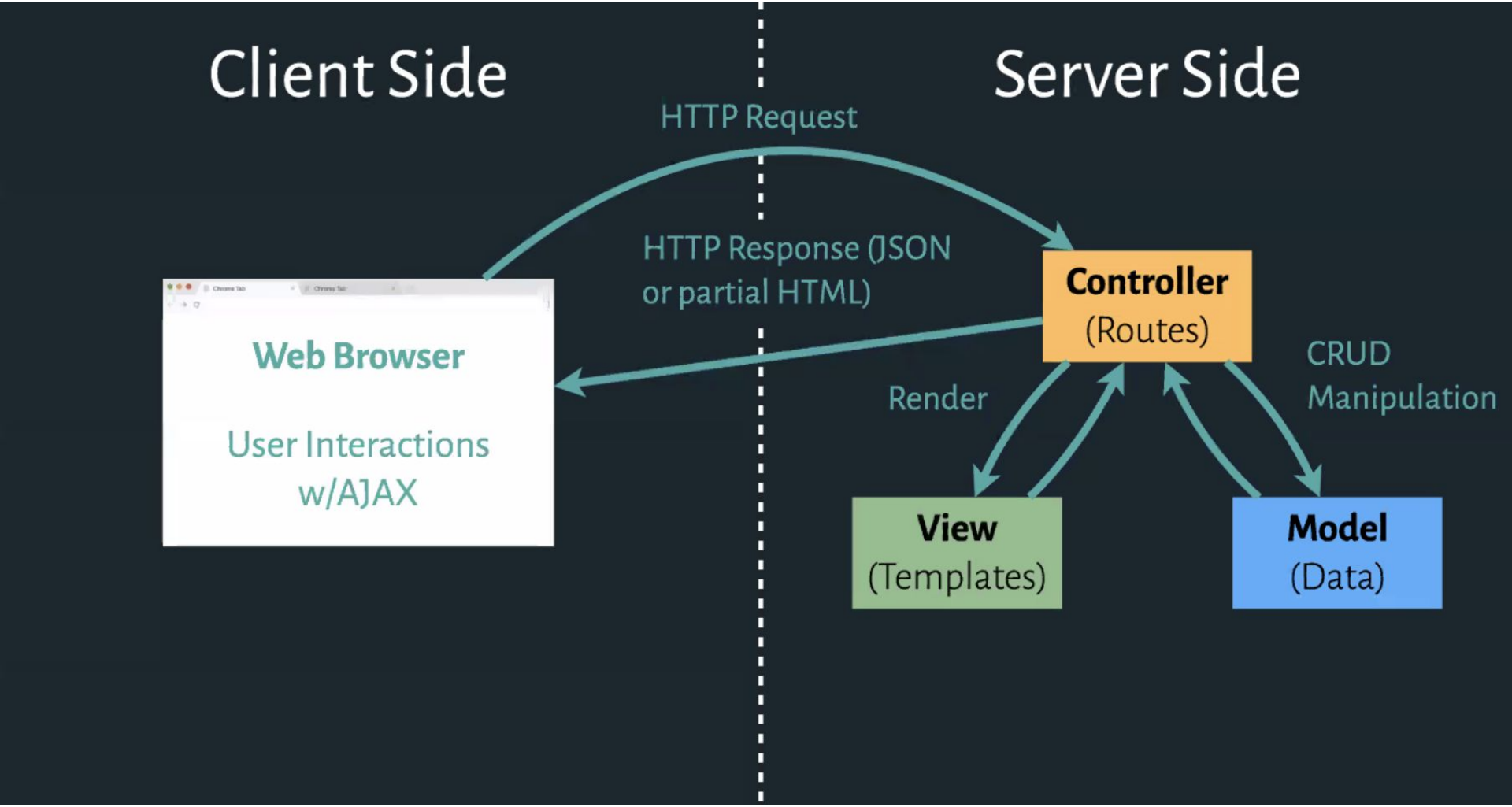
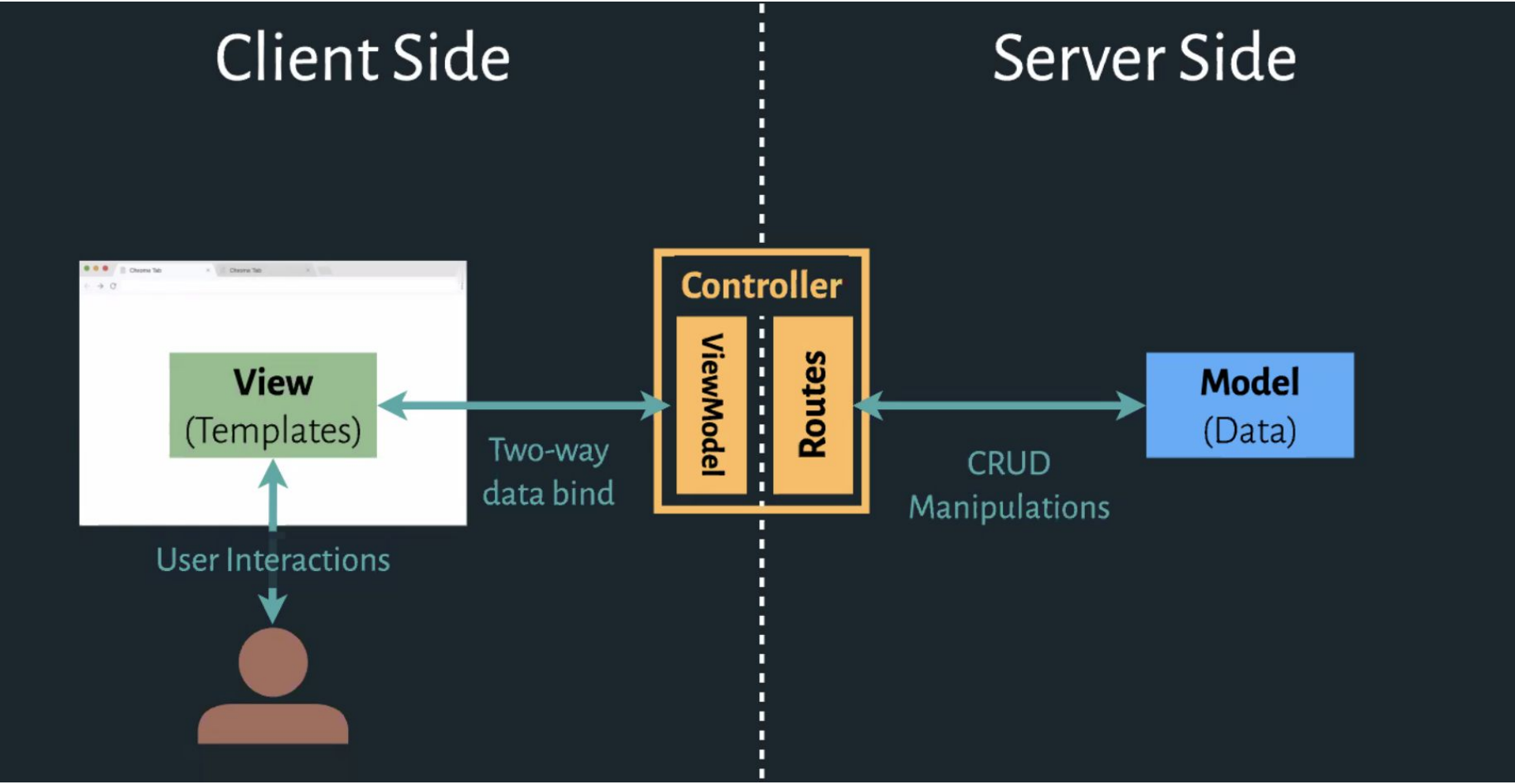
# Vue: Client-side Reactive Framework

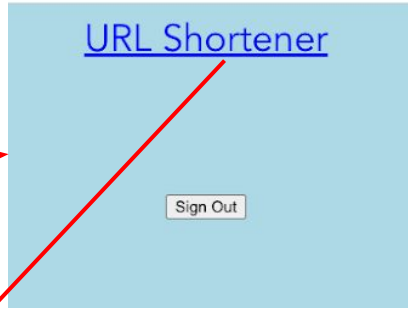
Recitation 9


Client Side
Server Side
HTTP Request
HTTP Response (JSON or partial HTML)
Web Browser
User Interactions w/AJAX
Controller (Routes)
Render
CRUD Manipulation
View (Templates)
Model (Data)


Client Side
Server Side
Controller
ViewModel
Routes
View
(Templates)
Model
(Data)
Two-way
data bind
CRUD
Manipulations
User Interactions

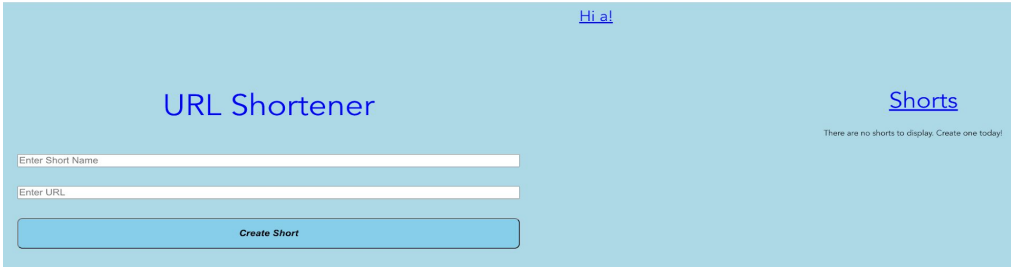
Unauthenticated Landing Page

Signed in as user "a"

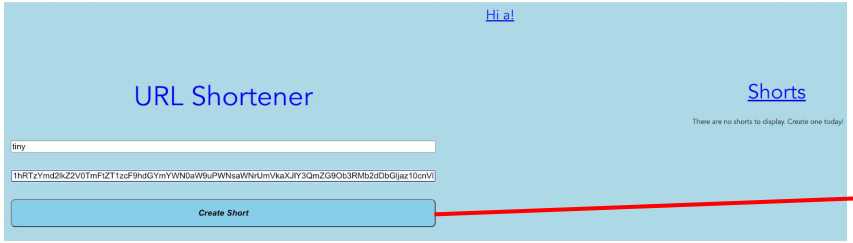



Redirected to main page by pressing URL Shortener

# Authenticated Landing Page




# Enter New Short




# Shorts list updated

# Helpful Questions

What pages do I need?

How can I break their contents into components?

# Main Page

Sign In/Sign Up

# URL Shortener

Enter Short Name

Enter URL

**Create Short**

## Shorts

### abc

Creator ID: 1

Short URL: http://localhost:3000/abc

https://www.amazon.com/Daily-Portable-LLC-Hands-HighFive/dp/B07HR8P337/ref=sr_1_2_sspa?dchild=1&keywords=tiny+hands&qid=1600971426&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExVTRLOENEQVNZU09YJmVuY3J5cHRlZElkPUExMDIzMDEzTVo3VVpYUjQxM0dKJmVuY3J5cHRlZEFkSWQ9QTAxNTk1ODlBWklwQ1I5T1hRTzYmd2lkZ2V0TmFtZT1zcF9hdGYmYWN0aW9uPWNsaWNrUmVkaXJlY3QmZG9Ob3RMb2dDbGljaz10cnVl

New Url | Update | Delete

### fdsafs

Creator ID: 2

Short URL: http://localhost:3000/fdsafs

Main.vue

Sign In/Sign Up

# URL Shortener

Enter Short Name

Enter URL

**Create Short**

## Shorts

### abc

Creator ID: 1

Short URL: http://localhost:3000/abc

https://www.amazon.com/Daily-Portable-LLC-Hands-HighFive/dp/B07HR8P337/ref=sr_1_2_sspa?dchild=1&keywords=tiny+hands&qid=1600971426&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExVTRLOENEQVNZU09YJmVuY3J5cHRlZElkPUExMDIzMDEzTVo3VVpYUjQxM0dKJmVuY3J5cHRlZEFkSWQ9QTAxNTk1ODlBWklwQ1I5T1hRTzYmd2lkZ2V0TmFtZT1zcF9hdGYmYWN0aW9uPWNsaWNrUmVkaXJlY3QmZG9Ob3RMb2dDbGljaz10cnVl

New Url | Update | Delete

### fdsafs

Creator ID: 2

Short URL: http://localhost:3000/fdsafs

Main.vue

Navbar.vue

Sign In/Sign Up

CreateShortForm.vue

# URL Shortener

Enter Short Name

Enter URL

**Create Short**

ShortList.vue

# Shorts

## abc

Creator ID: 1

Short URL: http://localhost:3000/abc

https://www.amazon.com/Daily-Portable-LLC-Hands-HighFive/dp/B07HR8P337/ref=sr_1_2_sspa?dchild=1&keywords=tiny+hands&qid=1600971426&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExVTRLOENEQVNZU09YJmVuY3J5cHRlZElkPUExMDIzMDEzTVo3VVpYUjQxM0dKJmVuY3J5cHRlZEFkSWQ9QTAxNTk1ODlBWklwQ1I5T1hRTzYmd2lkZ2V0TmFtZT1zcF9hdGYmYWN0aW9uPWNsaWNrUmVkaXJlY3QmZG9Ob3RMb2dDbGljaz10cnVl

New Url | Update | Delete

## fdsafs

Creator ID: 2

Short URL: http://localhost:3000/fdsafs

Main.vue

Navbar.vue

Sign In/Sign Up

CreateShortForm.vue

URL Shortener

Enter Short Name

Enter URL

Create Short

ShortList.vue

Shorts

ShortListItem.vue

Creator ID: 1

Short URL: http://localhost:3000/abc

https://www.amazon.com/Daily-Portable-LLC-Hands-HighFive/dp/B07HR8P337/ref=sr_1_2_sspa?dchild=1&keywords=tiny+hands&qid=1600971426&sr=8-2-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUExVTRLOENEQVNZU09YJmVuY3J5cHRlZElkPUExMDIzMDEzTVo3VVpYUjQxM0dKJmVuY3J5cHRlZEFkSWQ9QTAxNTk1ODlBWklwQ1I5T1hRTzYmd2lkZ2V0TmFtZT1zcF9hdGYmYWN0aW9uPWNsaWNrUmVkaXJlY3QmZG9Ob3RMb2dDbGljaz10cnVl

New Url

Update

Delete

ShortListItem.vue

Creator ID: 2

Short URL: http://localhost:3000/fdsafs

# User Page

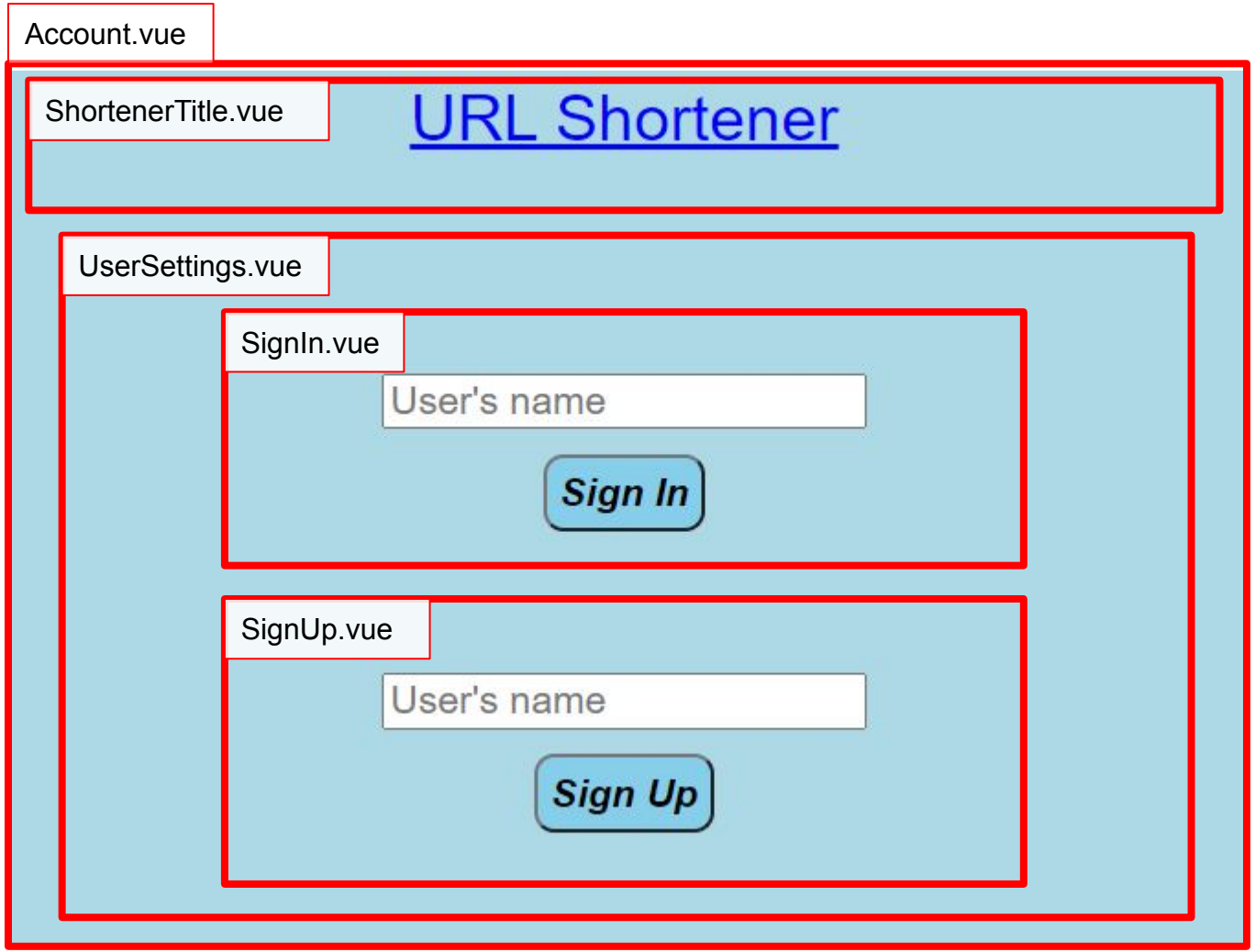
# URL Shortener

User's name

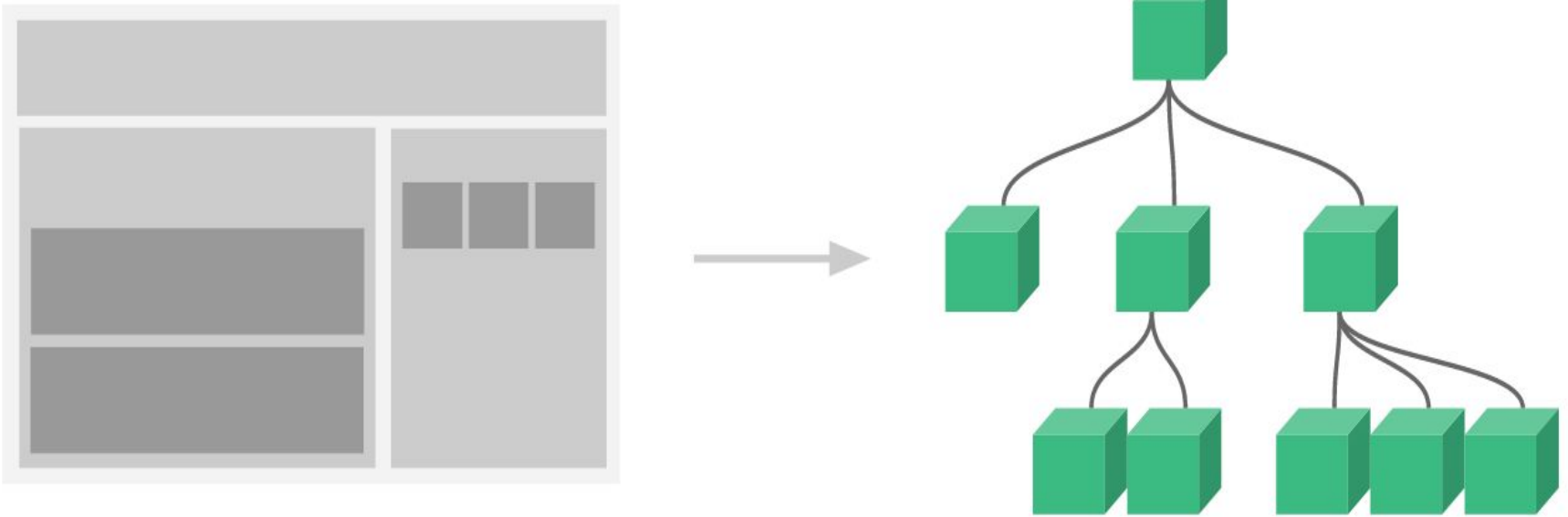
Sign In

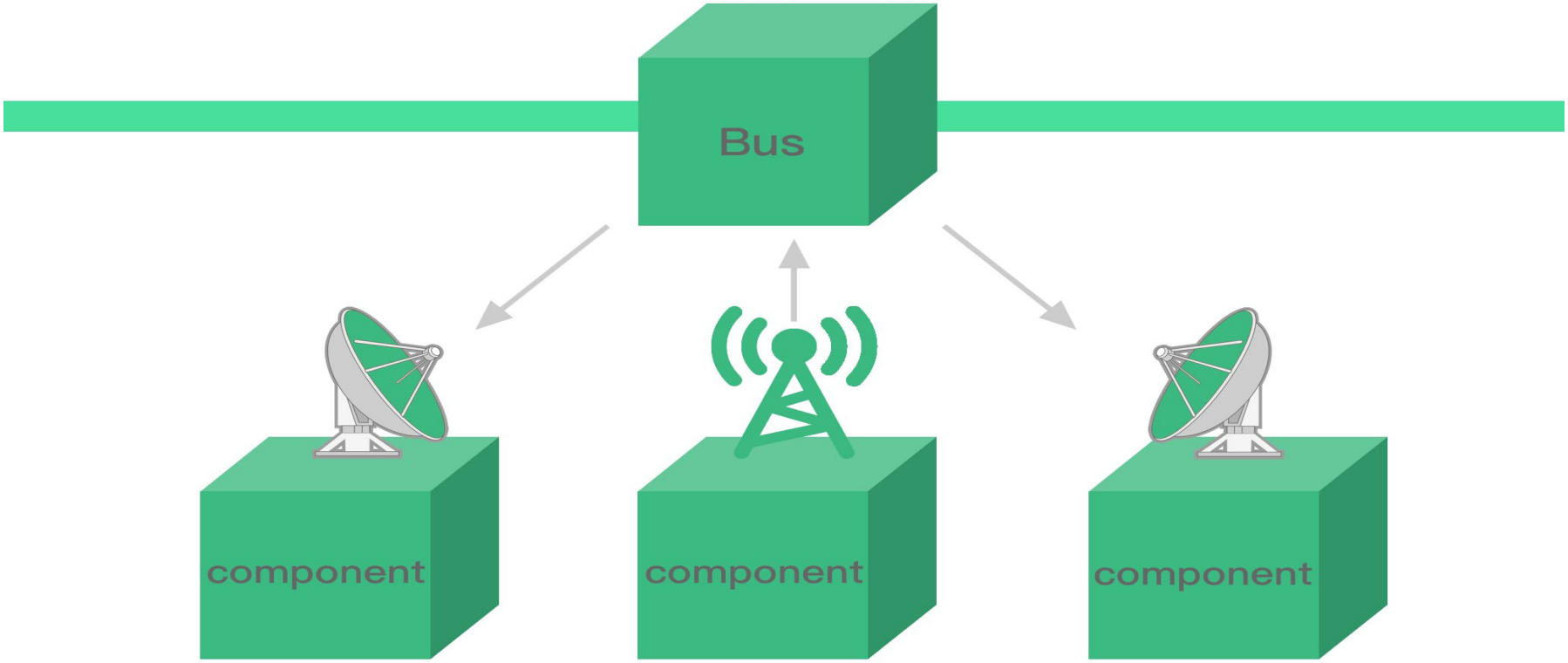
User's name

Sign Up

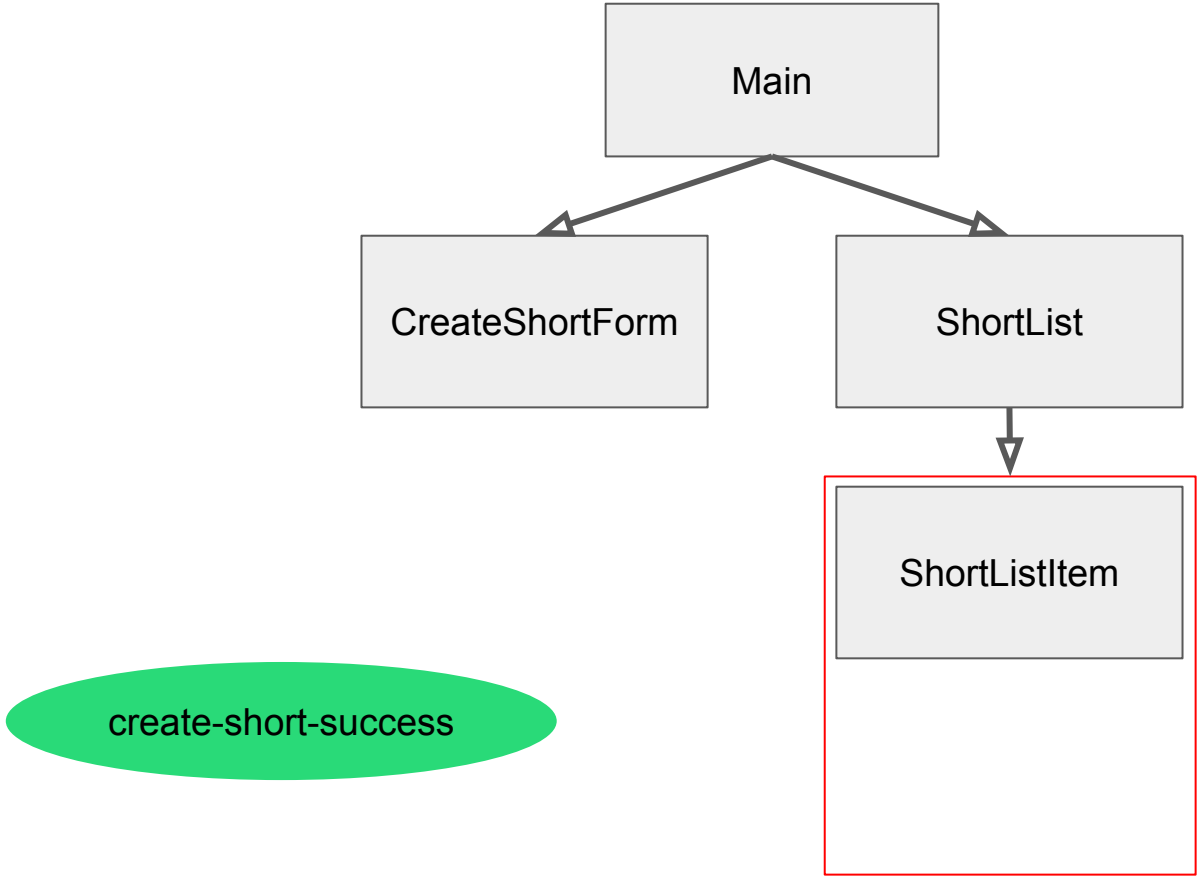

Account.vue
ShortenerTitle.vue
URL Shortener
UserSettings.vue
SignIn.vue
User's name
Sign In
SignUp.vue
User's name
Sign Up

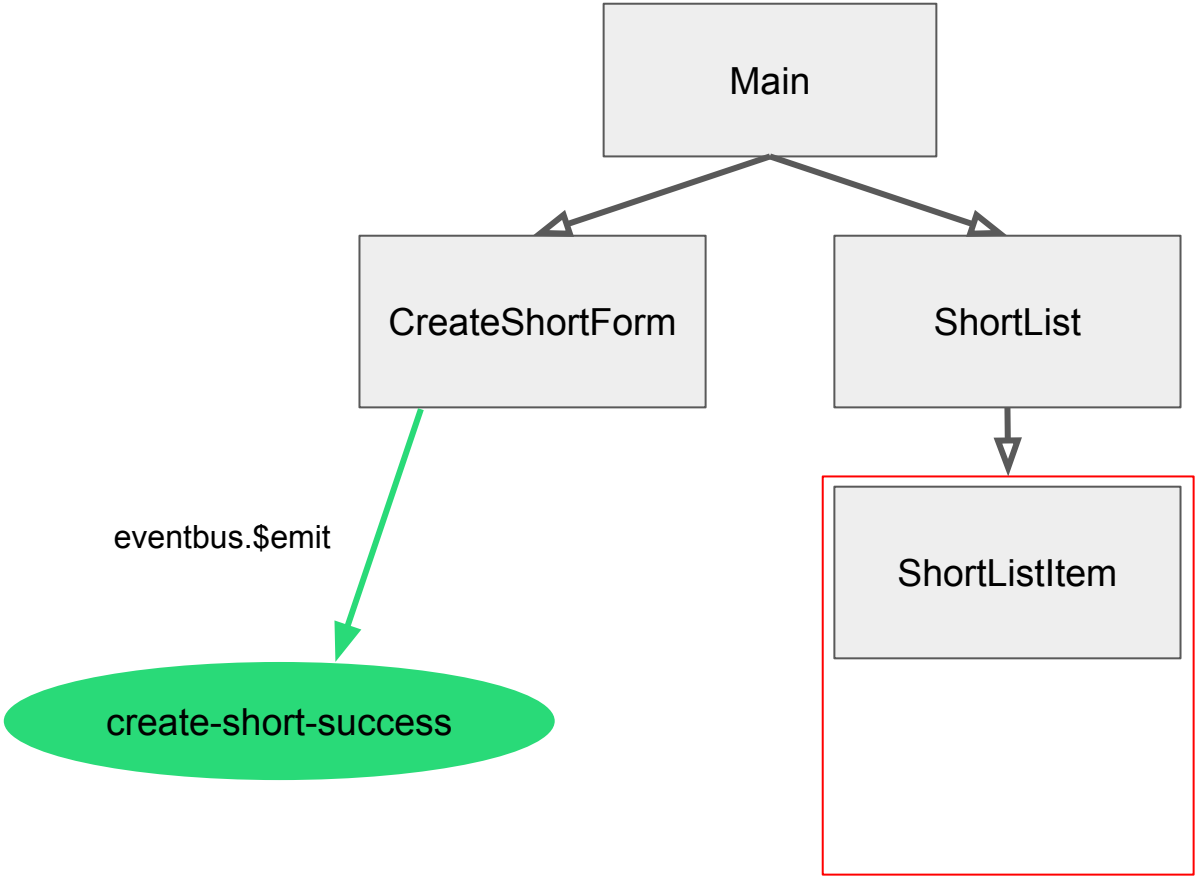
# Code Structure

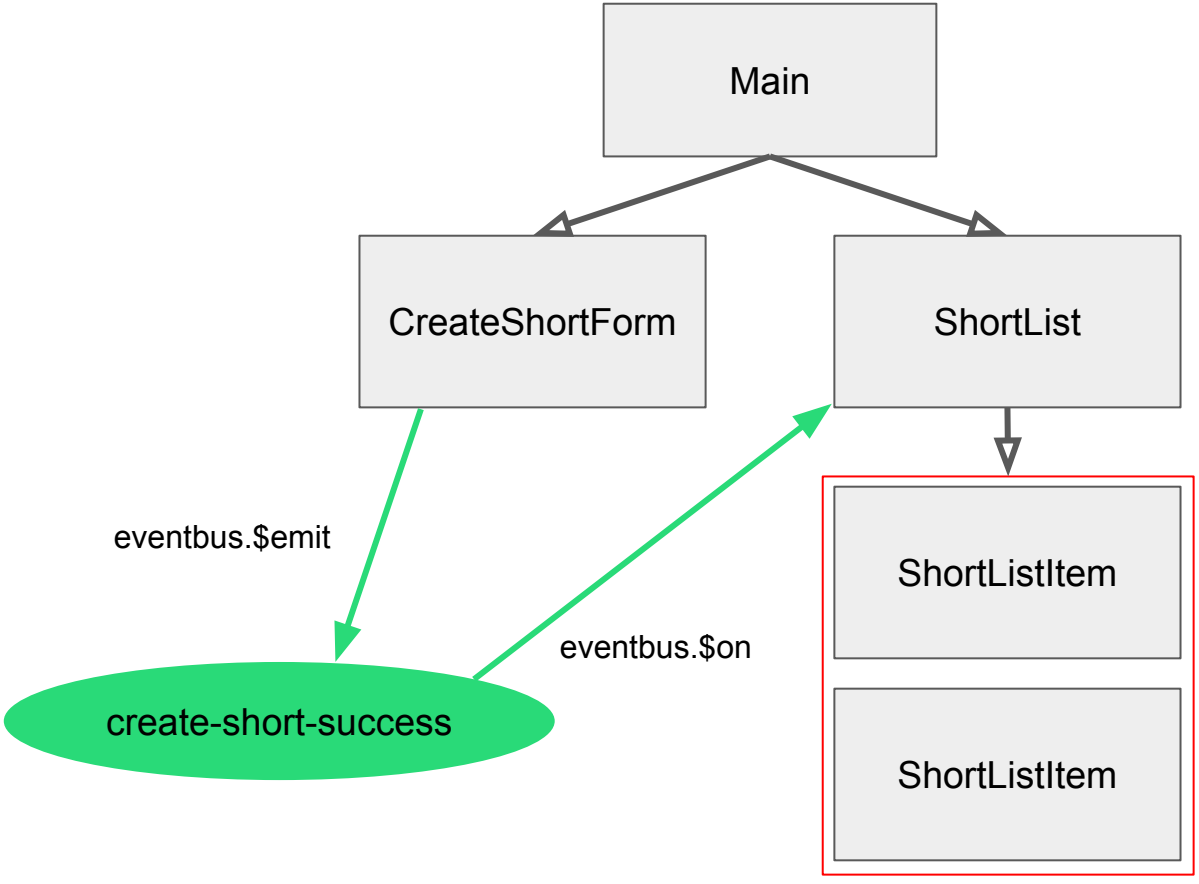





Event Bus


Main
CreateShortForm
ShortList
ShortListItem
create-short-success


Main
CreateShortForm
ShortList
eventbus.$emit
ShortListItem
create-short-success


Main
CreateShortForm
ShortList
eventbus.$emit
eventbus.$on
create-short-success
ShortListItem
ShortListItem