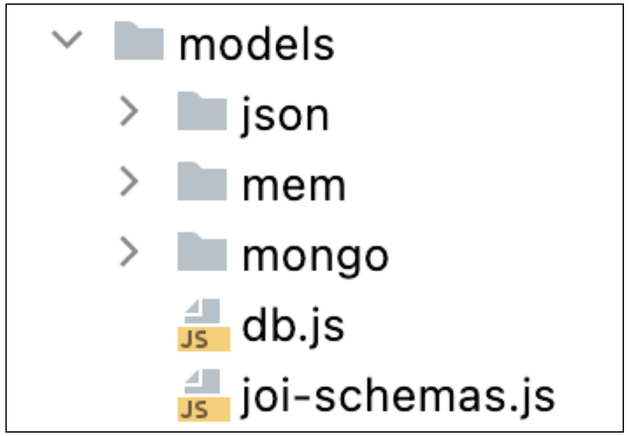
JOI Schemas

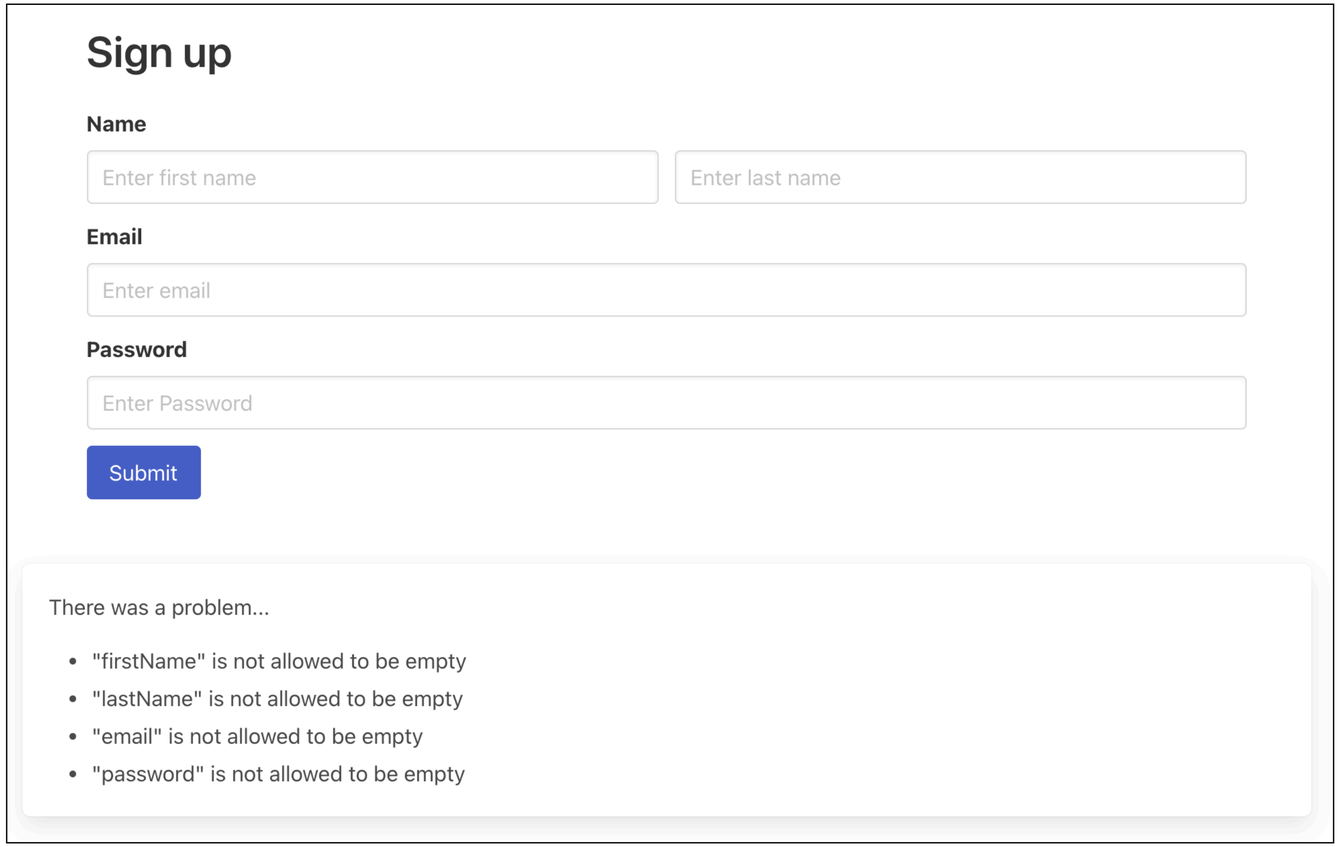
Full Stack Web Development

More Joi Schemas

joi-schemas.js

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





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

accounts-controller.js

```
...
import { UserSpec, UserCredentialsSpec } from "../models/joi-schemas.js";
...

  login: {
    auth: false,
    validate: {
      payload: UserCredentialsSpec,
      options: { abortEarly: false },
      failAction: function (request, h, error) {
        return h.view("login-view", { title: "Log in error", errors: error.details }).takeover().code(400);
      },
    },
    handler: async function (request, h) {
      const { email, password } = request.payload;
      const user = await db.userStore.getUserByEmail(email);
      if (!user || user.password !== password) {
        return h.redirect("/");
      }
      request.cookieAuth.set({ id: user._id });
      return h.redirect("/dashboard");
    },
  },
```

```
export const PlaylistSpec = {
  title: Joi.string().required(),
};
```

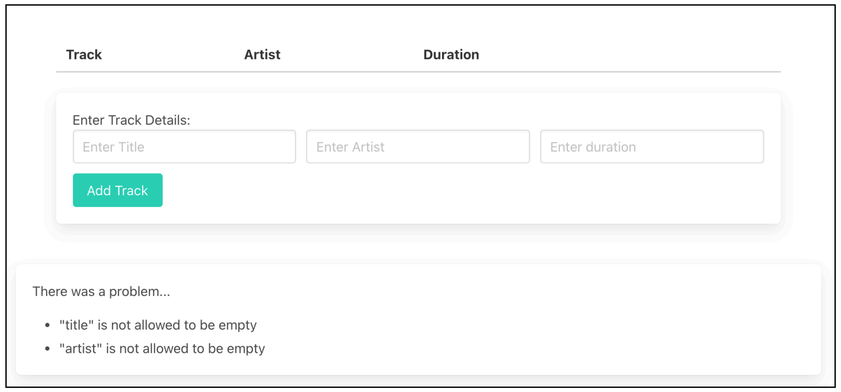
dashboard-controller.js

The addPlaylist action:

```
...
import { PlaylistSpec } from "../models/joi-schemas.js";
...

  addPlaylist: {
    validate: {
      payload: PlaylistSpec,
      options: { abortEarly: false },
      failAction: function (request, h, error) {
        return h.view("dashboard-view", { title: "Add Playlist error", errors: error.details }).takeover().code(4
      },
    },
    handler: async function (request, h) {
      const loggedInUser = request.auth.credentials;
      const newPlayList = {
        userid: loggedInUser._id,
        title: request.payload.title,
      };
      await db.playlistStore.addPlaylist(newPlayList);
      return h.redirect("/dashboard");
    },
  },
```

```
export const TrackSpec = {
  title: Joi.string().required(),
  artist: Joi.string().required(),
  duration: Joi.number().allow("").optional(),
};
```

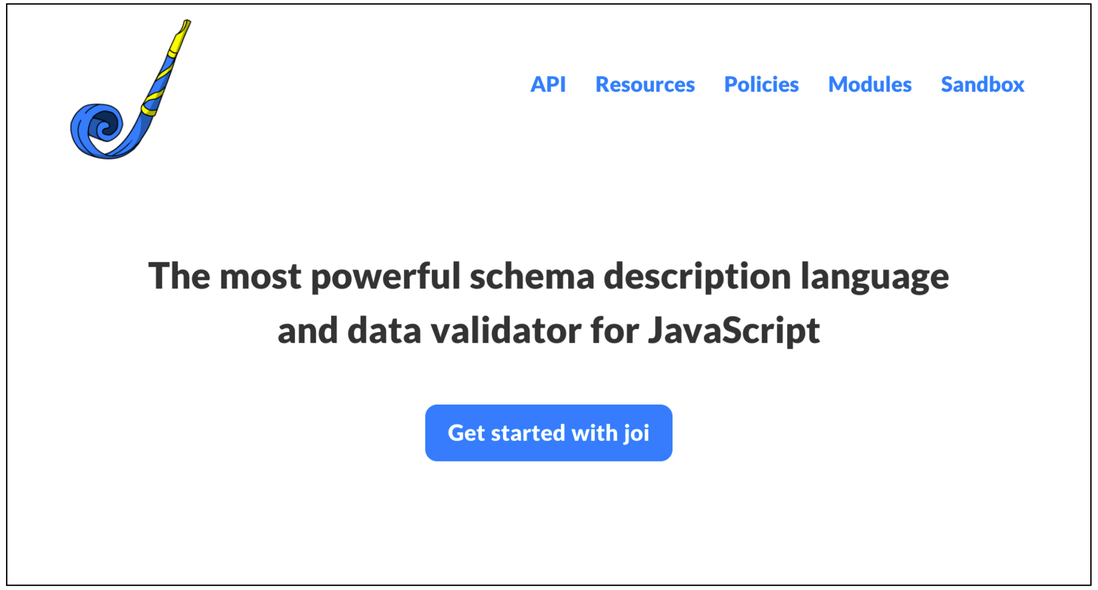


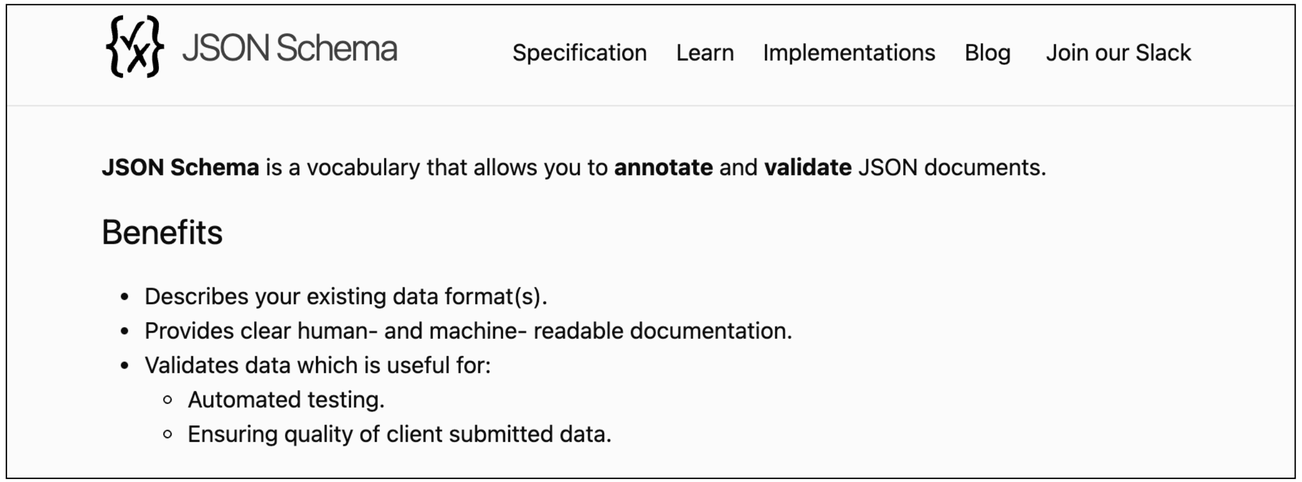
playlist-controller.js

And the addTrack action:

```
...
import { TrackSpec } from "../models/joi-schemas.js";
...

  addTrack: {
    validate: {
      payload: TrackSpec,
      options: { abortEarly: false },
      failAction: function (request, h, error) {
        return h.view("playlist-view", { title: "Add track error", errors: error.details }).takeover().code(400);
      },
    },
    handler: async function (request, h) {
      const playlist = await db.playlistStore.getPlaylistById(request.params.id);
      const newTrack = {
        title: request.payload.title,
        artist: request.payload.artist,
        duration: Number(request.payload.duration),
      };
      await db.trackStore.addTrack(playlist._id, newTrack);
      return h.redirect(`/playlist/${playlist._id}`);
    },
  },
```





- Joi's biggest advantage is its usability. It's easy to use, easy to extend, and it has the full power of JavaScript.
- The downside is that if you want to reuse your validation logic on the frontend and the backend, your only choice of language on the backend is node.

- The big win you get from JSON Schema is that it's cross platform. JSON Schema validator implementations exist in every major programming language. Write once, validate anywhere.
- The downside is that because it's cross platform, it's also somewhat limited in what it can do. It's purposely kept simple enough so that it's not too difficult to implement in any programming language.

https://stackoverflow.com/questions/54228539/why-is-joi-more-popular-than-ajv

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