

Take 2 APIs 103

Recap

- Promise
- CRUD
- REST
- HTTP Verbs

Systems Design 101

- Which systems make up our backend?
- A HTTP server
- A database
- Previously have used json-server
- It provides an API and stores its data in a file: db.json
- Let's change *one* component. Let's build json-server ourselves

Routing

- Which routes must we <u>serve</u> to our application?
- CRUD!
- POST /resources
- GET /resources
- GET /resource/<id>
- PUT /resource/<id>
- DELETE /resource/<id>

Express.js / Package Management

No frills.

```
$ bun add express

# or

$ npm init
$ npm install express
```

Express.js / "Hello World"

```
1 import express from "express";
3 const app = express();
4 const port = 8080;
  app.get("/", (req, res) => {
    res.send("Hello World!");
8 });
10 app.listen(port, () => {
console.log(`Listening on port ${port}...`);
12 });
```

Express.js / MVP

```
1 import express from "express";
2 import db from "./db.json";
4 const app = express();
5 const port = 8080;
  app.get("/users", (req, res) => {
    res.json(db["users"]);
9 });
10
11 app.listen(port, () => {
```

Express.js / To Be Continued

- Implement CRUD for users
- Use node:fs or import
- Implement dynamic resources
- Put it online (Vercel or Netlify)