

# Outline

## 1 Reintroducing Hypermedia

- 1.1 What Is Hypermedia?
- 1.2 Why Use Hypermedia?
- 1.3 A Hypermedia Comeback?
- 1.4 Hypermedia-Oriented Javascript Libraries
- 1.5 REST
- 1.6 When Should You Use Hypermedia?
- 1.7 When Shouldn't You Use Hypermedia?
- 1.8 Summary

## 2 Creating A Web 1.0 Hypermedia Application

- 2.1 Contact.app: A Simple Web 1.0-style Web Application
- 2.2 Which Stack Should We Use?
- 2.3 Contact.App Functionality
- 2.4 Listing Contacts
- 2.5 Adding Contacts
- 2.6 Viewing Contact Details
- 2.7 Editing Contacts
- 2.8 Deleting Contacts
- 2.9 Searching Contacts
- 2.10 Summary

## 3 Extending HTML As Hypermedia

- 3.1 The Shortcomings of Plain HTML
- 3.2 htmx: Extending HTML as a Hypermedium
- 3.3 riggering HTTP Requests
- 3.4 Targeting Other Elements
- 3.5 Passing Request Parameters
- 3.6 History Support
- 3.7 Summary

## Improving Our Hypermedia Application

- Adding AJAX Navigation
- Deleting Contacts
- Inline Validation of Emails
- Inline Adding of Contacts

## Summary

### Advanced UX Patterns With Hypermedia

- a. Bulk Editing Contacts
- b. Infinite Scroll of Contacts
- c. Lazy Loading Counts
- d. Active Search of Contacts
- e. Summary

### Hyperview: A Mobile Hypermedia

Who says hypermedia is only for the web?

Getting Started with Hyperview

HXML vs HTML

Navigation

Pull to Refresh

Tabs

Forms

Advanced Forms

Event Dispatch

Case Studies

### Front-End Scripting In Hypermedia Applications

Are Scripts Still allowed? (Yes!)

Hypermedia-oriented Scripting

Hyperscript

Alpinejs

VanillaJS

Summary

### JSON Data APIs In Hypermedia Applications

Are JSON APIs Still allowed? (Yes!)

The Differing Characteristics of JSON and HTML/REST APIs

Separating Concerns: The Good Parts

Summary

### Advanced htmx

Web Sockets

Server Sent Events

Animations

Debugging

Security Concerns

Configuration

Understanding the event model

Hooking into events

Understanding the extension model

An example extension

Other Hypermedia-Oriented Javascript Libraries

Unpoly

Hotwire

jQuery

VanillaJS

Summary

Hypermedia: A Return To The Web's Roots

Trends in Software Development

Complexity Sells, Simplicity Endures

Summary

Appendix 1: A Review of Chapter 5 of Roy Fielding's Dissertation On The Web

Appendix 2: A Brief, Incomplete and Mostly Wrong History of The Web