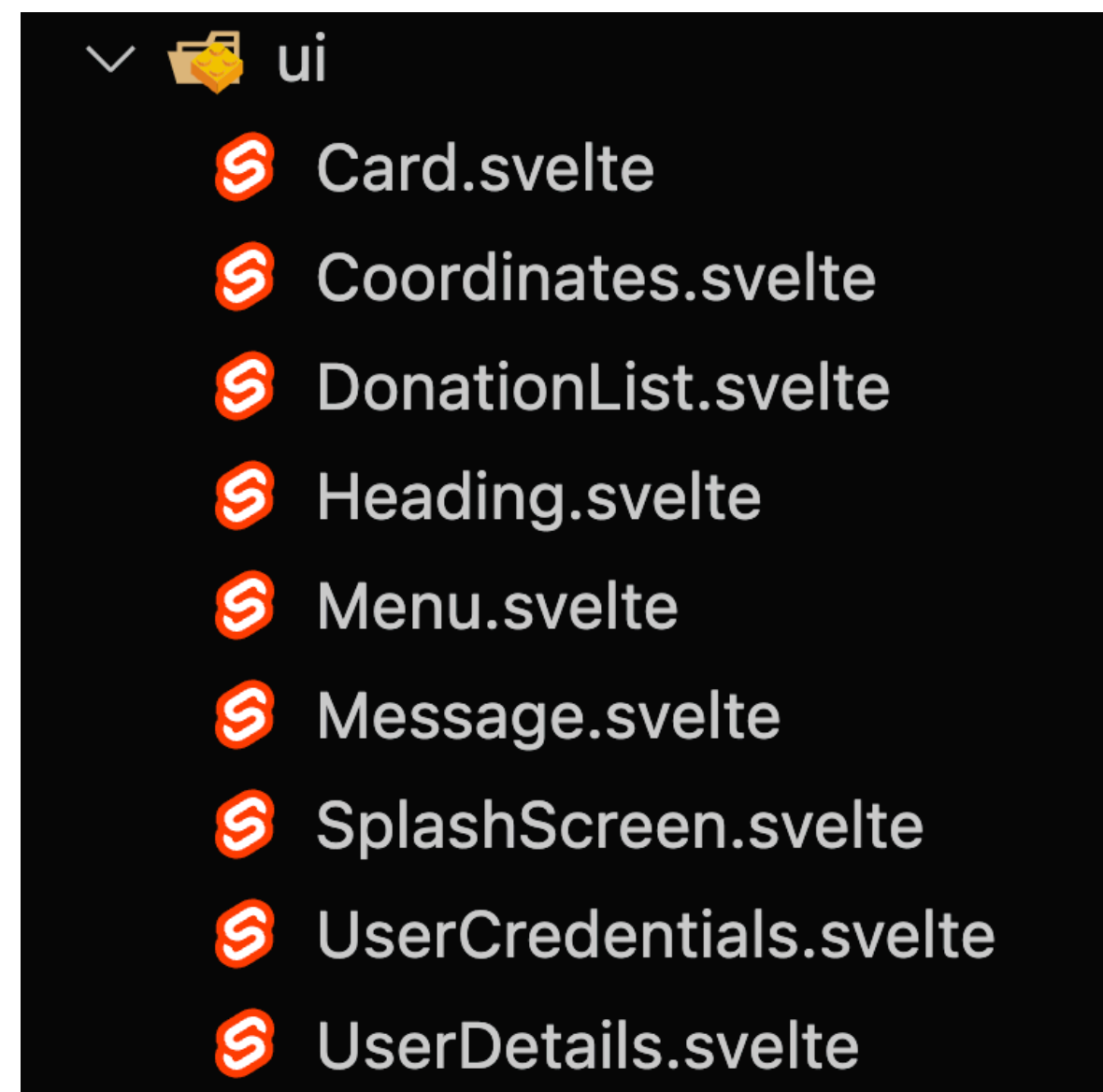
```
showLogin: {
  auth: false,
  handler: async function (request: Request, h: ResponseToolkit) {
    return h.view("login", { title: "Login to Donation" });
  },
},
```

```
<section class="hero is-fullheight">
  <div class="hero-body">
    <div class="container">
      <div class="column is-4 is-offset-4">
        <h3 class="title has-text-black has-text-centered">Login to DONATION</h3>
        <div class="box">
          {{> login-form }}
        </div>
      </div>
    </div>
  </div>
</section>
```

SvelteKit Web Application

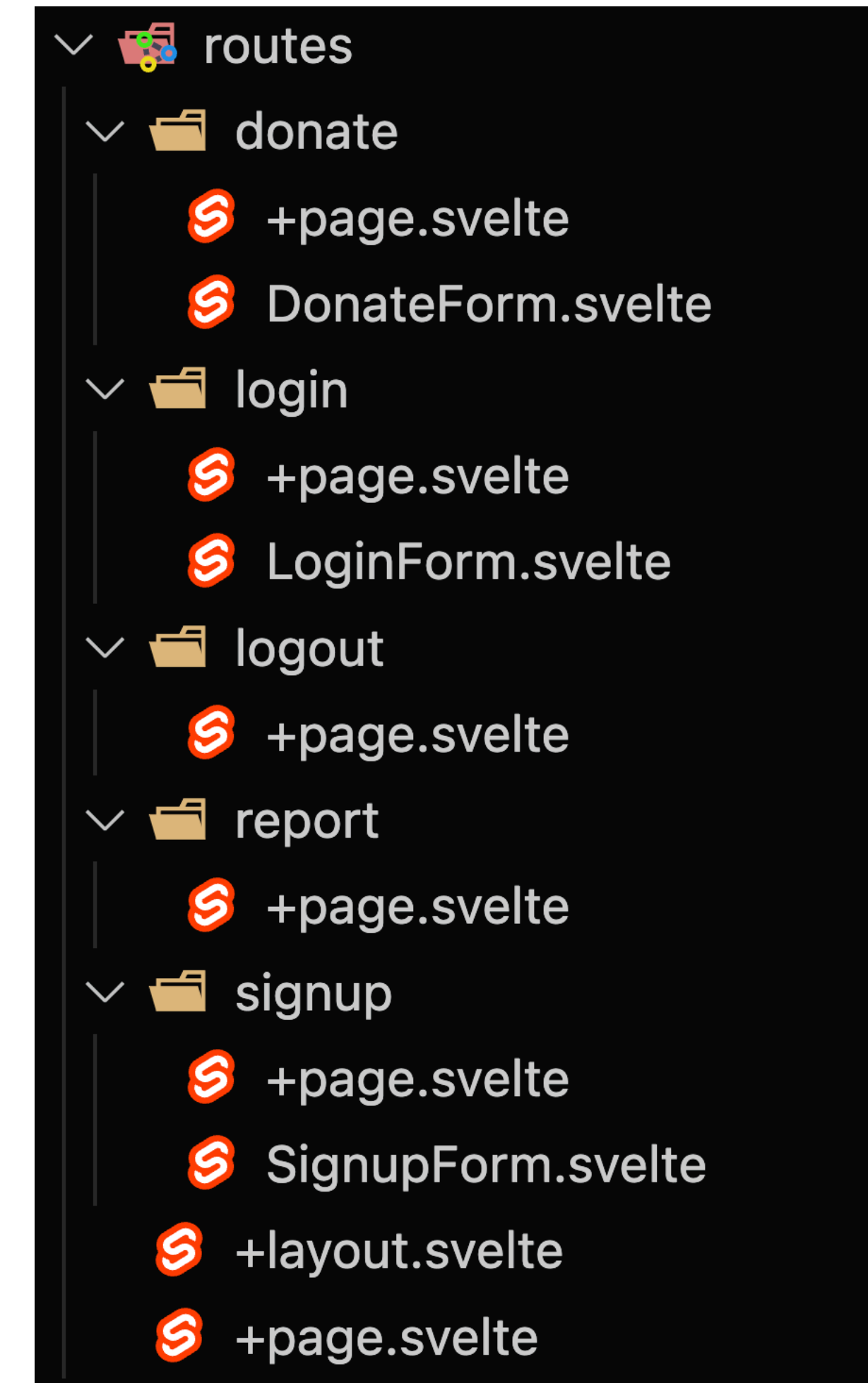
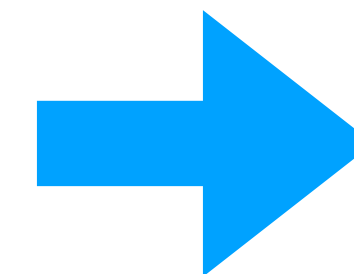


Application Structure



Visual Components

Web Pages/Views



app.html



- All pages in our app are based on this template

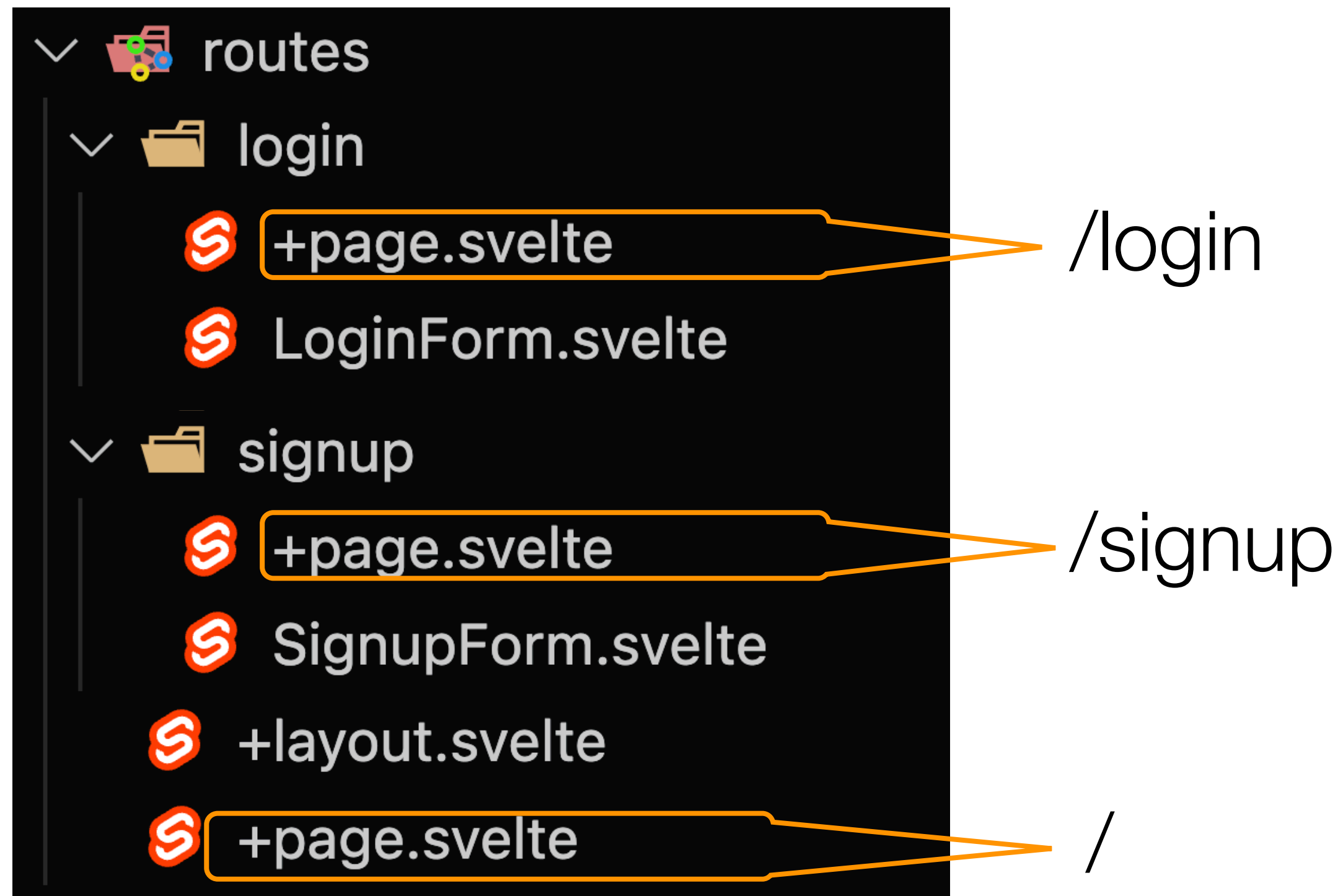
 app.html

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8" />
    <link rel="icon" href="%sveltekit.assets%/favicon.png" />
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bulma@0.9.4/css/bulma.min.css" />
    <link
      rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.1/css/all.min.css"
      integrity="sha512-+4zCK9k+qNFUR5X+cKL9EIR+Z0htIloNl9GIKS57V1MyNsYpYcUrUeQc9vNfzsWfV28IaLL3i96P9sdNyeRssA=="
      crossorigin="anonymous"
    />
    <link href="https://fonts.googleapis.com/css?family=Open+Sans:400,600,300" rel="stylesheet" type="text/css" />
    <meta name="viewport" content="width=device-width" />
    %sveltekit.head%
  </head>

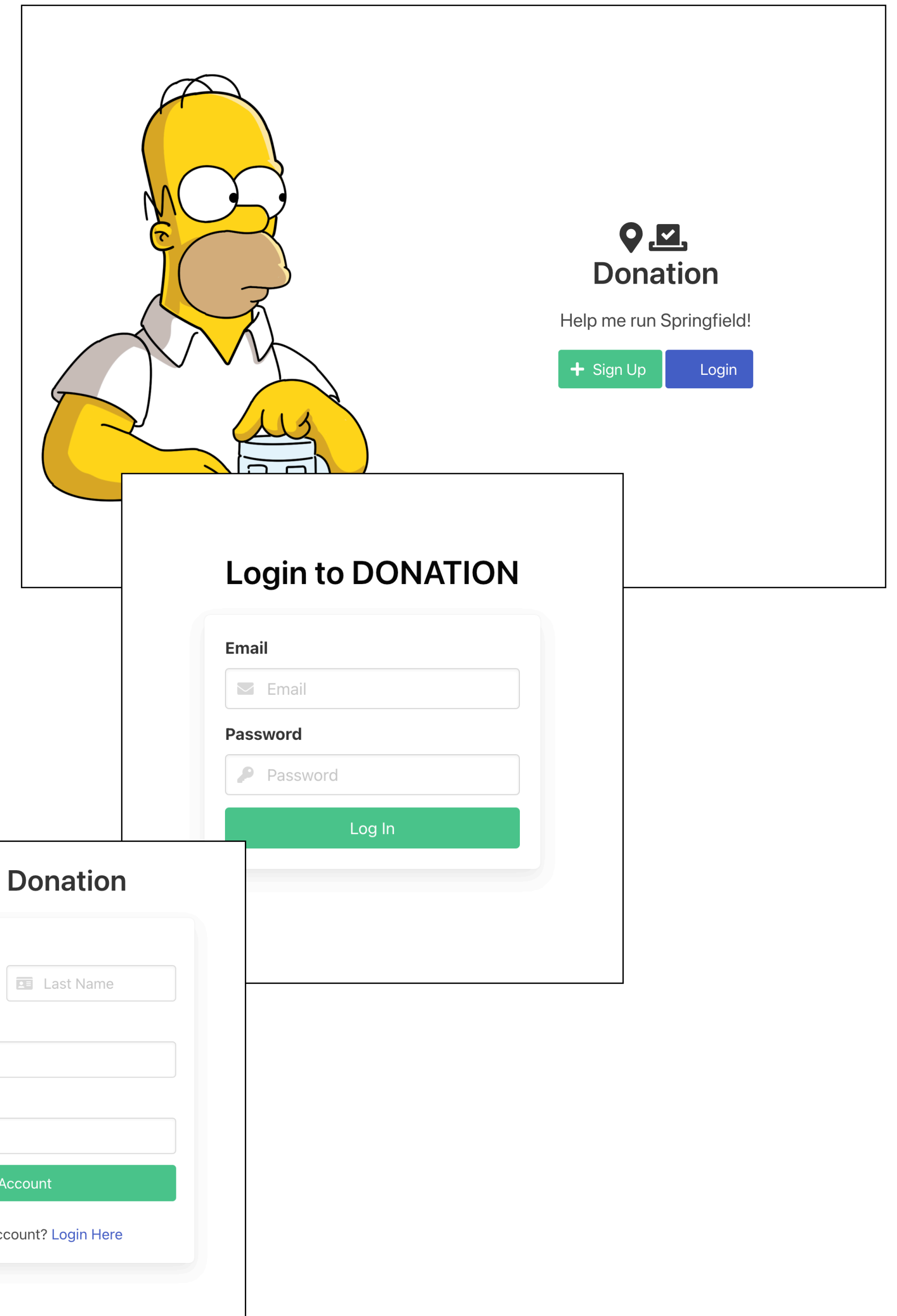
  <body data-sveltekit-preload-data="hover">
    <div style="display: contents">%sveltekit.body%</div>
  </body>
</html>
```

- This file is rarely updated

SvelteKit Router



- The route are defined by the subfolder names in “routes” folder



Signup to Donation

Name

First Name Last Name

Email

Email

Password

Password

Create Account

Already have an account? [Login Here](#)

Help me run Springfield!

+ Sign Up

Login



```
<h2 class="subtitle is-4 mt-2">Help me run Springfield!</h2>
<p class="has-text-centered">
  <a class="button is-medium is-success" href="/signup">
    <span class="icon"><i class="fas fa-plus"></i></span><span>Sign Up</span>
  </a>
  <a class="button is-medium is-link" href="/login">
    <span class="icon"><i class="fas fa-sign-in"></i></span><span>Login</span>
  </a>
</p>
```

- Routes specified in `<a>` tags
- Sveltekit router locates correct page to load
- This page will be loaded from the server

OR

- It may already be in the client, and rendered from browser cache

Login to DONATION

Email

Email

Password

Password

Log In

```
<script lang="ts">
  import LoginForm from "../LoginForm.svelte";
</script>

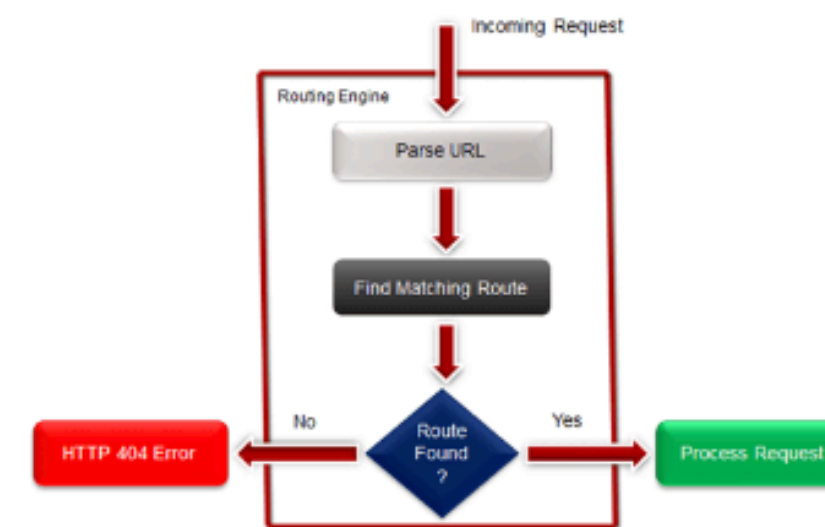
<section class="hero is-fullheight">
  <div class="hero-body">
    <div class="container">
      <div class="column is-4 is-offset-4">
        <h3 class="title has-text-black has-text-centered">Login to DONATION</h3>
        <div class="box">
          <LoginForm />
        </div>
      </div>
    </div>
  </div>
</section>
```

routes/login/+page.svelte

Routing



HOW ROUTING WORKS



How Routing works in
SvelteKit