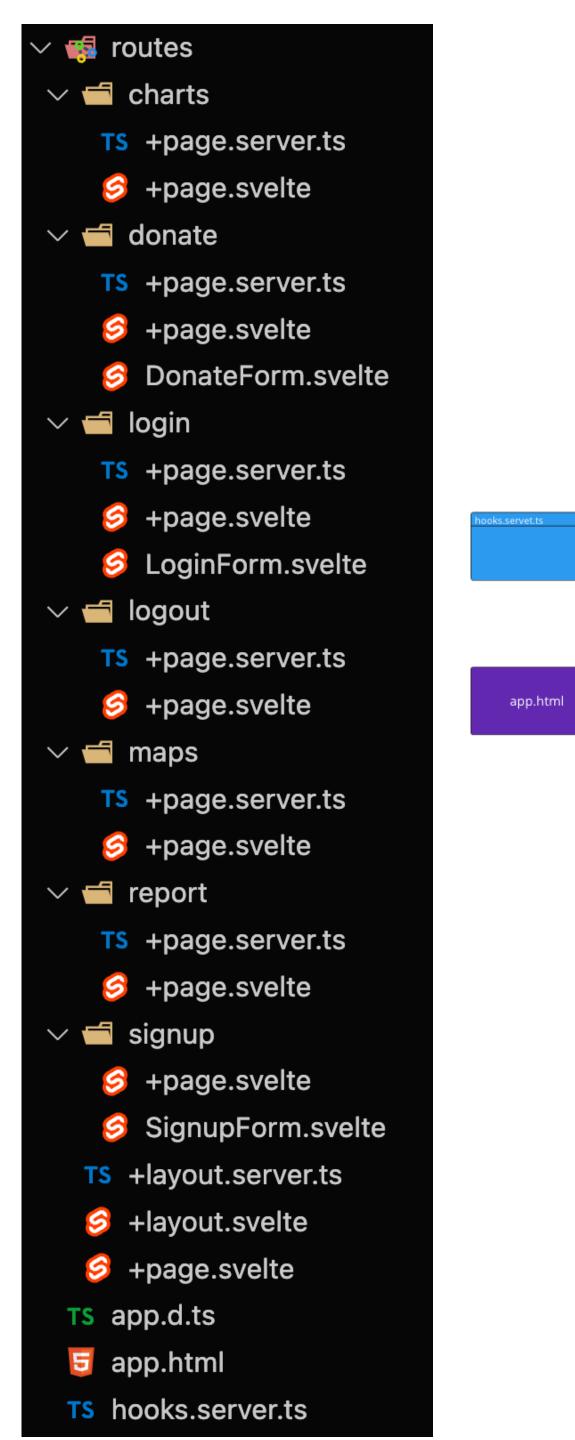
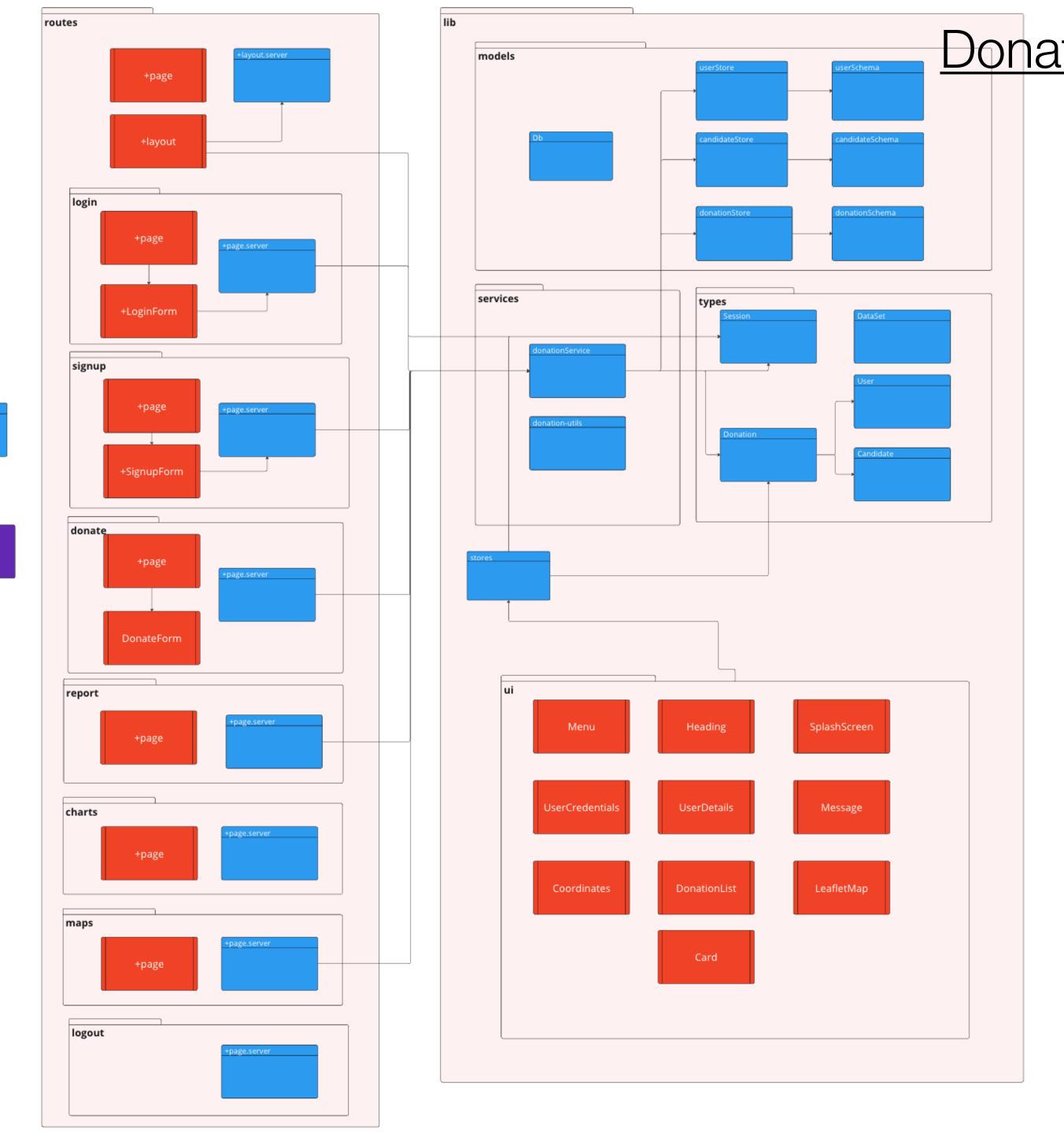
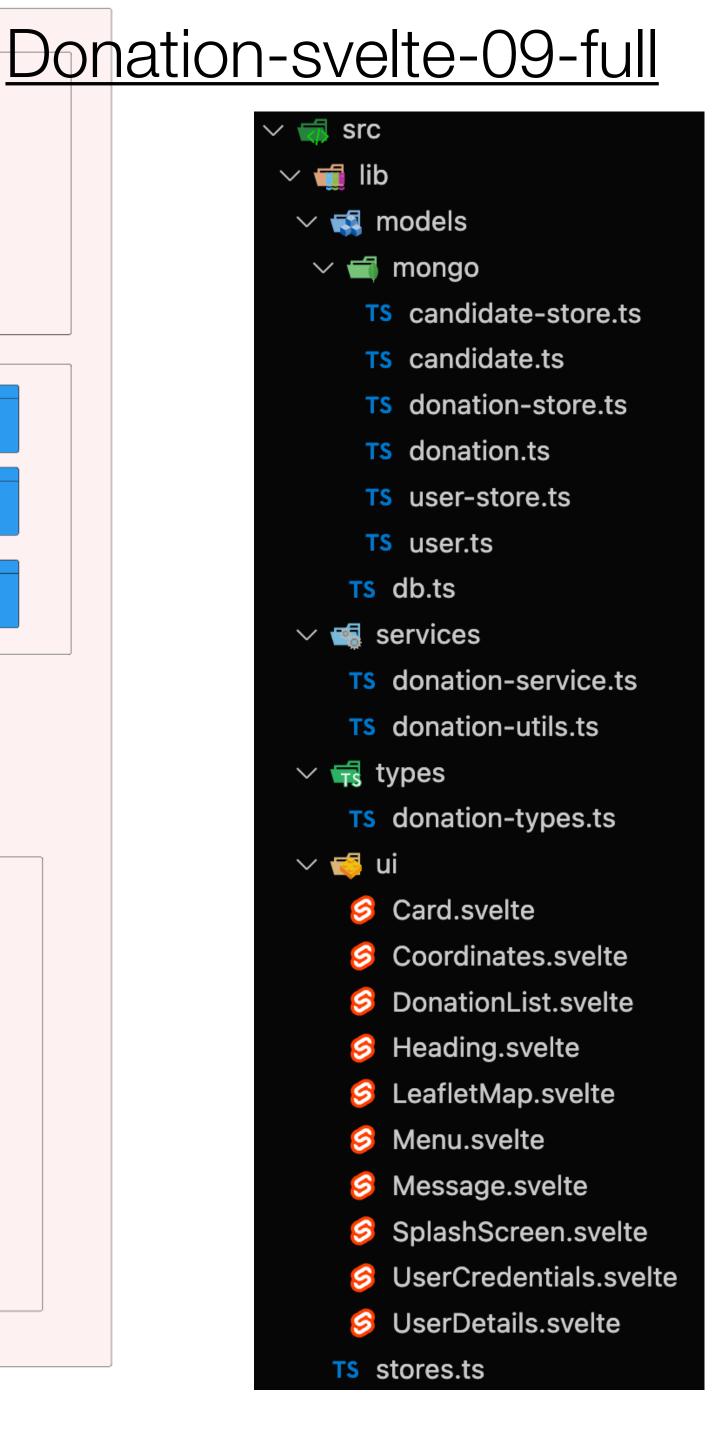
# Full Stack Implementation

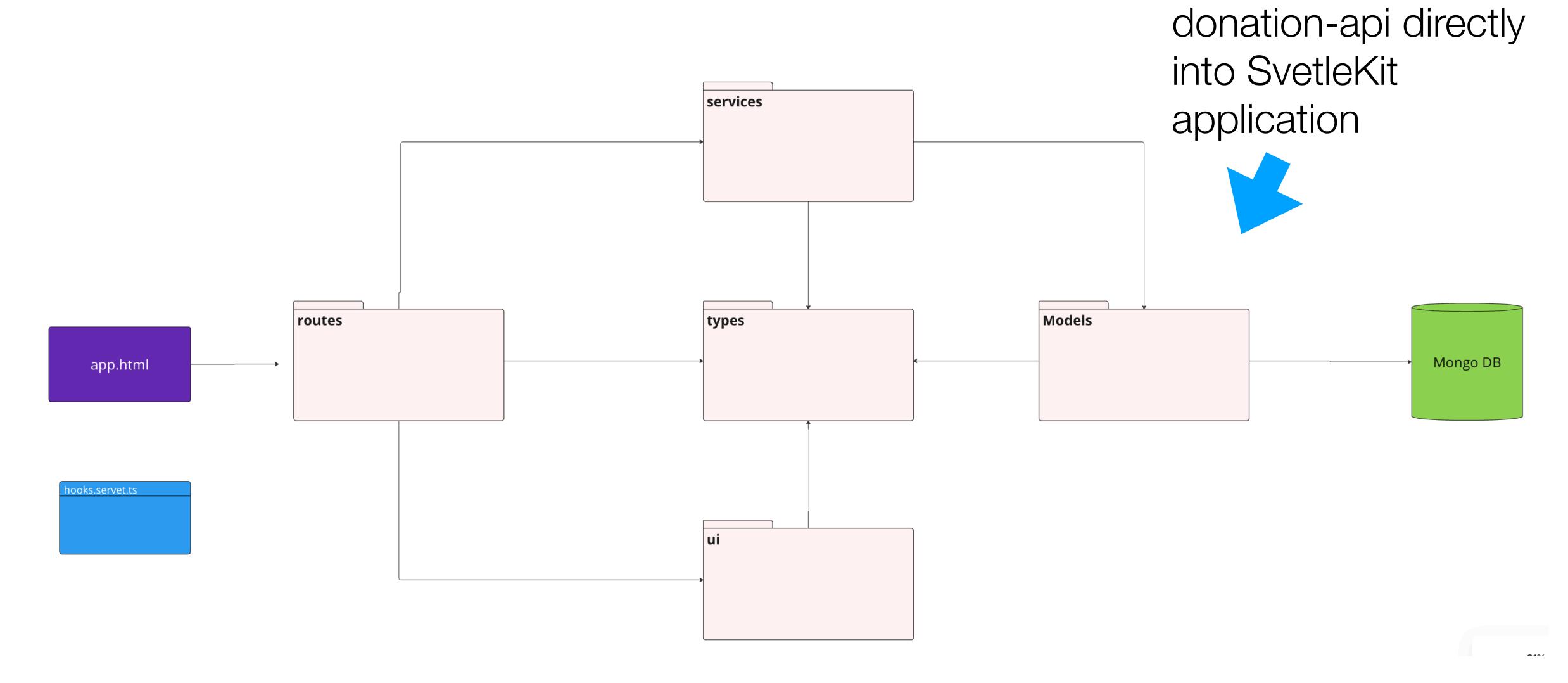
Implementing SvelteKit full stack apps







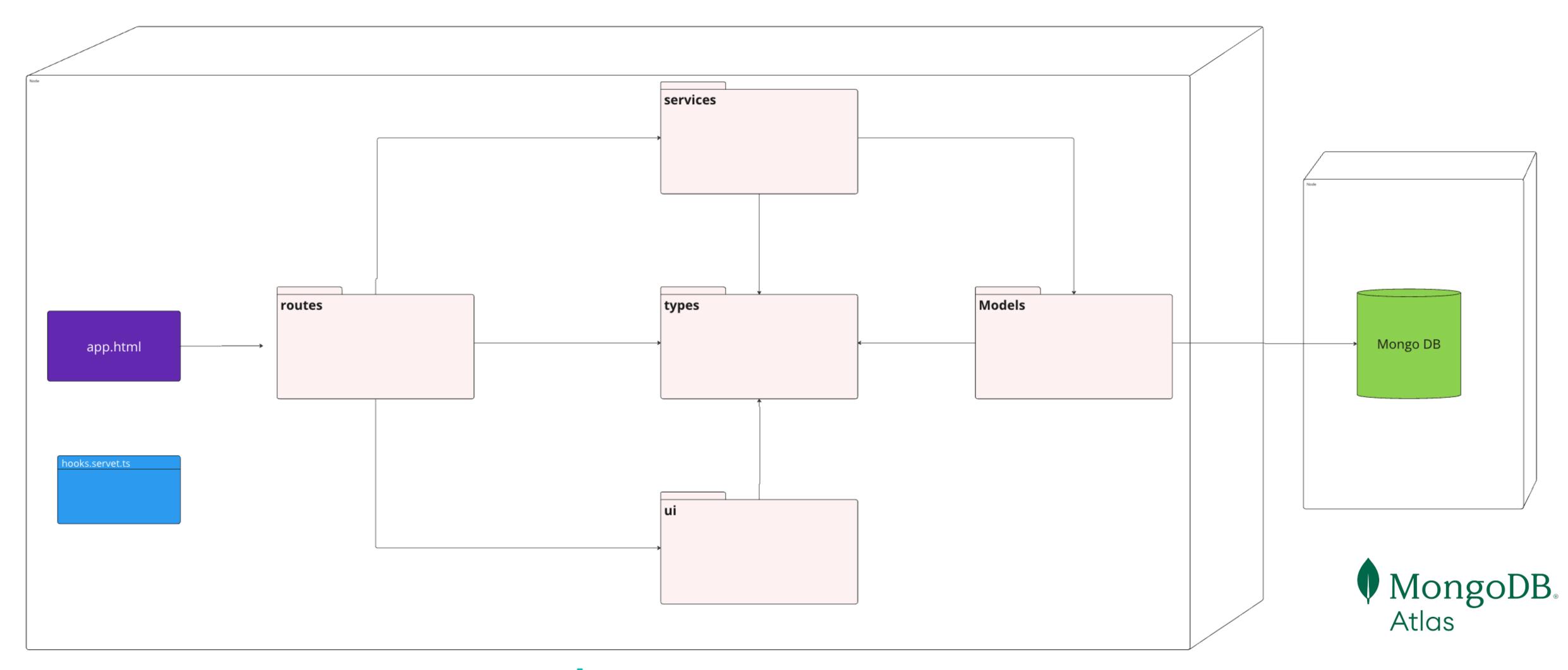
# Donation Full Stack Architecture



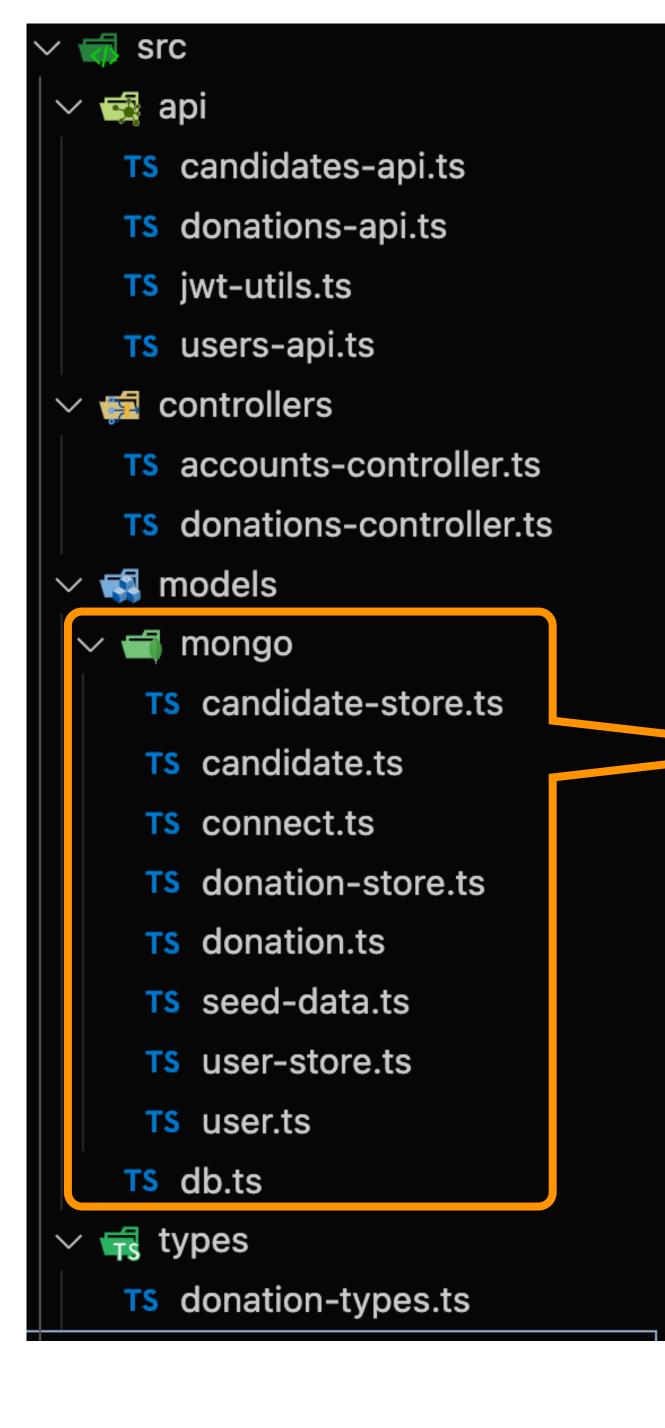
- Incorporate Models

package from

# Donation Full Stack Deployment



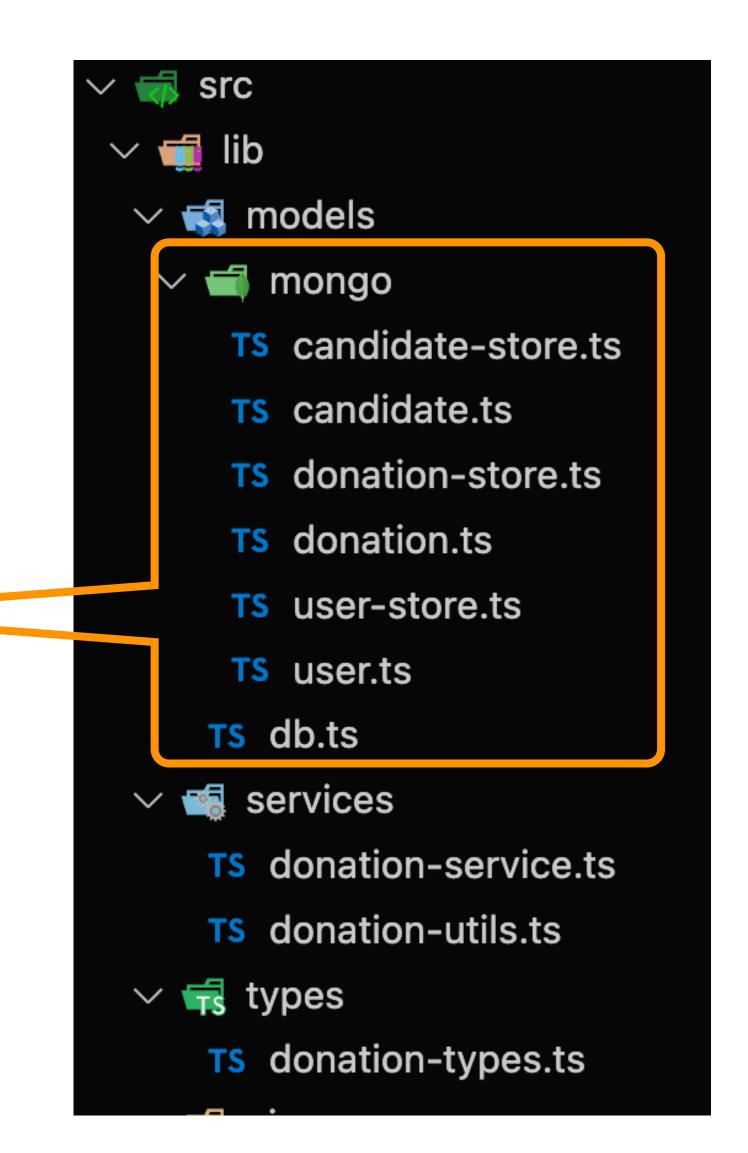




### Migrate Mongoose Models

- From Donation-hapi app
- ... to SvelteKit app

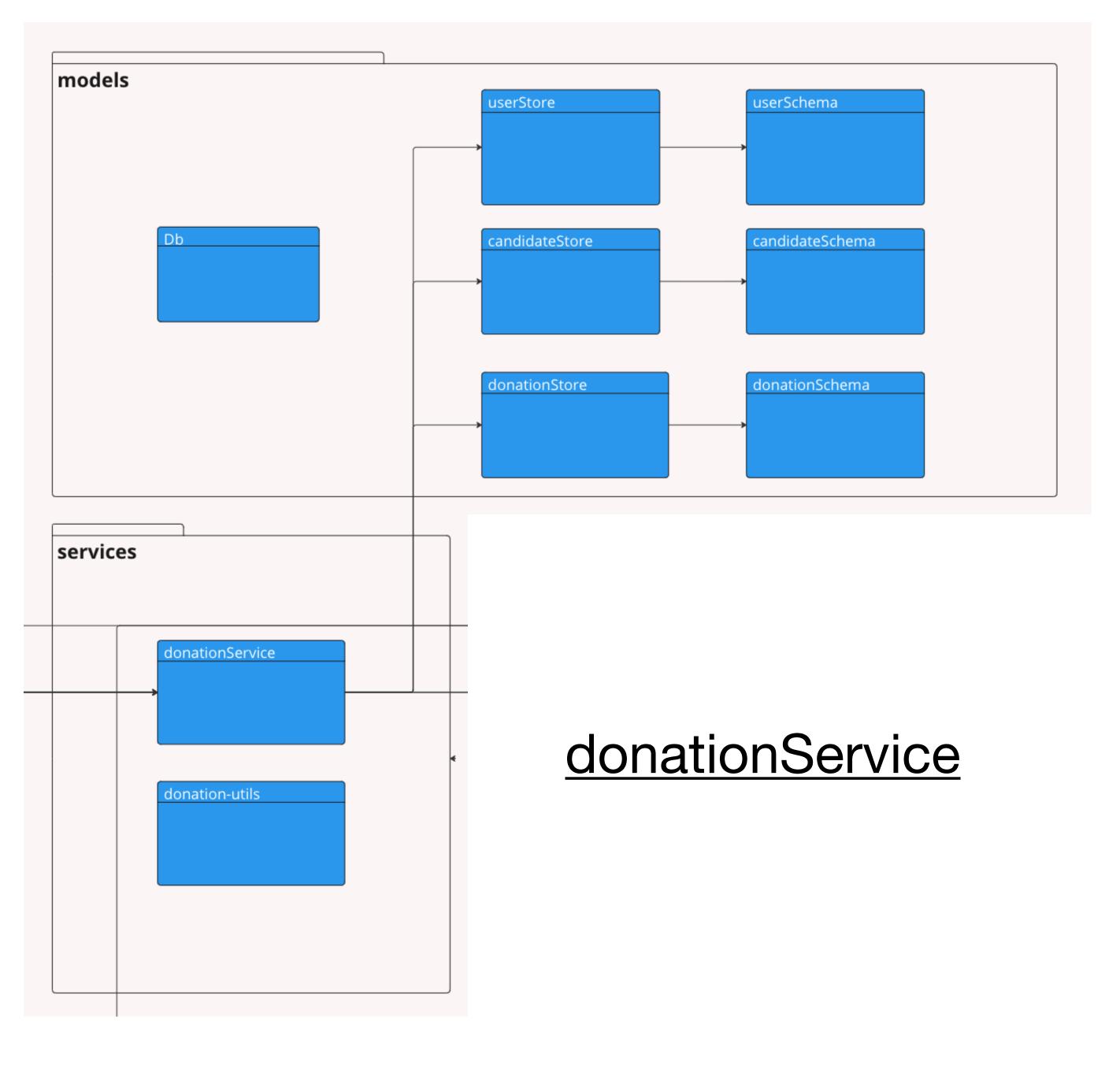
npm install mongoose



### import mongoose from "mongoose"; import { MONGO\_URL } from "\$env/static/private"; 0 - disconnected 1 - connected 2 - connecting 3 - disconnecting 4 - uninitialized const mongoConnection = { isConnected: 0 export const dbConnect = async () => { console.log("MONGO\_URL", MONGO\_URL); if (mongoConnection.isConnected === 1) { console.log("already connected"); return; if (mongoose.connections.length > 0) { mongoConnection.isConnected = mongoose.connections[0].readyState; if (mongoConnection.isConnected === 1) { console.log("using existing connection"); return; await mongoose.disconnect(); await mongoose.connect(MONGO\_URL); mongoConnection.isConnected = 1; console.log("conected to ", MONGO\_URL ?? "");

### Database Connection

- dbConnect() established connection of Mongo database server
- Only connect if not already connected



- Refactor donationService:
  - Remove API access via HTTP
  - Replace with direct access to the donation stores

```
export const donationService = {
 baseUrl: "http://localhost:4000",
 async login(email: string, password: string): Promise<Session | null> {
   try {
     const response = await axios.post(`${this.baseUrl}/api/users/authenticate`, { email, password });
     if (response.data.success) {
       axios.defaults.headers.common["Authorization"] = "Bearer " + response.data.token;
       const session: Session = {
         name: response.data.name,
         token: response.data.token,
         _id: response.data.id
       };
                                                           export const donationService = {
       return session;
                                                             async login(email: string, password: string): Promise<Session | null> {
                                                               try {
     return null;
                                                                 const user = await userStore.findBy(email);
    catch (error) {
                                                                 if (user !== null && user.password === password) {
     console.log(error);
     return null;
                                                                    const session = {
                                                                      name: `${user.firstName} ${user.lastName}`,
                                                                      token: user._id!.toString(),
                                                                      _id: user._id!.toString()
                                                                    };
                                                                    return session;
                    - Directly access
                                                                 return null;
                       userStore
                                                                 catch (error)
                                                                 console.log(error);
                                                                 return null;
```

```
async donate(donation: Donation, session: Session) {
  try {
    axios.defaults.headers.common["Authorization"] = "Bearer " + session.token;
    const response = await axios.post(this.baseUrl + "/api/candidates/" + donation.candidate + "/donations", donation);
    return response.status == 200;
} catch (error) {
    return false;
}
},
```

- Directly access donationStore

```
async donate(donation: Donation) {
  try {
    donationStore.add(donation);
  } catch (error) {
    return false;
  }
},
```

## Hooks

- 'Hooks' are app-wide functions you declare that SvelteKit will call in response to specific events, giving you fine-grained control over the framework's behaviour.

```
import { dbConnect } from "$lib/models/db";
import type { Handle } from "@sveltejs/kit";

await dbConnect();

export const handle: Handle = async ({ event, resolve }) => {
   const response = await resolve(event);
   return response;
};
```

### hooks.server.ts

