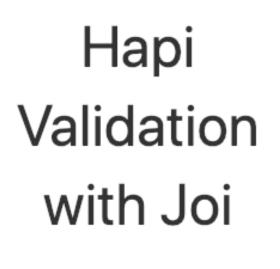
Joi + Hapi Validation





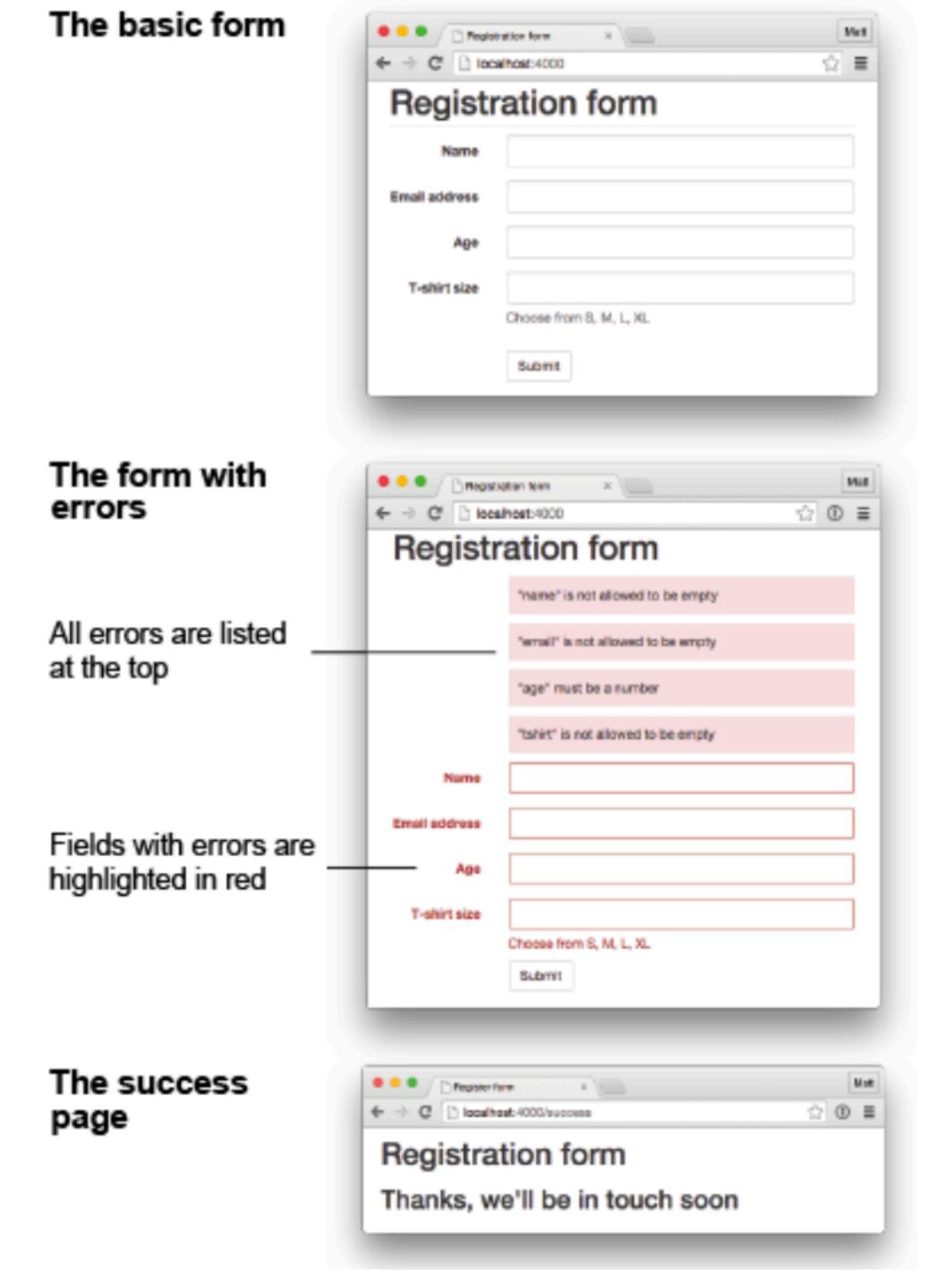


Hapi & Joi can work together to deliver easy to configure declarative validation for handlers.

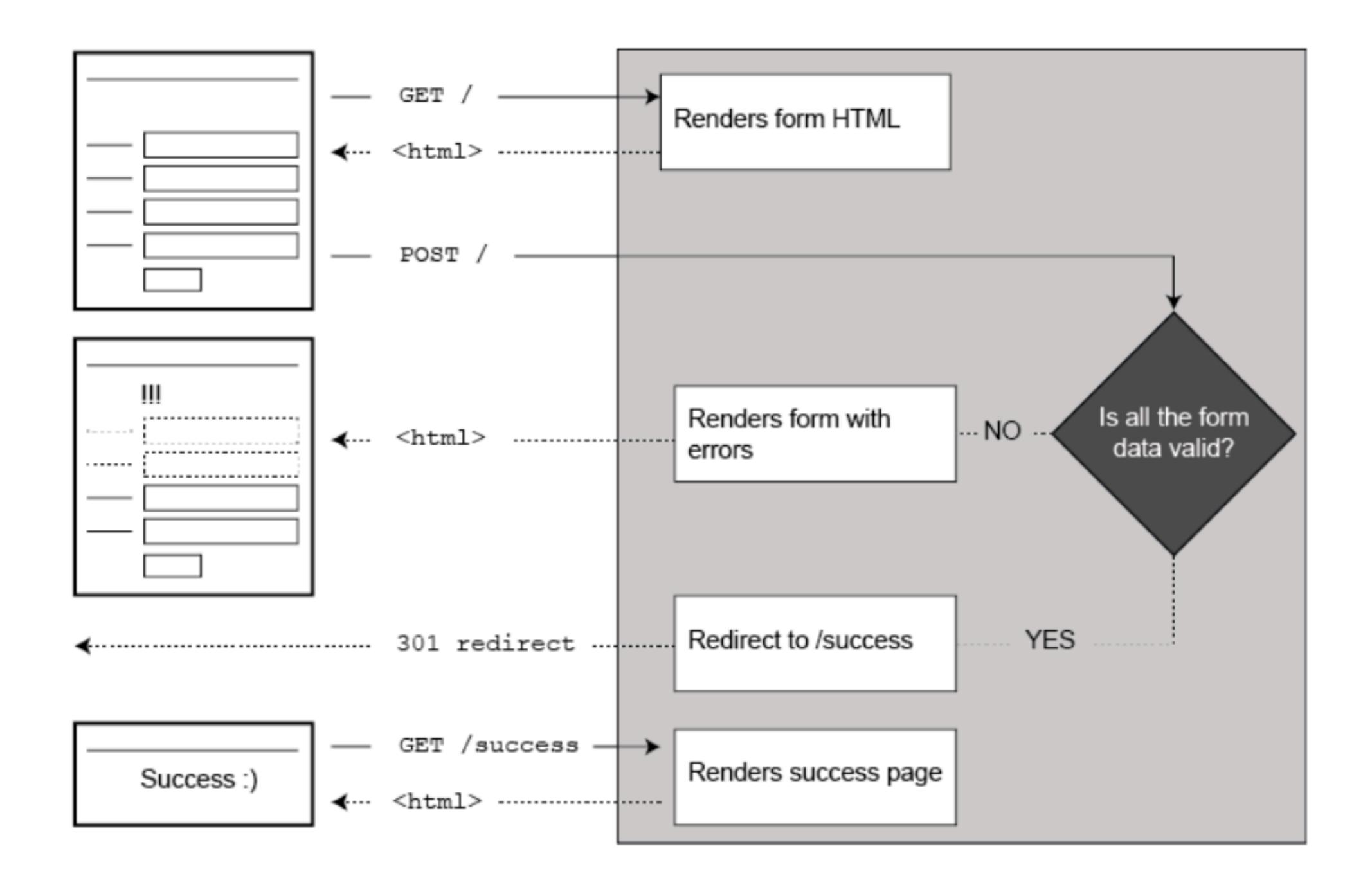
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<u>Agenda</u>

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



Potential Error
 Reporting
 Strategy

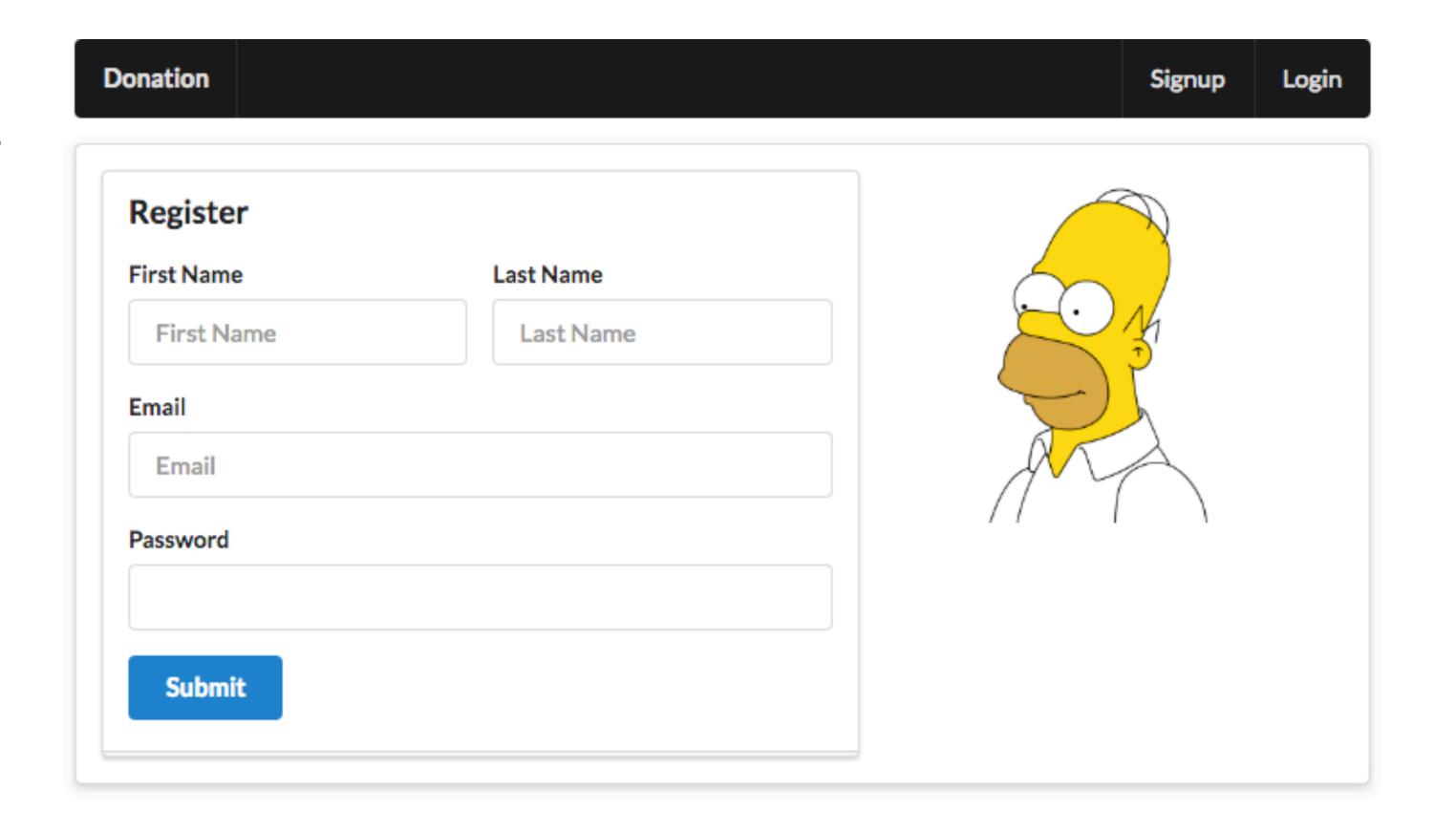


npm install joi

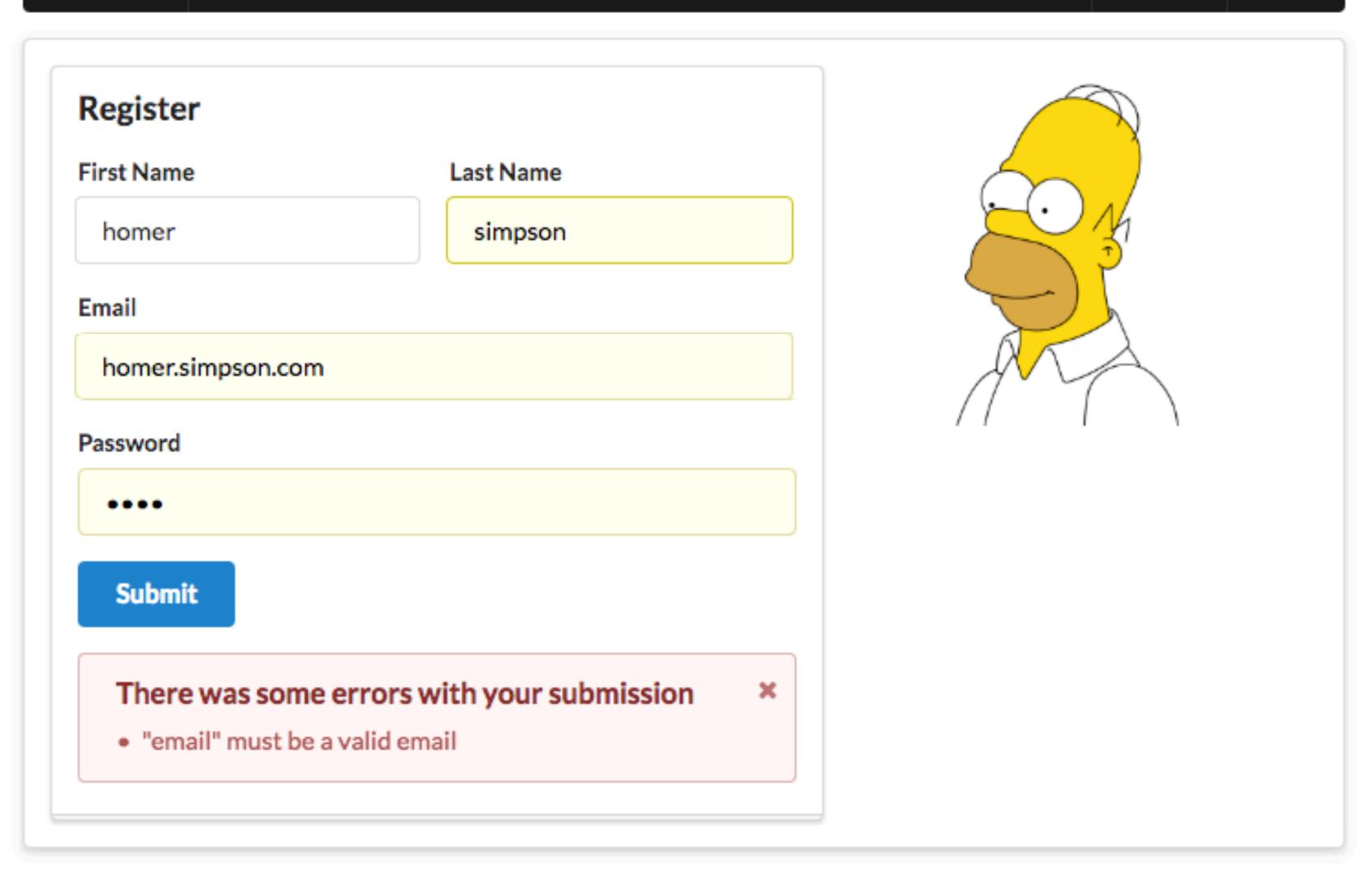
Install Joi

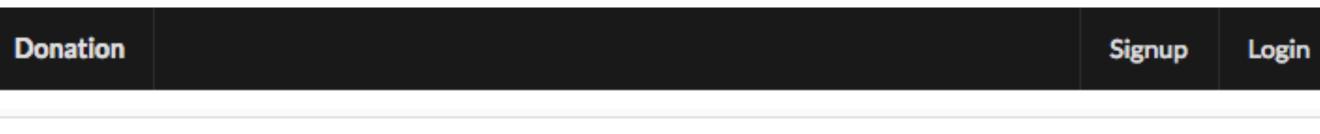
```
"name": "donation-web",
"version": "1.0.0",
"description": "",
"main": "index.js",
"scripts": {
  "test": "echo \"Error: no test specified\" && exit 1"
},
"author": "",
"license": "ISC",
"dependencies": {
 "boom": "^7.3.0",
  "dotenv": "^6.2.0",
  "handlebars": "^4.0.12",
  "hapi": "^18.0.0",
  "hapi-auth-cookie": "^9.1.0",
  "inert": "^5.1.2",
  "joi": "^14.3.1",
  "mongoose": "^5.4.7",
  "vision": "^5.4.4"
"devDependencies": {
  "prettier": "^1.16.0"
"prettier": {
  "singleQuote": true,
  "printWidth": 120
```

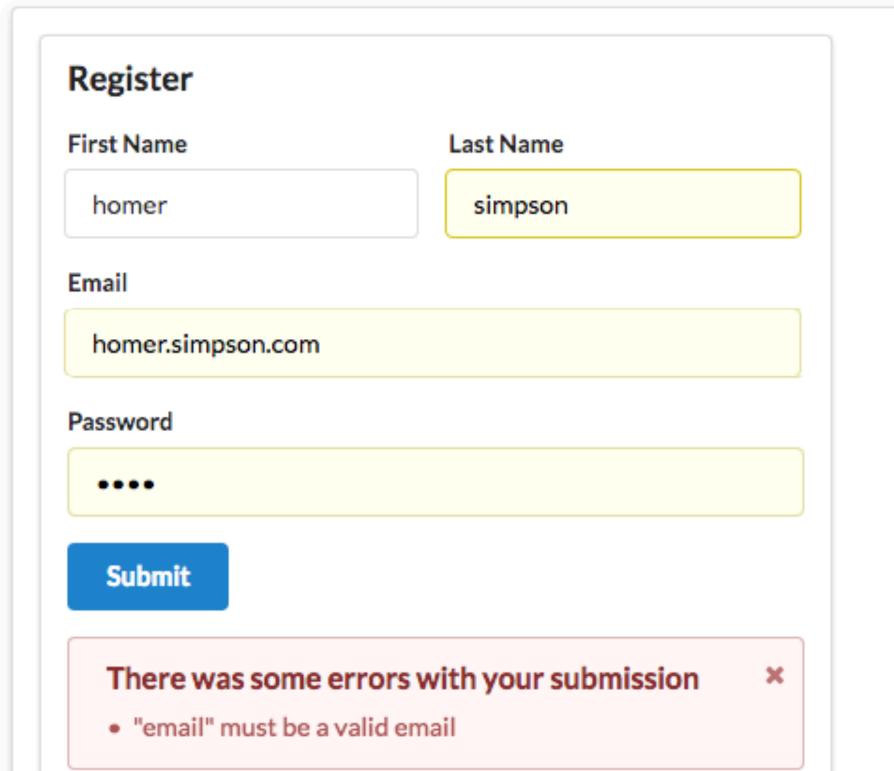
Joi in Donation



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







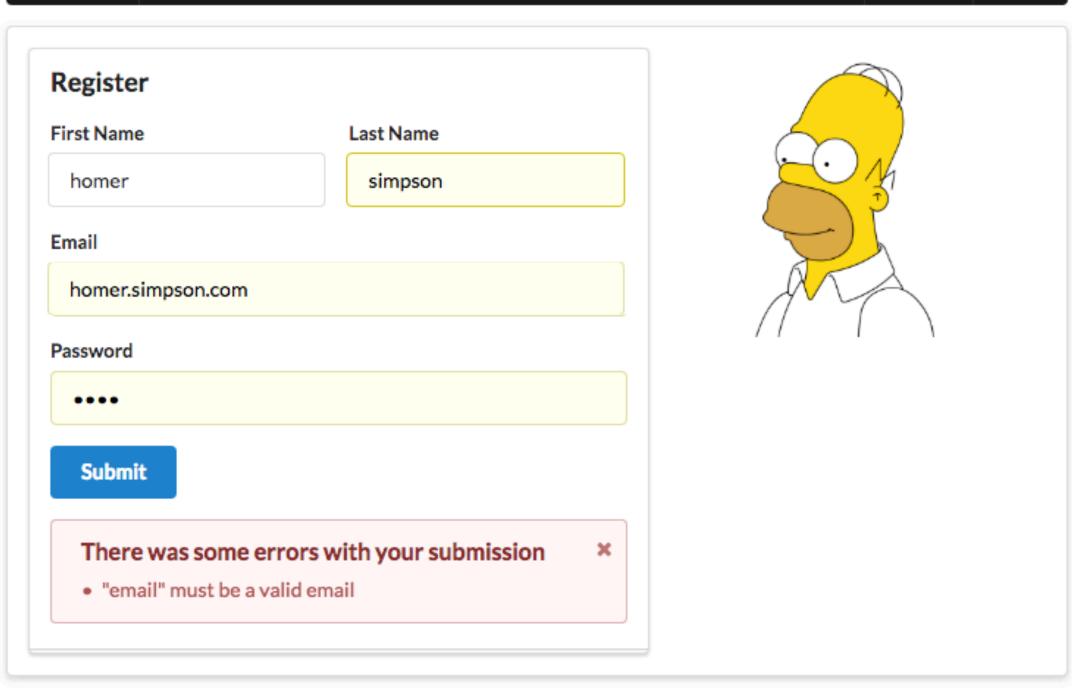


error.hbs

signup.hbs

```
{{> welcomemenu }}
<section class="ui raised segment">
  <div class="ui grid">
    <div class="ui ten wide column">
      <div class="ui stacked fluid form segment">
        <form action="/register" method="POST">
          <h3 class="ui header">Register</h3>
          <div class="two fields">
            <div class="field">
              <label>First Name</label>
              <input placeholder="First Name" type="text" name="firstName">
            </div>
            <div class="field">
              <label>Last Name</label>
              <input placeholder="Last Name" type="text" name="lastName">
            </div>
          </div>
          <div class="field">
            <label>Email</label>
            <input placeholder="Email" type="text" name="email">
          </div>
          <div class="field">
            <label>Password</label>
            <input type="password" name="password">
          </div>
          <button class="ui blue submit button">Submit</button>
        </form>
        {{> error }}
      </div>
    </div>
    <aside class="ui five wide column">
      <img src="images/homer3.png" class="ui medium image">
    </aside>
  </div>
</section>
```





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, now validated

signup handler

```
signup: {
  auth: false,
 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);
  handler: async function(request, h) {
      const payload = request.payload;
      let user = await User.findByEmail(payload.email);
      if (user) {
        const message = 'Email address is already registered';
        throw new Boom(message);
      const newUser = new User({
        firstName: payload.firstName,
        lastName: payload.lastName,
        email: payload.email,
        password: payload.password
      user = await newUser.save();
      request.cookieAuth.set({ id: user.id });
      return h.redirect('/home');
    } catch (err) {
      return h.view('signup', { errors: [{ message: err.message }] });
```