

Design Patterns for Big Shiny Apps



github.com/akgold/erum-big-shiny

Time For



App.R

library(shiny) library(shinydashboard) library(httr) library(ggplot2) library(dplyr) library(leaflet)

Crea ui < Bi

R Pa

httr:.

magrittr::extract2("data") %>% magrittr::extract2("en") %>% magrittr::extract2("feeds") %>% purrr::map_df(tibble::as.tibble)

Get URL of station feed station url <- feeds %>%

dplvr::pull(url)

dplyr::filter(name == "station_information") %>%



lot Data ----

ations, status_dat()\$dat) %>%

glue::glue(

ny lule

r = "white", olor = "red"

paste0(plot_val)

Run the application shinyApp(ui = ui, server = server)

Server



1. Business Logic → [plumber]



2. Connections →







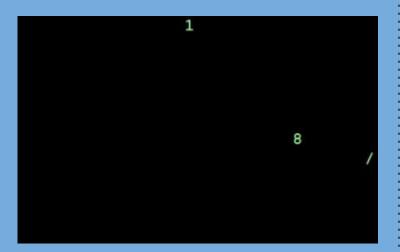








And Now, Some





More work up front



Much easier to test components



More maintainable code

Quick Classroom Stats	Available Classrooms						
7	Classroom States						
	Created Activated						
0	Show 10 ‡ entries						Search:
Instances Creating	Classroom		Owner	Requested For	Status	Running Instances	Creating Instances
	1 Alex Class		steve.nolen		created	NA .	NA
	2 4ed700ac-7637-4eef	a875-5b1fa384fda7	steve.nolen		activated	NA	NA
	3 39493e0c-d729-4c15	bb03-2027f1a5fdf0	steve.nolen		activated	NA	NA
	4 2e106c5c-8357-4ea0	af05-994360bbde1c	steve.nolen		activated	NA	NA .
	5 testtesttest		alex.gold	2020-03-11	activated	NA	NA .
	6 980a7b85-0131-475e	9596-27f3a4f92968	steve.nolen		activated	NA.	NA.
	7 asdfffffff		alex.gold	2019-12-05	created	NA	NA
	8 Test no notofoafd		alex.gold	2019-12-05	created	NA .	NA
	9 73438da3-398c-4af8	a4b4-d6c2b7dbabbb	steve.nolen		activated	NA	NA.
	10 aab898d0-f5cb-4f85	a9cd-0f52f630c771	steve.nolen		activated	NA	NA.
	Showing 1 to 10 of 11 entries						Previous 1
	€ Refresh						
anage Class Attributes							
Classroom Request Details	Classroom Details			Update 0	Classroom		
testtesttest		-496f-9423-adceb4721383		Update	e Class Attributes		
owner_email: alex.gold@rstudio.com	Startup:			Which	Attribute		
student_password: testtesttest_pass student_user: testtesttest_user	runcmd: NA Sudo runcmd: NA			cidr_b			
duration: 1	In Progress ID:			Attrib	ute Value		
class_id: testtesttest	Passcode: SVRIHL			744115	ate ratue		
workshop_date: 2020-03-11 student_image_name: general-training-image	Image Parameters:	8b-5fbf-4fdf-aba8-		Apply	Update (WARNING: NO CHECK	S)	
n_students: 2	Profile ARN: arm	:aws:iam: instance-profile/train:	ng-instance-role				
Freshest AMI IDs	Root Vol Siz: 30				e Run Command		
	AWS Parameters: Instance Type: t	3 modium			nt Value (Apply Changes Here		
Image ID	Key Name: traini			NA			
uentera redulutes-datu-s-522-3/das-5267 (1871); 2020-01-12 Admin b025668e-09a7-4e10-bd9-66757/dd9199 2020-01-27	Region: us-east-			D	nd Type		
	CIDR Block: 10.8 Map Public IP: T			user	na rype		
	Tool-Created:						
	IG ID: ig-123456				Language		
	VPC ID: vpc-1234	VPC ID: vpc-1234567 SG ID: sg-1234567			bash Presets		
	36 ID: Sg-123436						
				admir	n		
				Preset	Runcmd (Copy/Paste to Above	to Use)	
				git	clone https://github.	com/rstudio/pro_admin_training_as	ssets.git /usr/share/class/pro_admin_trainin
				cp /	usr/share/class/babyn	ames.csv /usr/share/class/pro_adm	nin_training_assets/babynames.csv
				Apply	Update (WARNING: NO CHECK	S)	
fanage Classroom Instances							
						Add Instances 🖵	
Instance Info						How Many?	
Student Username: testtesttest_user						0	
Student Username: testtesttest_user						0	
Instance Info Student Password: testtesttest_user Student Password: testtesttest_pass Current instance states:running: 2						0 Create	
Student Username: testtestest_user Student Password: testtesttest_pass				Search:		0	
Student Username: testtesttest_user Student Password: testtesttest_pass current instance states:running: 2 how 10 ² entries	In Procress ID	Created	Updated	Search:		0	
Student Username: testtesttest_user Student Password: testtesttest_pass Current instance states:running: 2 inhow 10 f entries 10 State URL	in Progress ID NA	Created 2020-03-27 19-51-29	Updated 2020-03-27 I			0	
Student Username: testtesttest_user Student Password: testtesttest_pass Current instance states:running: 2 show 10 * entries 10 State URL 1 +1234567 running http://blah.coample.80	NA	2020-03-27 19:51:29	2020-03-27 1	9:51:29		0	
Student Username: testtesttest_user				9:51:29		0	
Student Username: testtesttest_user Student Password: testtesttest_pass Current instance states:running: 2 Show 10 fentries ID State URL 1 i-1234567 running http://blah.coample.80	NA	2020-03-27 19:51:29	2020-03-27 1	9:51:29	Previous 1 Next	0	

Thanks!

Especially to Cole Arendt



https://github.com/akgold/stickr



github.com/akgold/erum-big-shiny