Overview

- CRUD and HTTP VERBS
- Naming Paths
 - Why follow convention?
- "RESTful", a cruddy story

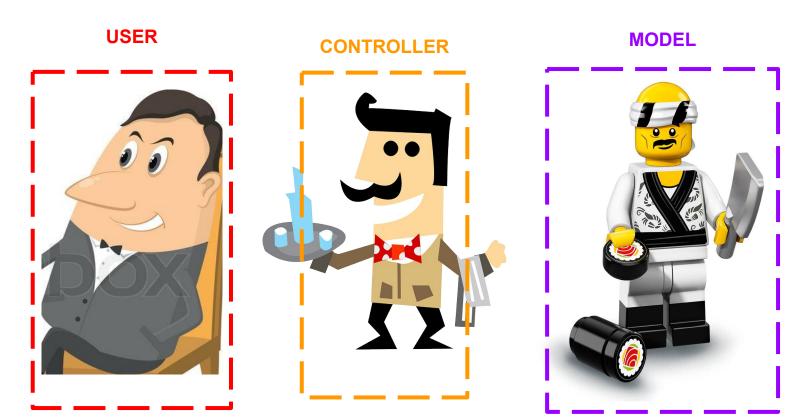
HTTP Verbs and CRUD

- GET READ
- POST CREATE
- PUT UPDATE Change an entire row
- PATCH UPDATE Change a single column
- DELETE DELETE

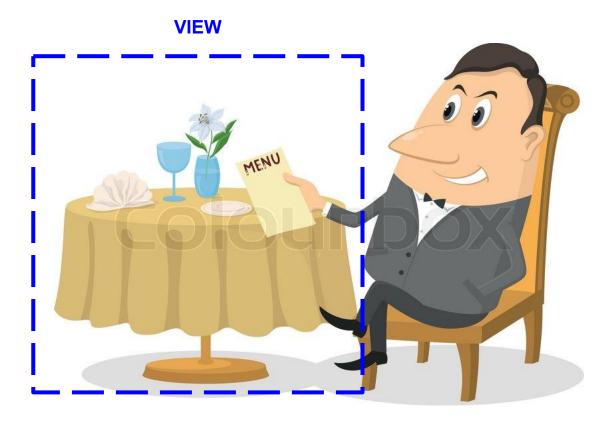


Task complete!

RESTful, a cruddy story - cast of characters



RESTful, a cruddy story - notable props



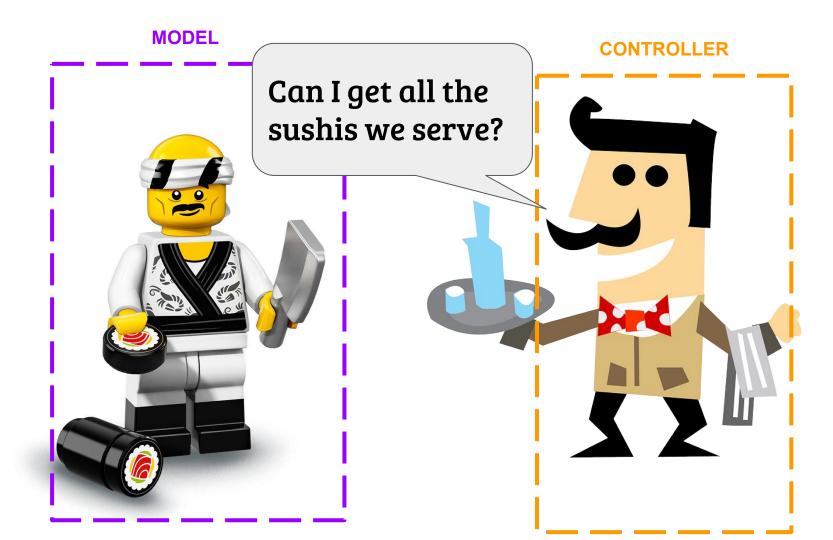
I want to see a menu of all the sushi I can order!

USER



1. Show guest a list of all the sushis we have

Verb	URI	Controller Method	erb/redirect
?	?	?	?



FIND ALL ROWS IN DATABASE

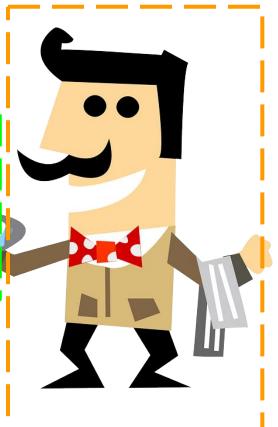


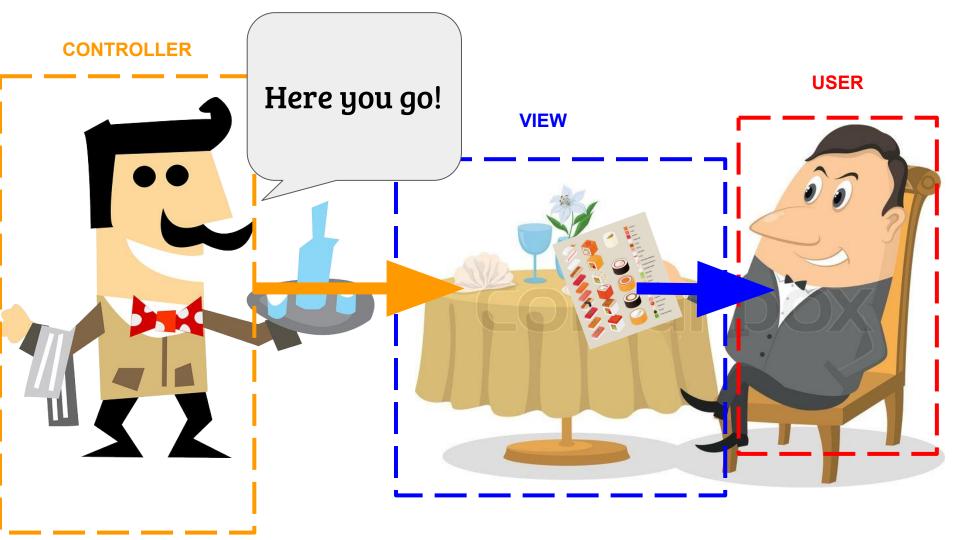




RETURN AS INSTANCES



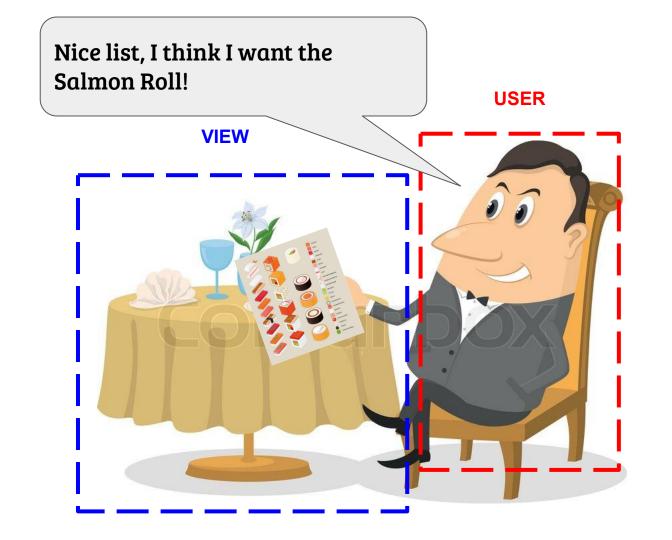




Task Complete

1. Show guest a list of all the sushis we have

Verb	URI	Controller Method	erb/redirect
get	/sushis	get '/sushis'	erb :index



- 1. Tell Chef which roll the guest wants to see
- 2. Chef gets the ready-made roll out of the fridge3. Bring the roll to the guest

Verb	URI	Controller Method	erb/redirect
?	?	?	?

CONTROLLER

DATA
Welcome To B

Salmon

Welcome To R.K. Sushi (GRATUITY WILL BE APPLIED FOR A PARTY OF 5 OR MORE.) * SUBSTITUTE SUBJECT TO EXTRA CHARGE Number Sashimi (5pcs) \$7.00 Qty \$6 Rolls Eel Roll Albacore Salmon Shrimp Crunch Roll Shrimp Tempura Roll Tilapia Snow Ball Roll Tuna Tuna Tataki Spicy Tuna Roll Yellow Tail Spicy Yellowtail Roll Nigiri (2pcs) \$4.00 Qty Spider Roll \$7 Rolls Albacore Salmon Roe Qty Ebi Stick Crab Fire Cracker Roll Eel Pink Roll Surf Clam Try This Roll Tamago Volcano Roll Inari Tilapia Yellow Tail Special Roll Mackerel Tuna \$8 Rolls Masago Tuna Tataki Albacore Special Roll Octopus Yellow Tail

Hillcrest Roll

VIEW

I want SALMON!

USER



Excellent choice.

Can you get me the salmon roll?

CONTROLLER

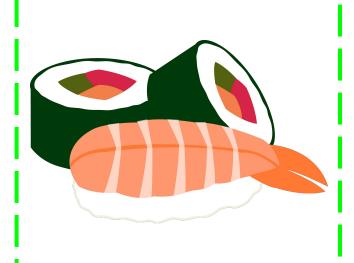


DATA

Welcome To R.K. Sushi (GRATUITY WILL BE APPLIED FOR A PARTY OF 5 OR MORE.)					
Table Number			* SUBSTITUTE SUBJECT TO EXTRA CHARGE	JECT	
Sashimi (5pcs) \$7.00	Qty	\$6 Rolls	Q	
Albacore			Eel Roll	L	
Salmon		4	Shrimp Crunch Roll	Г	
Tilapia			Shrimp Tempura Roll	Г	
Tuna			Snow Ball Roll	Г	
Tuna Tataki			Spicy Tuna Roll	Г	
Yellow Tail			Spicy Yellowtail Roll	Г	
Nigiri (2po	s) \$4.00	Qty	Spider Roll	Г	
Albacore	Salmon Roe		\$7 Rolls	Q	
Ebi	Stick Crab		Fire Cracker Roll	Г	
Eel	Surf Clam		Pink Roll	Г	
lka	Tamago		Try This Roll	Γ	
Inari	Tilapia		Volcano Roll	Г	
Mackerel	Tuna		Yellow Tail Special Roll	Γ	
Masago	Tuna Tataki		\$8 Rolls	Q	
Octopus	Yellow Tail		Albacore Special Roll	Γ	
Salmon			Hillcrest Roll	Г	



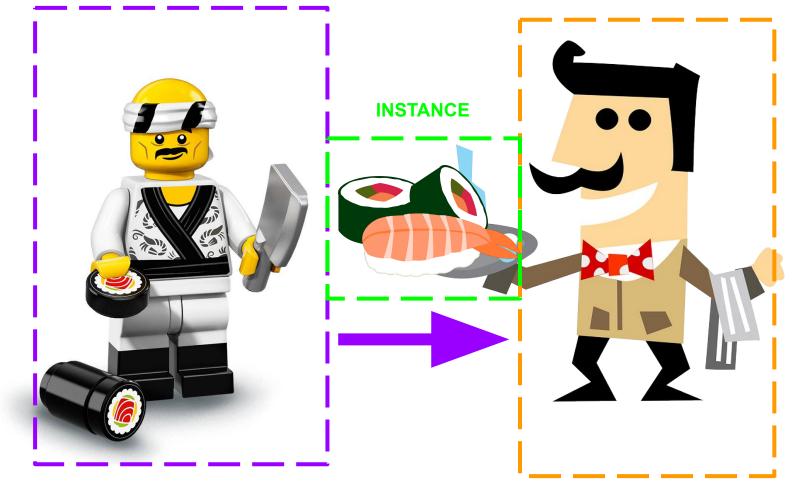
FIND ROW IN DATABASE BASED ON DATA





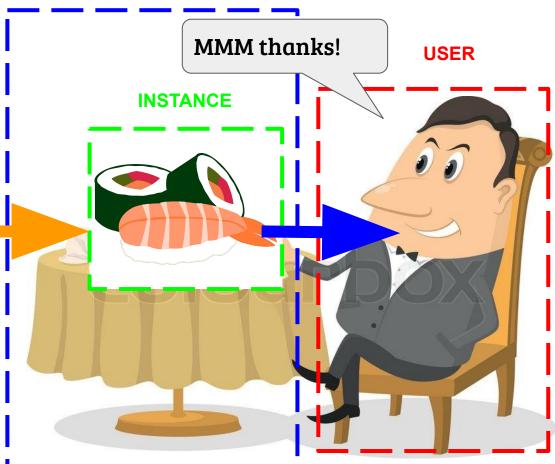
DATA

Welcome To R.K. Sushi (GRATUITY WILL BE APPLIED FOR A PARTY OF 5 OR MORE.)						
Number	Table Number		* Substitute Subject to extra charge			
Sashimi ((5pcs) \$7.00	Qty	\$6 Rolls	Qty		
Albacore			Eel Roll			
Salmon		*	Shrimp Crunch Roll			
Tilapia			Shrimp Tempura Roll			
Tuna			Snow Ball Roll			
Tuna Tatak	ti		Spicy Tuna Roll			
Yellow Tail			Spicy Yellowtail Roll			
Nigiri (2p	cs) \$4.00	Qty	Spider Roll			
Albacore	Salmon Roe		\$7 Rolls	Qty		
Ebi	Stick Crab		Fire Cracker Roll			
Eel	Surf Clam		Pink Roll			
lka	Tamago		Try This Roll			
Inari	Tilapia		Volcano Roll			
Mackerel	Tuna		Yellow Tail Special Roll			
Masago	Tuna Tataki		\$8 Rolls	Qty		
Octopus	Yellow Tail		Albacore Special Roll			
Salmon			Hillcrest Roll			



CONTROLLER





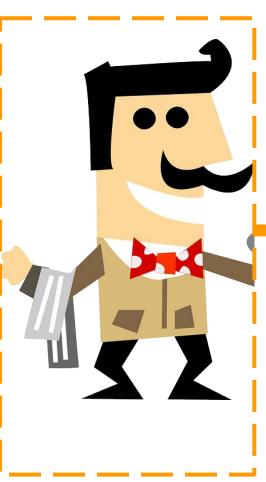


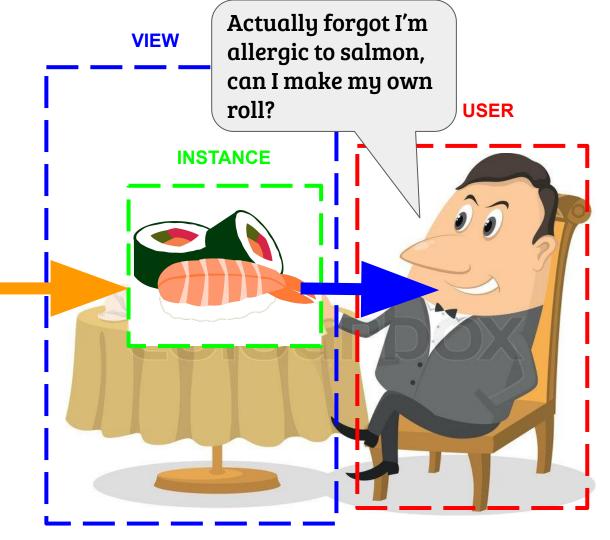
Task Complete

- 1. Tell Chef which roll the guest wants to see
- 2. Chef gets the ready-made roll out of the fridge
 - 3. Bring the roll to the guest

Verb	URI	Controller Method	erb/redirect
get	/sushis/:id	get '/sushis/:id'	erb :show

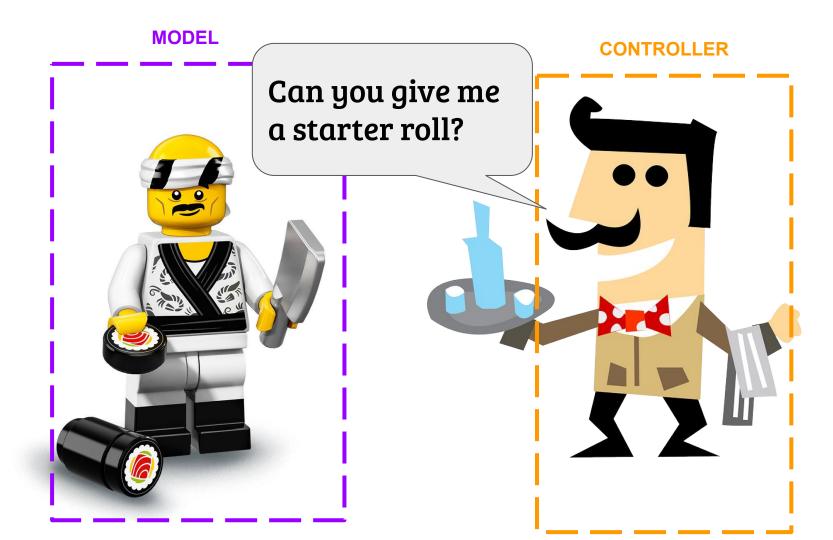
CONTROLLER





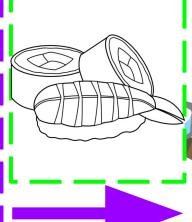
1. Give guest a means to make his custom sushi roll

Verb	URI	Controller Method	erb/redirect
?	?	?	?

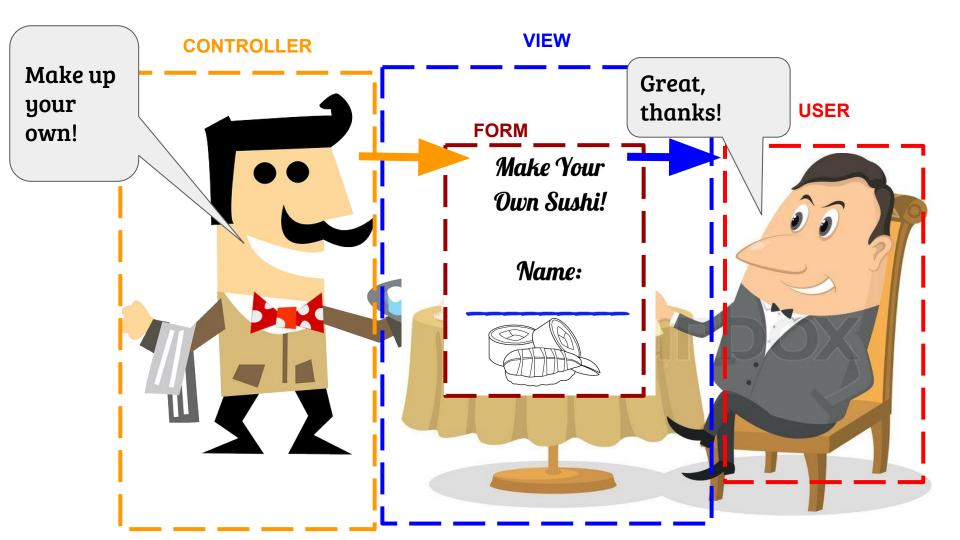




NEW INSTANCE (NOT FROM DATABASE)





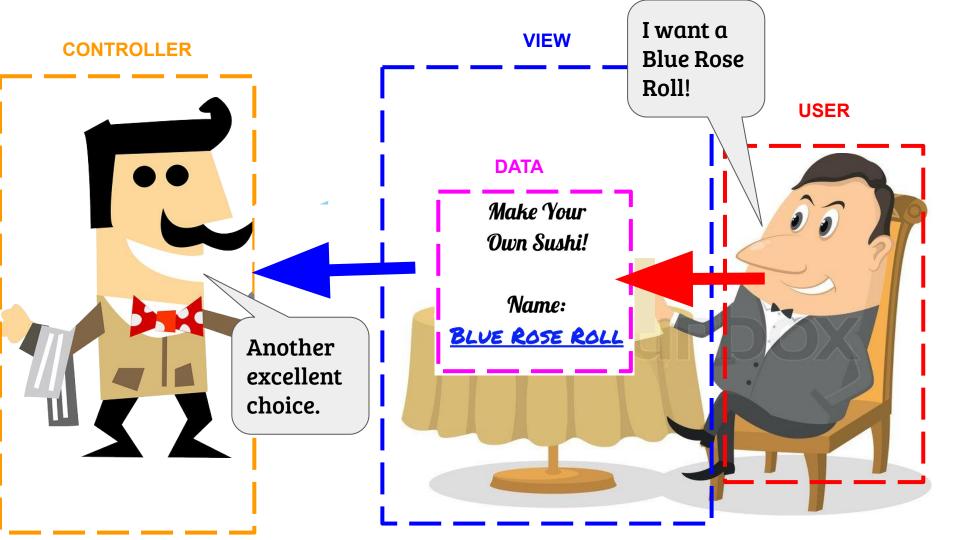




Task Complete

1. Give guest a means to make his custom sushi roll

Verb	URI	Controller Method	erb/redirect
get	/sushis/new	get '/sushis/new'	erb :new



- 1. Take the guest's order
- 2. Bring the order to the Chef
- 3. Chef makes the roll and gives to the waiter
 - 4. Waiter brings it to the guest

Verb	URI	Controller Method	erb/redirect
?	?	?	?

Got a new kind of sushi to invent!

CONTROLLER

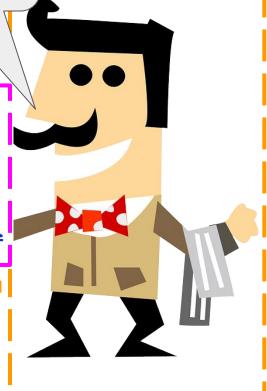


DATA

Make Your Own Sushi!

Name:

BLUE ROSE ROLL



MAKE NEW ROW IN DATABASE





DATA

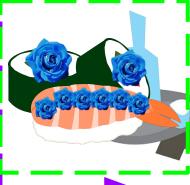
Make Your Own Sushi!

Name:

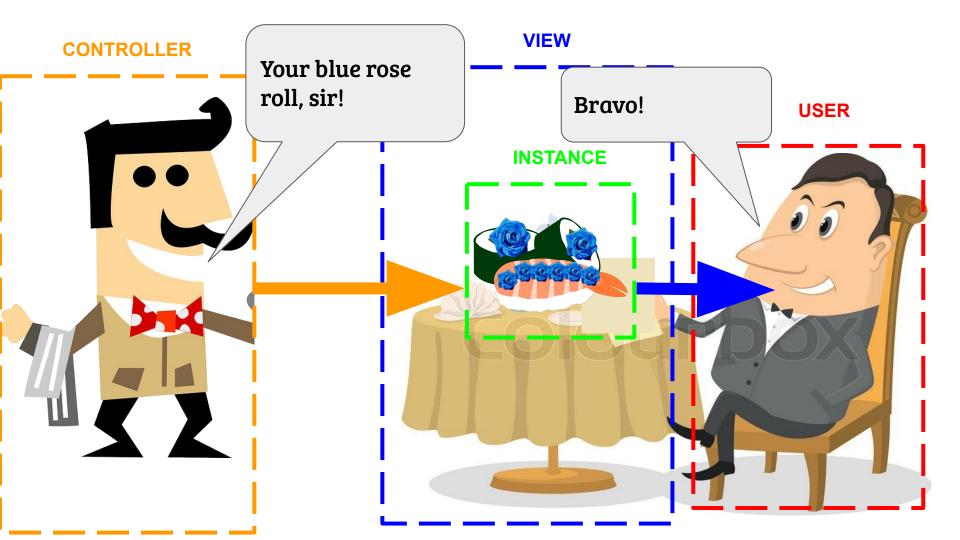
BLUE ROSE ROLL







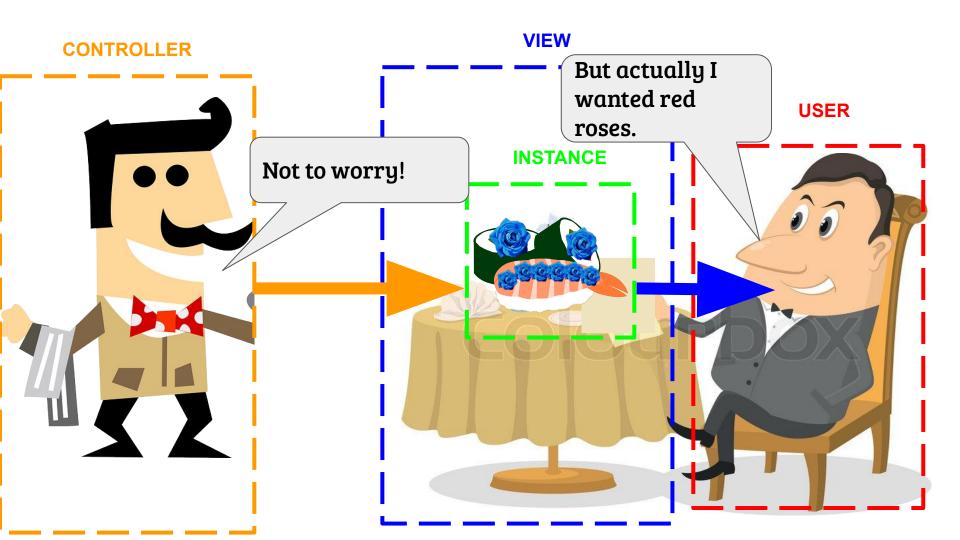






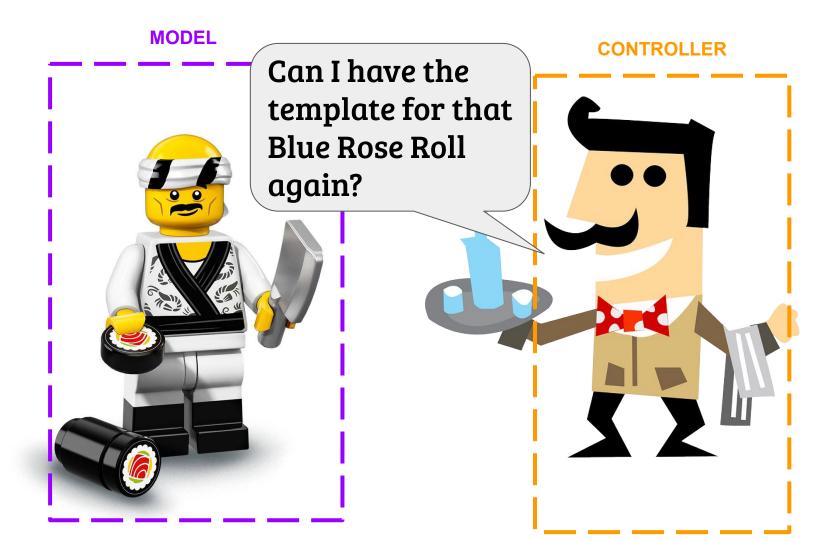
- 1. Take the guest's order
- 2. Bring the order to the Chef
- 3. Chef makes the roll and gives to the waiter
 - 4. Waiter brings it to the guest

Verb	URI	Controller Method	erb/redirect
post	/sushis	post '/sushis'	redirect '/sushis/:id'

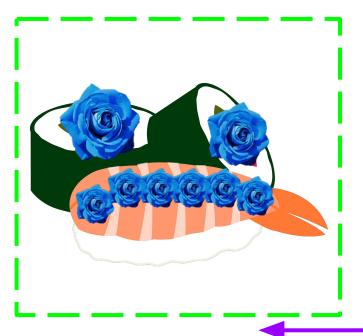


1. Give guest a way to change his order

Verb	URI	Controller Method	erb/redirect
?	?	?	?



FIND ROW IN DATABASE





DATA

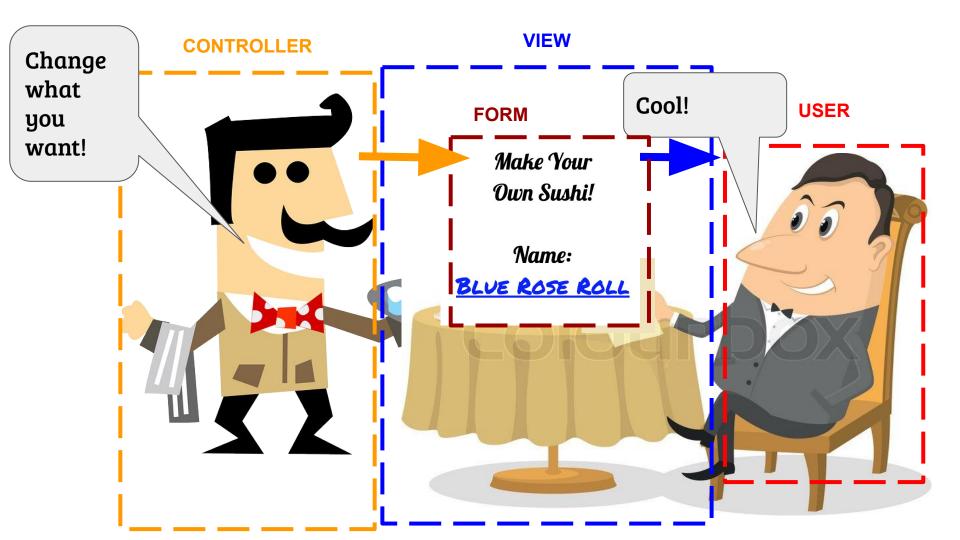
Can I have the template for that Blue Rose Roll again?









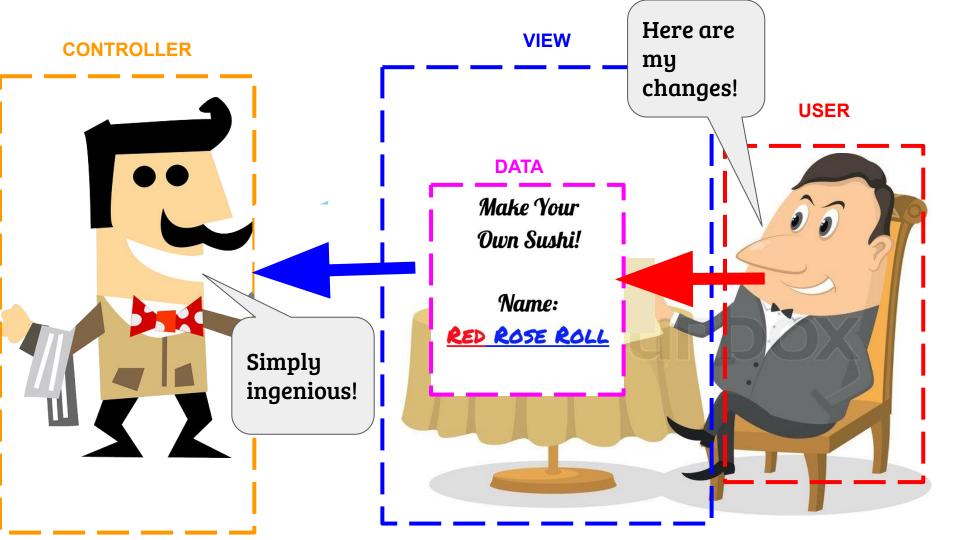




Task Complete

1. Give guest a way to change his order

Verb	URI	Controller Method	erb/redirect
get	/sushis/:id/edit	get '/sushis/:id/edit'	erb :edit



Task:

- 1. Take guest's changes to the chef
- 2. Chef makes alterations to the order
 - 3. Chef gives food back to waiter
 - 4. Waiter gives food to the guest

Verb	URI	Controller Method	erb/redirect
?	?	?	?



He actually wanted red!

CONTROLLER

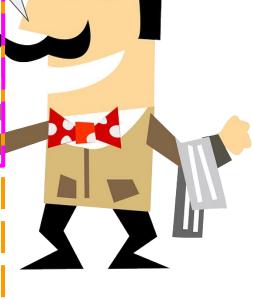


DATA

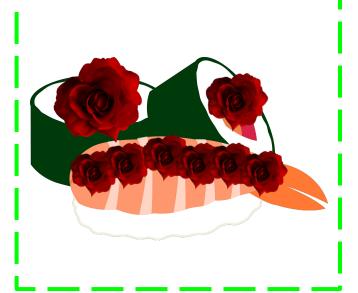
Make Your Own Sushi!

Name:

RED ROSE ROLL



FIND ROW IN DATABASE AND UPDATE





DATA

Make Your Own Sushi!

Name:

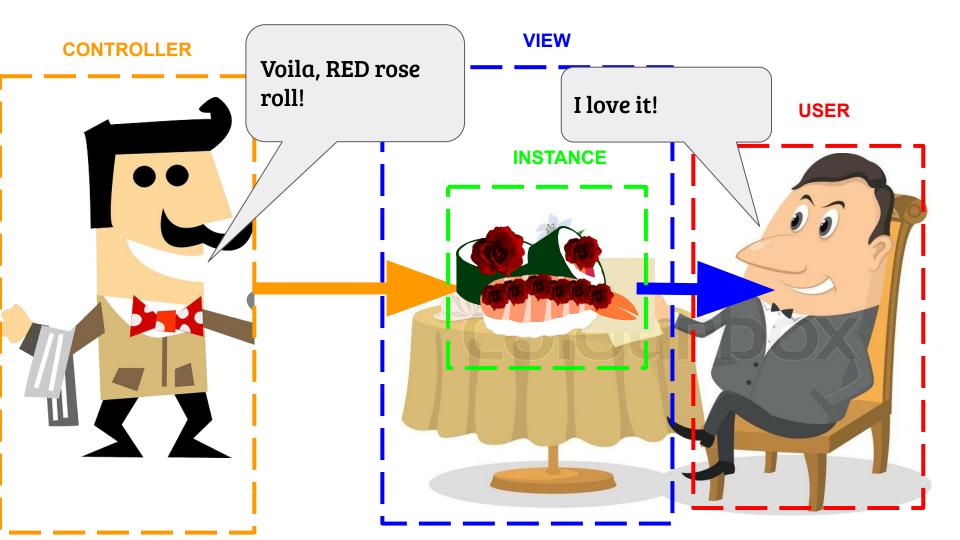
RED ROSE ROLL









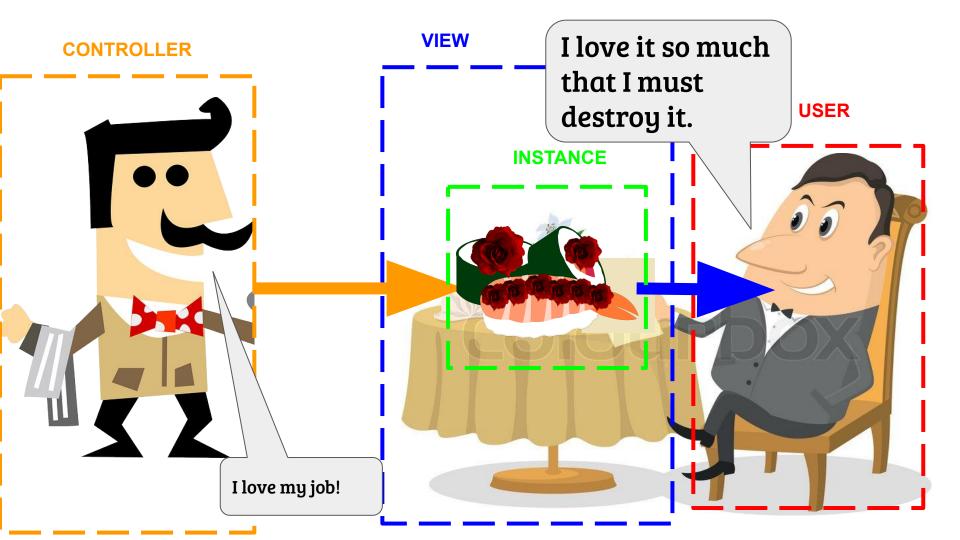




Task Complete

- 1. Take guest's changes to the chef
- 2. Chef makes alterations to the order
 - 3. Chef gives food back to waiter
 - 4. Waiter gives food to the guest

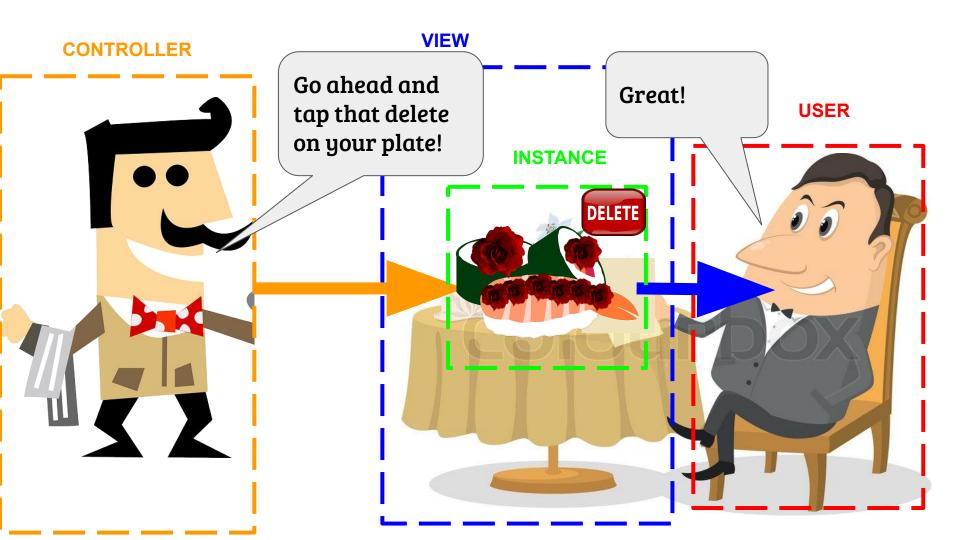
Verb	URI	Controller Method	erb/redirect
patch	/sushis/:id	patch '/sushis/:id'	redirect '/sushis/id'

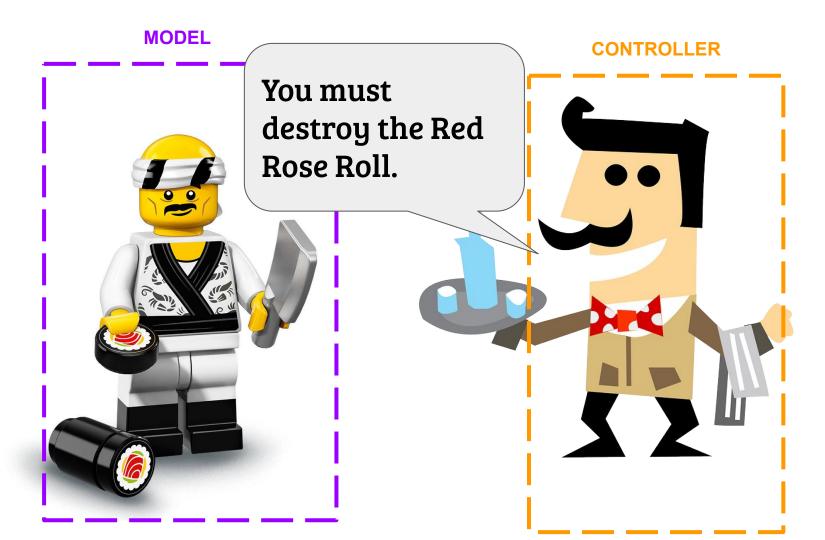


Task:

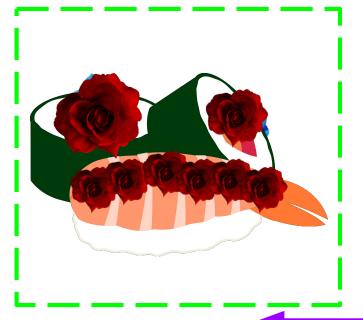
- 1. Give guest the option to destroy the roll they ordered.
 - 2. Tell the Chef to destroy his work.
 - 3. Bring the menu back to the guest.

Verb	URI	Controller Method	erb/redirect
?	?	?	?





FIND ROW IN DATABASE





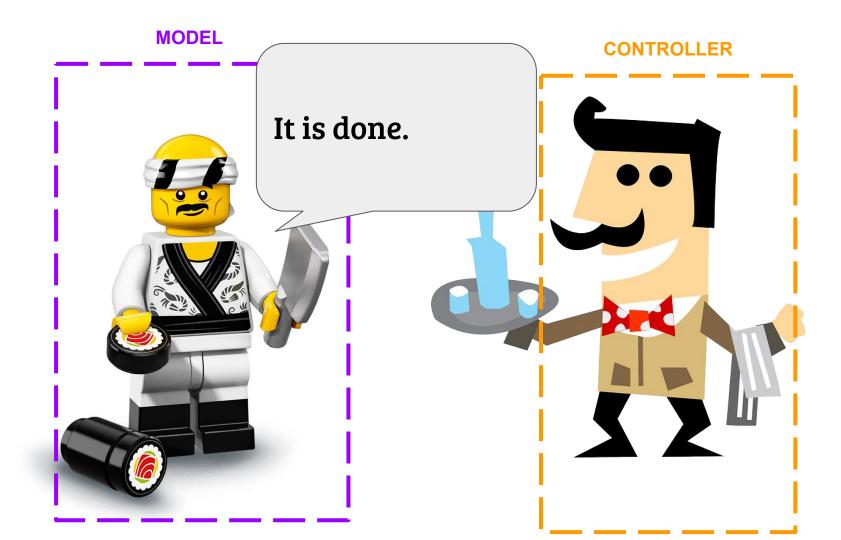
DATA

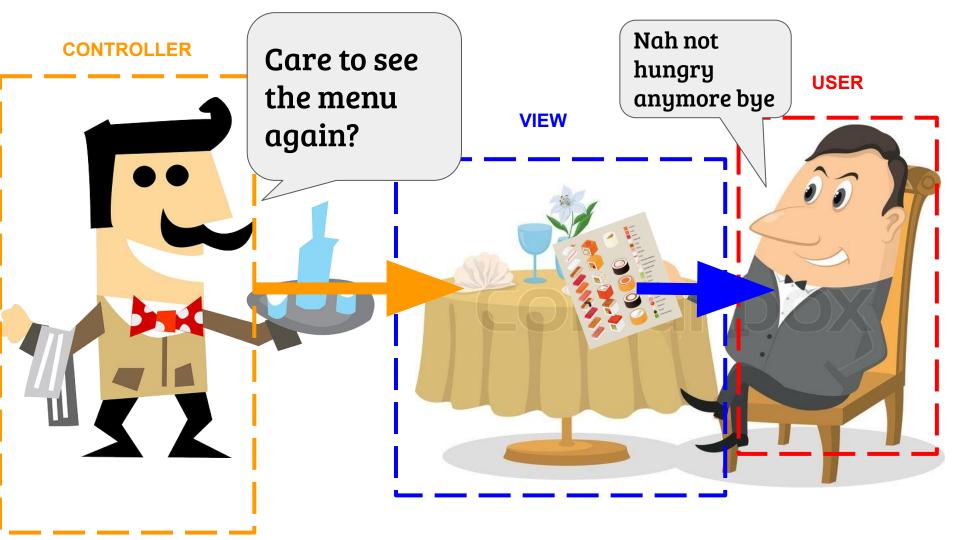
You must destroy the Red Rose Roll.

DESTROY











Task:

- 1. Give guest the option to destroy the roll they ordered.
 - 2. Tell the Chef to destroy his work.
 - 3. Bring the menu back to the guest.

Verb	URI	Controller Method	erb/redirect
delete	/sushis/:id	delete '/sushis/:id'	redirect '/sushis'

RESTful app

Resource: sushis

Verb	URI	Controller Method	erb/redirect to	
GET	/sushis	get '/sushis'	erb :index	
POST	/sushis	post '/sushis'	redirect '/sushis/id'	
GET	/sushis/new	get '/sushis/new'	erb :new	
GET	/sushis/:id/edit	get '/sushis/:id/edit'	erb :edit	
GET	/sushis/:id	get '/sushis/:id'	erb :show	
PATCH	/sushis/:id	patch '/sushis/:id'	redirect '/sushis/id'	
PUT	/sushis/:id	put '/sushis/:id'	redirect '/sushis/id'	
DELETE	/sushis/:id	delete '/sushis/:id'	redirect '/sushis'	

RESTful Routes Ultimate Cheat Sheet

post

get

patch

delete

Create

Read

Update

Destroy

4. Add sushi

6. Edit sushi

7. Destroy sushi

5. Form to edit sushi

Task	CRUD	Verb	URI	not apply in Sinatra	(Rails)	View
1. Show all sushis	Read	get	/sushis	sushis_path	index	erb :index
2. Show a sushi	Read	get	/sushis/:id	sushi_path	show	erb :show
3. Form to add sushi		get	/sushis/new	new_sushi_path	new	erb :new

/sushis

/sushis/:id/edit

/sushis/:id

/sushis/:id

Action

redirect

erb :edit

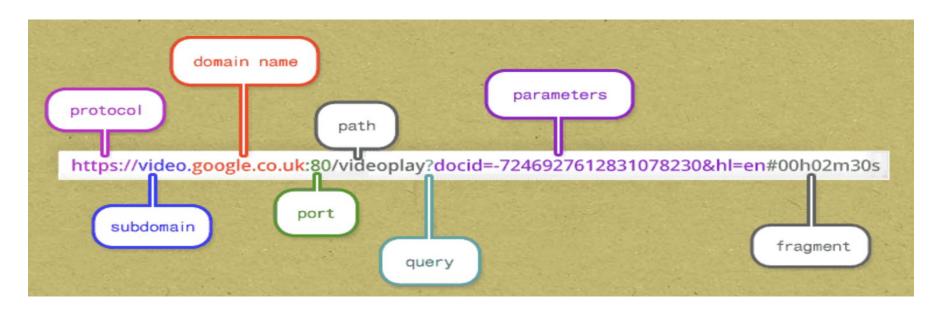
redirect

redirect '/sushis'

'/sushis/:id'

'/sushis/:id'

Parts of a URL



https://doepud.co.uk/blog/anatomy-of-a-url