MICHIGAN STATE UNIVERSITY Alpha Presentation Custom Data Visualization Dashboard

The Capstone Experience

Team Atomic Object

Chandan Aralikatti Abigail Murray Frank Nylander Neil Warraich Wenrui Li

Department of Computer Science and Engineering Michigan State University

Fall 2022



From Students... ...to Professionals

Project Overview

- Create new customizable, dynamic dashboard with updated components for in-office display on television
- Allow employees to remotely control what components are displayed and the layout of each dashboard through admin page using presets and on/off switches
- Store preset data in back-end so employees can save and reuse preset components and layouts
- Enable each office to develop own presets and customize dashboard to their choosing, providing a few default options to start with and office-specific URLs

System Architecture



Dynamic Dashboard – Four Panels



Employee Blog Post Status





AWS Lambda: Trap or Treasure for API Backends?

If you search for examples of cloud-deployed APIs, you're sure to find many examples using an AWS Lambda to provide the computing power behind the API. But is this actually a good idea as so many examples and toolkits would lead us to believe? Or, is it an unfortunately naive example luring developers into a [_]

By Jason Porritt



Upcoming Events	August		
SSC Cyther Check-in Meeting	Main Office Terrorrow 9r104M - 11004M		
Vice President Fireside Chat	Main Office Terminition 100PM - 3.00FM		
Helping Hands Fundraiter	Helping Hands Ave. Arbor Headquarters Onvolve 0, 2022 TLICOAM - SOOPM		
Employee Social Night	Great Lawn October 7, 2002 5:02PM - 7:00PM		

Dynamic Dashboard – Five Panels









AWS Lambda: Trap or Treasure for API Backends?

If you search for examples of cloud-deployed APIs, you're sure to find many examples using an AWS Lambda to provide the computing power behind the API. But is this actually a good idea as so many examples and toolkits would lead us to believe? Or, is it an unfortunately new example luring developers into a [..]

By Jason Porritt







Dynamic Dashboard – Six Panels







AWS Lambda: Trap or Treasure for API Backends?

If you search for examples of cloud-deployed APIs, you're sure to find many examples using an AVS Lambda to provide the computing power behind the API. But is this actually a good idea as so many examples and tookits would lead us to believe? Or, is it an unfortunately naive example living developers litts a L_1.

By Jason Pornitt

Read Full Post



Upcoming Events	August -
SSC Cytler Check-in Meeting	Main Office Trescelars 9/13AM - 11:00AM
Vice President Fireside Chat	Main Office Trintramon ToOPM - 3.00PM
Helping Hands Fundraiser	Helping Hands Ann Arbor Hindspartern Denner 6, 2022 THORAM - 3:00PM
Employee Social Night	Great Lawn Octoiler T, 2027 5:00PM - 7/00PM

Team Atomic Object Alpha Presentation

Admin Page

React App	× +					~	-	σ	×
$\leftarrow \ \ \rightarrow \ \ C$	③ localhost:3000					ዸ ☆	* 0	1	÷
	Offices	Presets Social *	Add New Preset	d Update Preset	Delete Preset	# Of Panels			
	Revenue	None							
	Blog posts	panel 3							
	Utilization	None	*						
	Employee Slideshow	panel 4	1						
	Upcoming Events	panel 5	*						
	Billable Hours	None							
	Project progress	None			Update	Dashboard			

What's left to do?

- Pull from various APIs in back-end (right now just using JSON data file)
- Pulling preset data from Firebase and displaying preset layouts on dashboard
- Update dashboard front-end by fixing margins/spacing and using company colors and fonts
- Ensure all types of components are created on front-end for selection from admin page (most but not all have been created)

Questions?

