

# Take 2 APIs 102

# Recap

#### HTTP requests from the terminal

- requestb.in website to show you HTTP requests that you make
- curl -> "See URL"

```
# Make a HTTP request to
# https://en9okehos12j7.x.pipedream.net/
$ curl -H 'Accept: application/json' \
   https://en9okehos12j7.x.pipedream.net/
{"success":true}
```

#### **REST**

- One convention of doing APIs is called RESTful APIs
- All RESTful APIs work the same, they revolve around a Resource like
  - BlogPost, Comment, User, Image, Appointment
- They use paths, called *API endpoints* to address resources (by id) or *collections* 
  - /blog\_posts,/comments/5,/appointments,/user/1/images/4
- They use HTTP verbs to determine actions with resources
  - List all blog posts
  - Show comment with id 5
  - Add a new appointment

#### **RESTful APIs use CRUD**

Example resource: BlogPost

- Create a BlogPost
- Read a BlogPost
- Update a BlogPost
- Delete a BlogPost

## CRUD & HTTP verbs ("methods")

- Create -> HTTP POST
- Read -> HTTP GET (default)
- Update -> HTTP PUT or PATCH
- Delete -> HTTP DELETE

#### Putting it all together

- Create a new blog post: POST /blog\_posts
- Show all comments: GET /comments
- Show the comment with the id 5: GET /comments/5
- Update the comment with the id 5: PUT /comments/5
- Delete the comment with the id 5: DELETE /comments/5

#### Try it out, start a JSON server

https://github.com/typicode/json-server

```
$ npx json-server db.json
$ curl http://localhost:3000/posts
    "id": "1",
    "title": "a title",
    "views": 100
```

#### Adding a post

```
$ curl -X POST -H "Content-Type: application/json" \
   -d '{ "title": "new post" }' localhost:3000/posts

{
   "id": "d64d",
   "title": "new post"
}
```

```
$ curl http://localhost:3000/posts
    "id": "1",
    "title": "a title",
    "views": 100
    "id": "d64d",
    "title": "new post"
```

## Using verbs with fetch

```
const response = await fetch("https://example.org/post", {
  method: "POST",
  // ...
});
```

- Use json server to build a contacts API.
- Adapt the db.json to contain 'contacts' instead of 'posts' etc.
- Build a small app to list all contacts and add a new one.