

# Outline

## 1 Reintroducing Hypermedia

- 1.1 So, What Is Hypermedia?
- 1.2 Why Use Hypermedia?
- 1.3 REST
- 1.4 When Should You Use Hypermedia?
- 1.5 When Shouldn't You Use Hypermedia?
- 1.6 Summary

## 2 A Simple Web Application

- 2.1 A Simple Contact Management Web Application
- 2.2 A Brief Introduction to Flask & Our First Route
- 2.3 Contact.App Functionality
- 2.4 Summary

## 3 Extending HTML As Hypermedia

- 3.1 The Shortcomings of "Plain" HTML
- 3.2 Extending HTML as a Hypermedia with htmx
- 3.3 Triggering HTTP Requests
- 3.4 Targeting Other Elements
- 3.5 Swap Styles
- 3.6 Using Other Events
- 3.7 Passing Request Parameters
- 3.8 History Support
- 3.9 Summary

## 4 Putting Hypermedia Into Action

- 4.1 Installing htmx
- 4.2 Adding AJAX Navigation

#### 4.3 Deleting Contacts

#### 4.4 Next Steps: Validating Emails

#### 4.5 Another Improvement: Paging

#### 4.6 Summary

### 5 Advanced Hypermedia Patterns

#### 5.1 Active Search

#### 5.2 Lazy Loading

#### 5.3 Inline Delete

#### 5.3 Bulk Delete

#### 5.4 Summary

### 6 Hyperview: A Mobile Hypermedia

#### 6.1 State of Mobile App Development

#### 6.2 Hypermedia for Mobile Apps

#### 6.3 Introduction to HXML

#### 6.4 Summary

### 7 Building a Contacts App with Hyperview

#### 7.1 Setup

#### 7.2 Contacts screen

#### 7.3 Contact screen

#### 7.4 Extending the client

#### 7.5 One Backend, Multiple Hypermedia

#### 7.6 Summary

### 8 Client Side Scripting

#### 8.1 Scripting in Hypermedia-Driven Applications

#### 8.2 Scripting languages for the Web

#### 8.3 Using off-the-shelf components

---

## 8.4 Events and the DOM

## 8.5 Adding a Keyboard Shortcut for Focusing the Search Input With VanillaJS

## 8.6 Adding Support for Re-Ordering Contacts (No Scripting Needed!)

## 8.7 Adding Support for a Drop-Down with AlpineJS

## 8.8 Adding a Nicier Confirmation for Deleting Contacts With `_hyperscript`

## 8.9 Being Pragmatic

## 8.10 Summary

# 9 Data APIs & Hypermedia Driven Applications

## 9.1 Data APIs

## 9.2 Hypermedia APIs & Data APIs

## 9.3 Adding a JSON Data API To `Contact.app`

## 9.4 Summary

# 10 Creating A Dynamic Download UI

## 10.1 A Dynamic Archive UI

## 10.2 Polling

## 10.3 Smoothing Things Out: More On The `htmx` Swap Model

## 10.4 Dismissing The Download UI

## 10.5 Auto-Download

## 10.6 Summary

# 11 Developing With `htmx`

## a. 11.1 Getting Deeper Into `htmx`

## b. 11.2 `htmx` Attributes

## c. 11.3 Events

## d. 11.4 HTTP Requests & Responses

## e. 11.5 Updating Other Content

## f. 11.6 Debugging

g. 11.7 Security Considerations

h. 11.8 Configuring

i. 11.9 Summary

## 12 Other Hypermedia-Oriented Technologies

12.1 Unpoly

12.2 Hotwire

12.3 jQuery

12.4 VanillaJS

12.5 Summary

## 13 Conclusion

13.1 Hypermedia Reconsidered

13.3 Pausing, And Reflecting

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

---