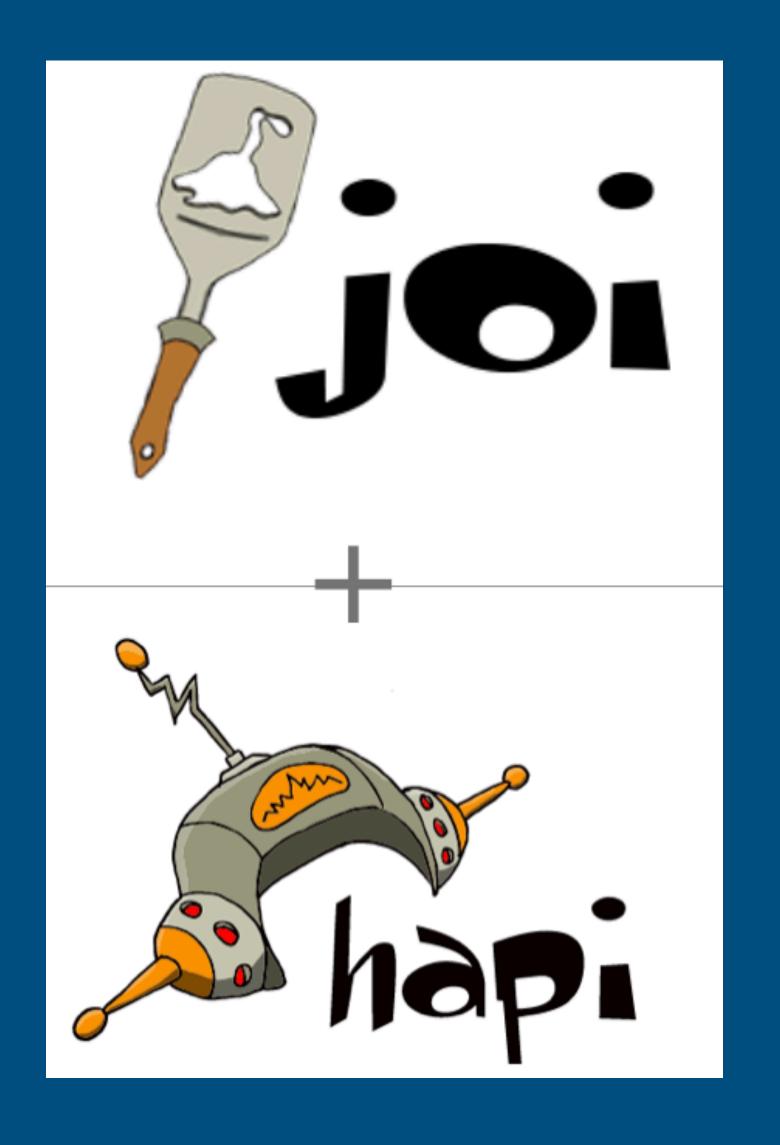
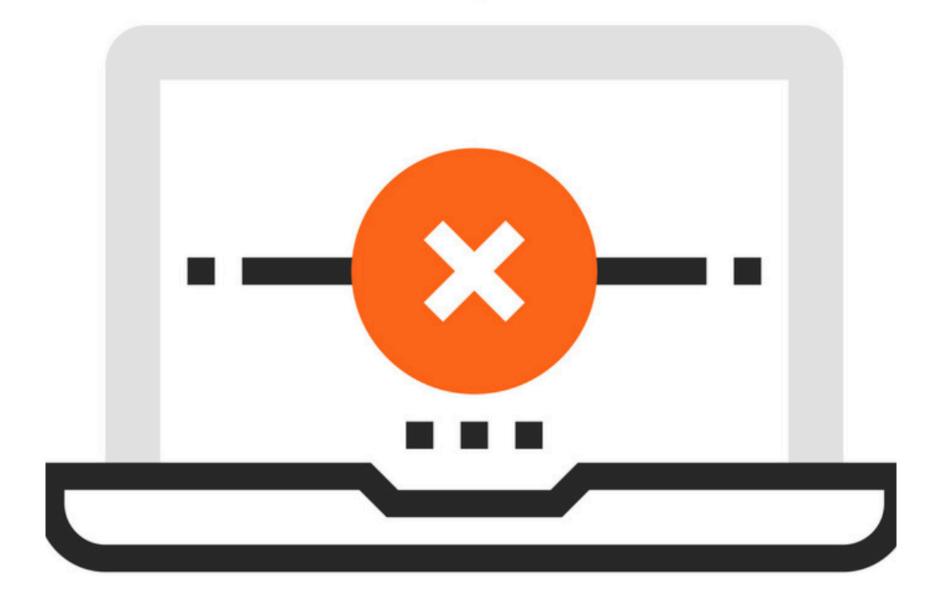
Joi + Hapi

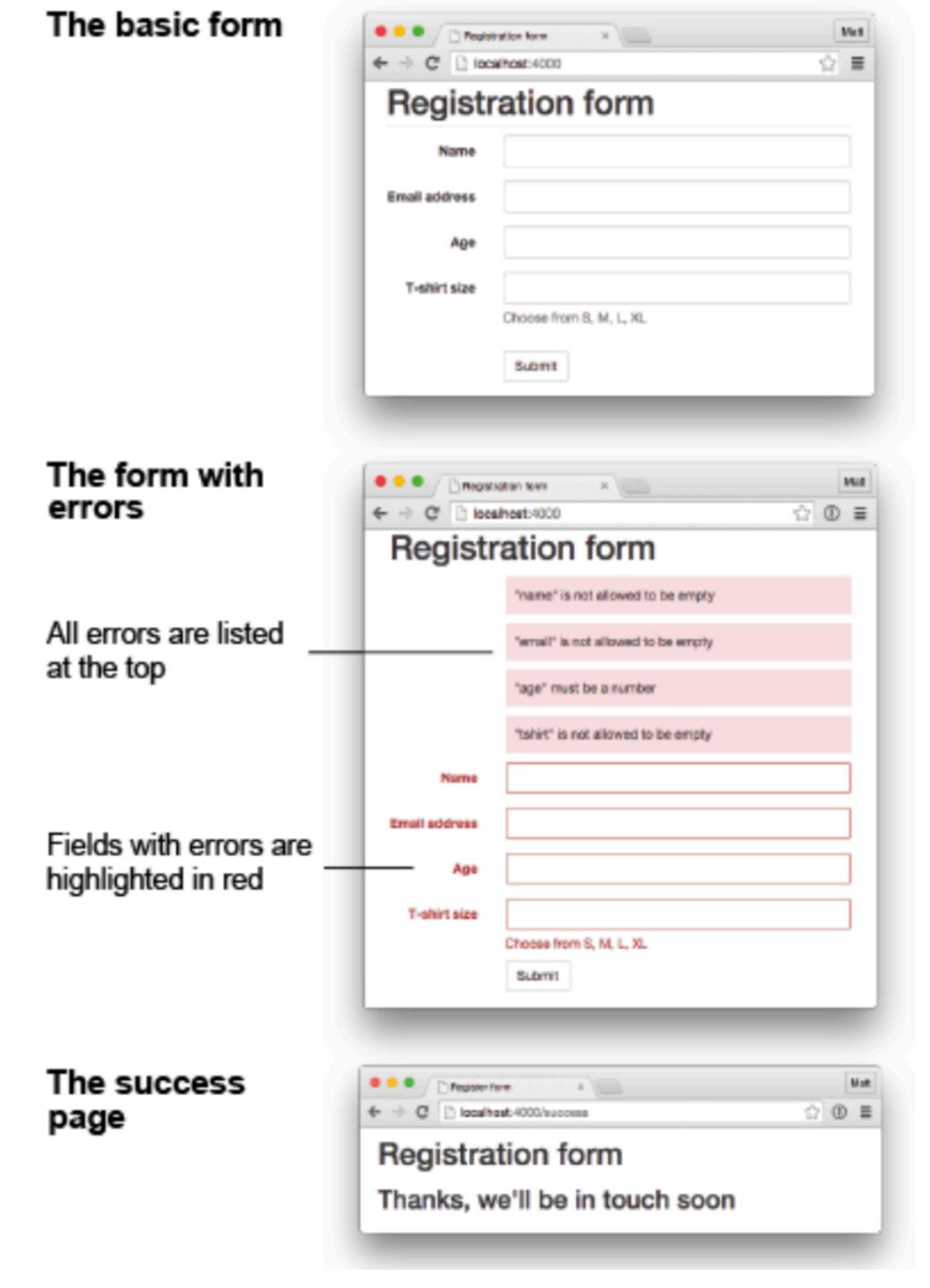


Full Stack Web Development

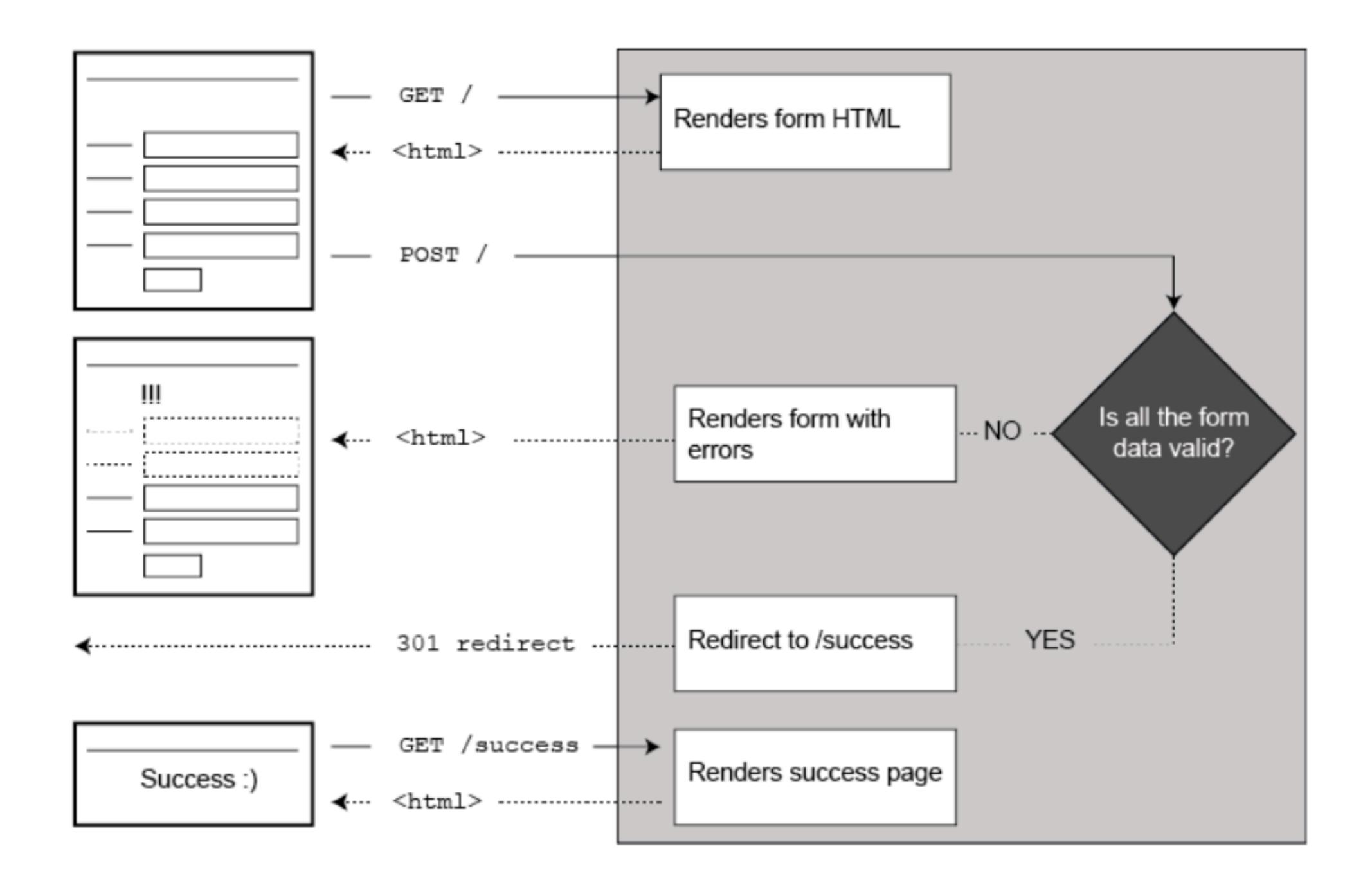
<u>Agenda</u>

- Error Handling UI Strategies
- Joi Installation
- Joi in Donation





Potential Error
 Reporting
 Strategy



Install Joi

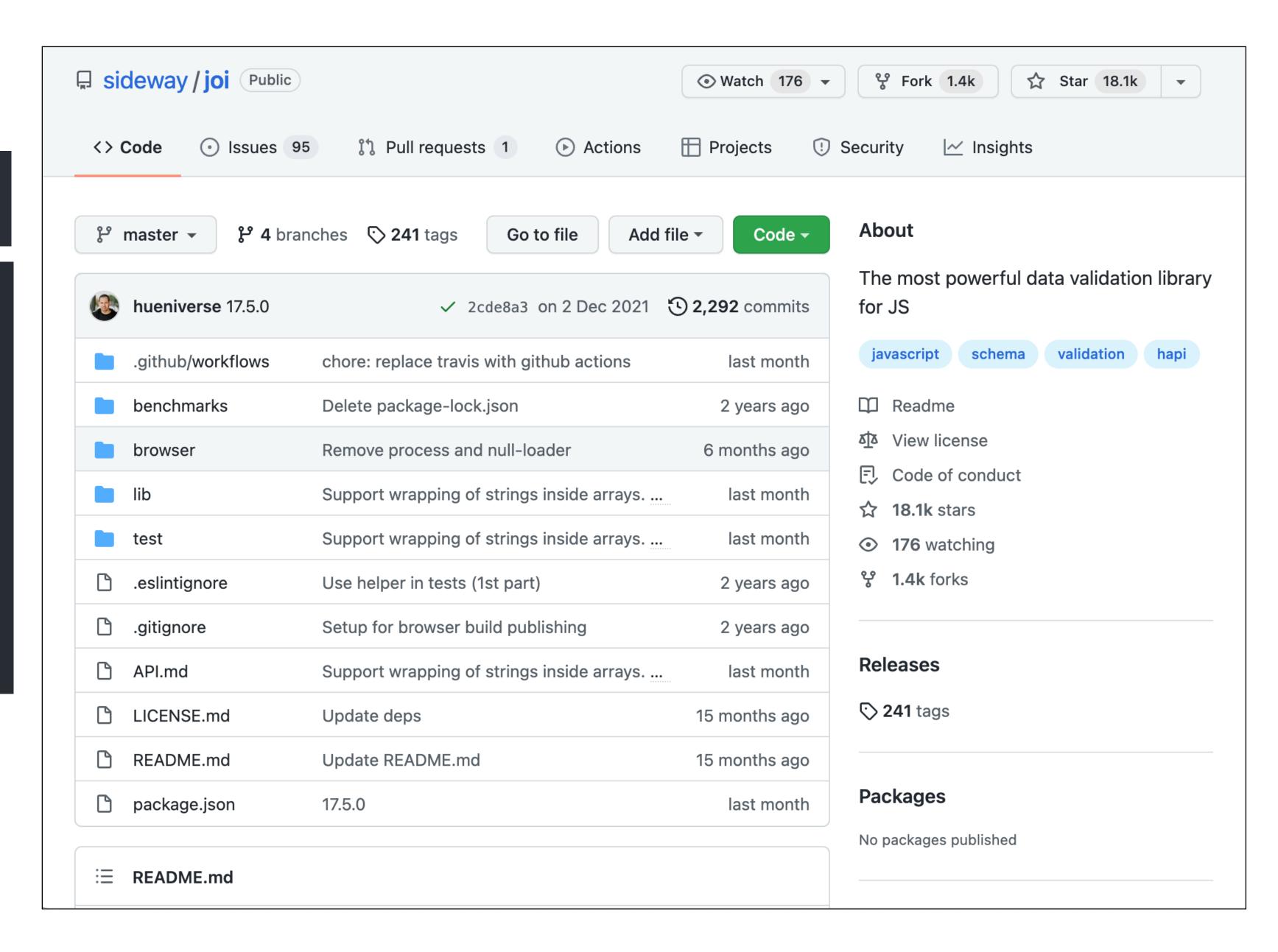
```
npm install joi
```

```
import Joi from "joi";

...

await server.register(Vision);
await server.register(Cookie);
server.validator(Joi);
...
```

Install and configure Joi validation engine.

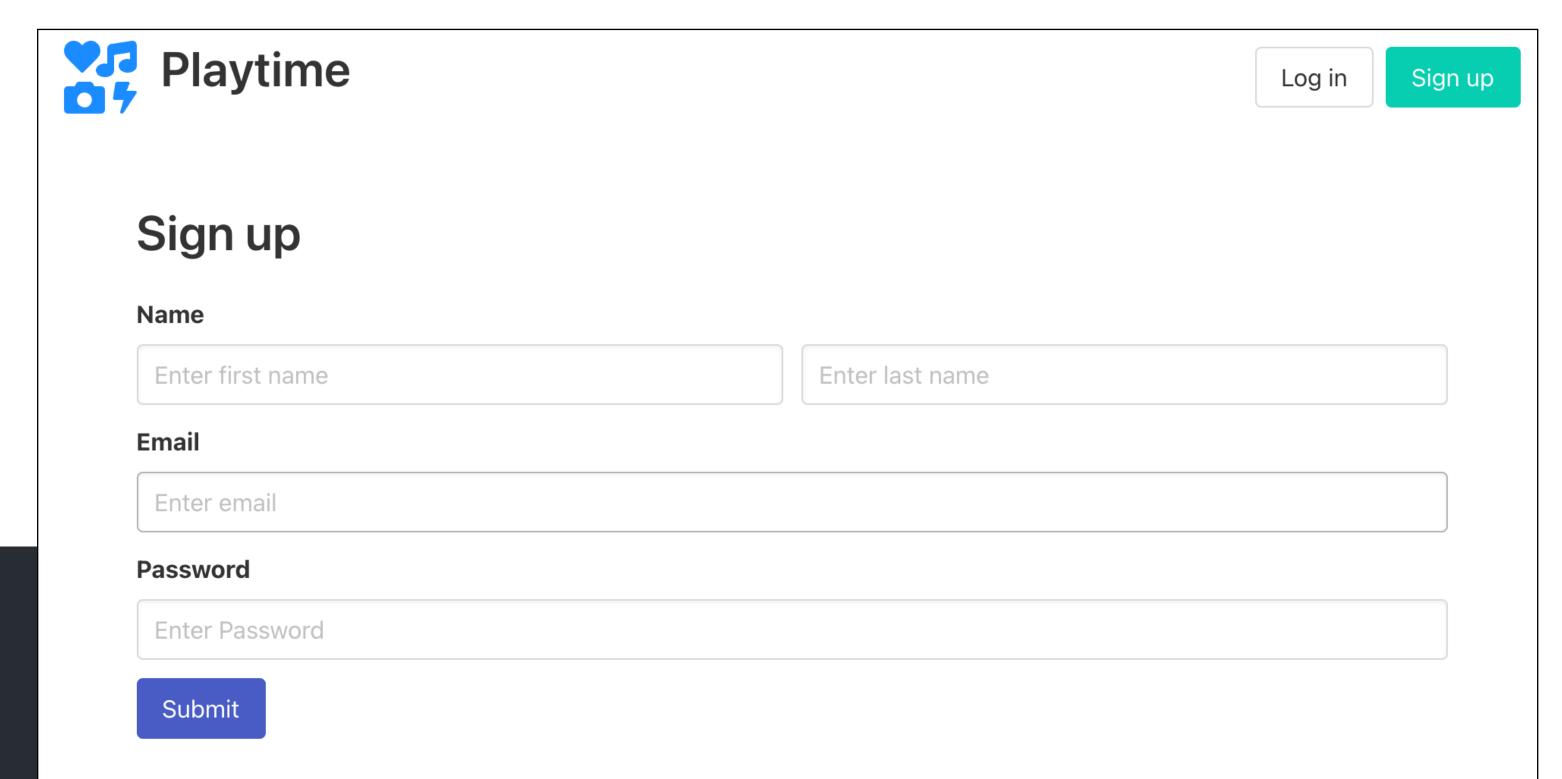


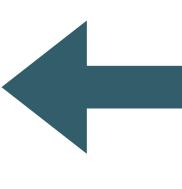
Joi in Playtime

db/joi-schema.js

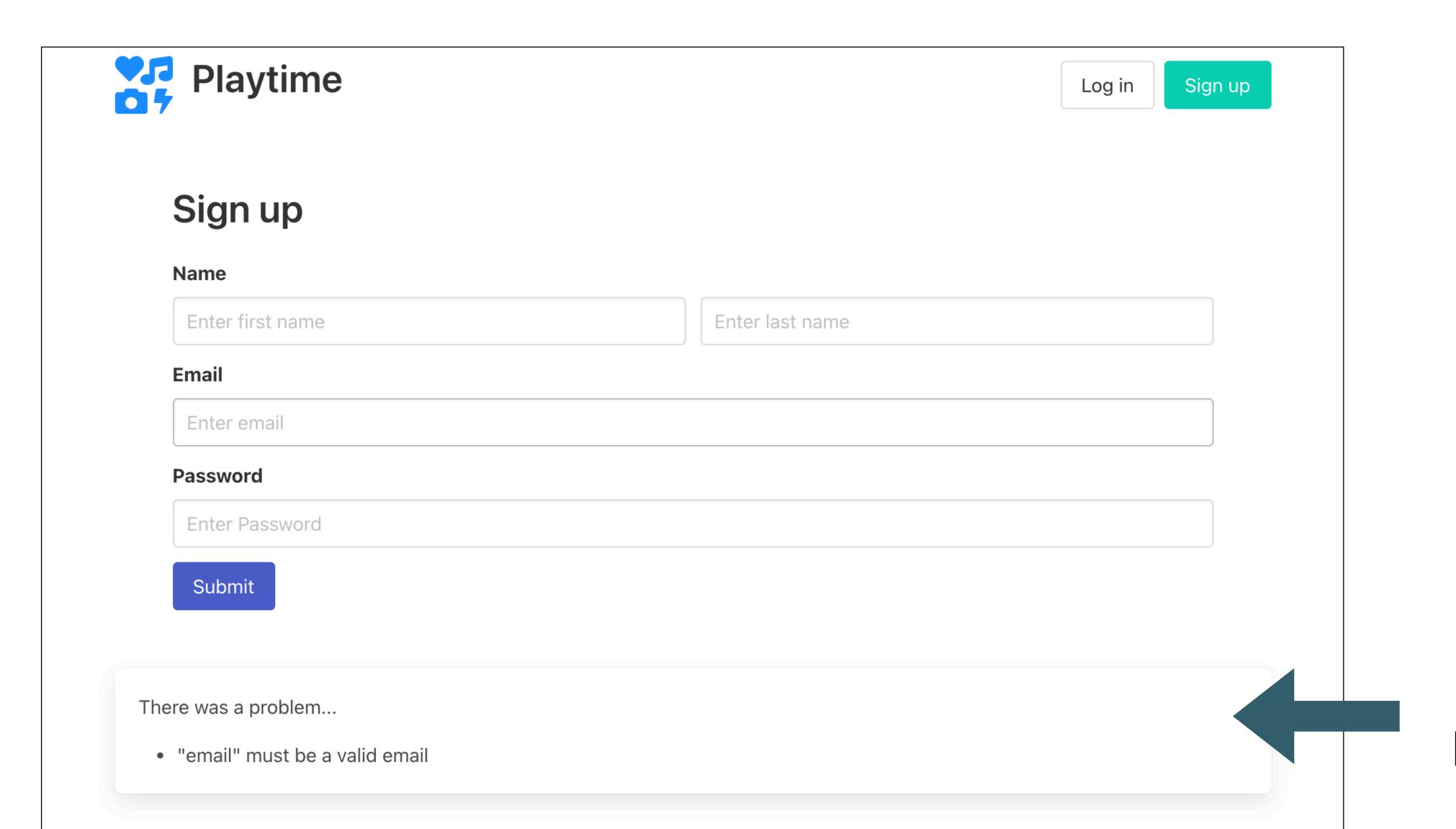
import Joi from "joi";

```
export const UserSpec = {
  firstName: Joi.string().required(),
  lastName: Joi.string().required(),
  email: Joi.string().email().required(),
  password: Joi.string().required(),
};
```





Define a schema to describe user signup information



Additional Error panel

Sign up

Name

Enter first name

Enter last name

Email

Enter email

Password

Enter Password

Submit

There was a problem...

• "email" must be a valid email



error.hbs

layout.hbs

</body>

</html>

```
<!DOCTYPE html>
<html>
 <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <title>{{title}}</title>
    k rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bulma@0.9.3/css/bulma.min.css">
    <script src="https://use.fontawesome.com/releases/v5.15.4/js/all.js"></script>
 </head>
  <body>
                                                                     error.hbs
   <div class="container">
     {{{content}}}
     {{> error }}
   </div>
```

 Define a schema to describe user signup information

```
{{#if errors}}
 <div class="box content">
    There was a problem... 
   <u1>
     {{#each errors}}
       {|message|}
     {{/each}}
   </div>
{{/if}}
```

 payload: This defines a schema which defines rules that our fields must adhere to.

```
validate: {
  payload: UserSpec,
  options: { abortEarly: false },
  failAction: function(request, h, error) {
    return h.view("signup-view", { title: "Sign up error", errors: error.details }).takeover().code(400);
  },
},
```

There was a problem...

- "firstName" is not allowed to be empty
- "lastName" is not allowed to be empty
- "email" is not allowed to be empty
- "password" is not allowed to be empty

• failAction: This is the handler to invoke if one or more of the fields fails the validation

- Equip the handlers with validate objects
- These objects will drive the Joi validation engine, generating errors if there any violations

There was a problem...

- "firstName" is not allowed to be empty
- "lastName" is not allowed to be empty
- "email" is not allowed to be empty
- "password" is not allowed to be empty

accounts-controller.js

```
import { UserSpec, } from "../models/joi-schemas.js";
 signup: {
   auth: false,
   validate: {
     payload: UserSpec,
      failAction: function (request, h, error) {
       return h.view("signup-view", { title: "Sign up error" }).takeover().code(400);
     },
   },
   handler: async function (request, h) {
     const user = request.payload;
      await db.userStore.addUser(user);
     return h.redirect("/");
   },
 },
```

validate Property in Hapi handler

```
validate: {
   payload: {
     firstName: Joi.string().required(),
     lastName: Joi.string().required(),
     email: Joi.string()
       .email()
       .required(),
     password: Joi.string().required()
   failAction: function(request, h, error) {
     return h
       .view('signup', {
         title: 'Sign up error',
         errors: error.details
       })
       .takeover()
       .code(400);
```

- payload: This defines a schema which defines rules that our fields must adhere to.
- failAction: This is the handler to invoke of one or more of the fields fails the validation

enable validation for this handler

the joi schema - tied to payload from request

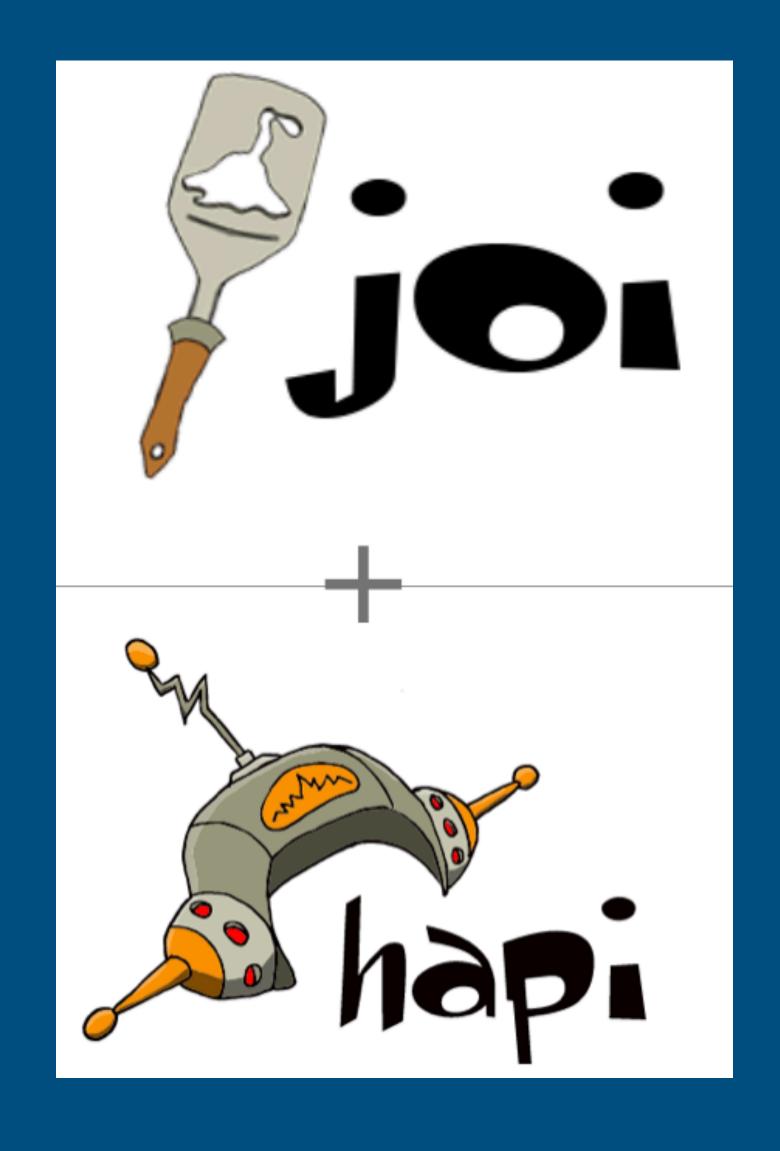
handler if validation fails

the main handler for register, only validated payload gets here

signup handler

```
signup: {
 auth: false,
  validate: {
   payload: UserSpec,
   options: { abortEarly: false },
    failAction: function (request, h, error) {
     return h.view("signup-view", {
        title: "Sign up error",
        errors: error.details
      }).takeover().code(400);
 handler: async function (request, h) {
   const user = request.payload;
   await db.userStore.addUser(user);
   return h.redirect("/");
```

Joi + Hapi



Full Stack Web Development