# MICHIGAN STATE UNIVERSITY Beta 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





# Admin Management Page

						Salact	t Office 🕕	Solor	t Preset 🕧	
AL	tomia	obio	at Radiator	No	ew Offices		Rapids *	Defau		
• / •		53	ct Radiator		onces.	Grand	Rapios	Delau	u	
Ad	min Manage	ement	Page			Add N	ew Preset Add	Update Pros	Delete Pr	eset
V										
Select componer	nts to add for	r each p	panel.			Numb	er of Panels	6 -		
Charts and Metric-Ba	ased Componer	nts	Social Components							
							1	2	3	
Blog Post Status	Panel 1		Upcoming Events	None	2.00		8	-	3	
Project Progress	None		Employee Slideshow	Panel 2						
Utilization	Panel 4		Trending Blog Post	None	*					
Billable Hours			Employee Spotlight				4	5	6	
132-134 Mil	Panel 3		1000 100 100	Panel 5	(*)					
Office Revenue	None		Employees on Project	Panel 6	*					

# **Grand Rapids Custom Preset**

# Grand Rapids Radiator Employee Blog Post Deadlines



#### Days Remaining

Heatt App

(icahost.1001/TelSes-grandiagida



#### **Current Projects Table**

Project Team	Project Managez	Team Lead	Developers
Murray Accounting Firm Web App	Mark Smith	Abigail Murray	Abigail Murray, Frankie Nylander, Joe Christopher
Sam's Greenhouse Website	Dylan Goings	Jake White	Wennul Li, Neil Warraich
East Lansing Grocery Store Cloud Service	Nick Patrick	Sue Michaels	James Stone, Emma Bryan, Harvey Paulsen

#### Project Progress

Reynolds Law Firm Website Joe's Supermarket App Blue Waters Marketing Firm Cloud Application Ann Arbor Family Doctors Website

A Ga 🏚 🙆 🚥

# **Chicago Social Preset**

### Keist App X Keist App X Keist App X Keist App

#### O Chicago Radiator

#### **Current Projects Table**

Project Team	Project Manager	Team Lead	Developers
Murray Accounting Firm Web App	Mark Smith	Abigail Murray	Abigail Murray, Frankie Nylander, Joe Christopher
Sam's Greenhouse Website	Dylan Goings	Jake White	Wenrul Li, Neil Warraich
East Lansing Grocery Store Cloud Service	Nick Patrick	Sue Michaels	James Stone, Emma Bryan, Harvey Paulsen

#### **Trending Blog Post**



#### Create a Visual Design System for Implementation Teams

The creation of a design system is crucial infrastructure for implementation teams with design and development roles. Design systems documents tokens, user interface elements, and patterns for use in a software application. A design system creates constraints, standardizes the user's experience, and improves the speed of development when creating user interfaces. The transparent nature of [...]

By Brian Elkus

#### **Employee Spotlight**



#### Happy 11th work anniversary James!

James, a developer at the Ann Arbor office has been working for AO for 11 years in various positions. He has contributed to several important projects such as leading the developers on the A&E website project and creating new, simplified designs for the company website. Thank you for your hard work James!

#### Image Slideshow



# **All Offices Six Panels**



#### Happy 11th work anniversary

James, a developer at the Ann Arbor office has been working for AO for 11 years in various positions. He has contributed to several important projects such as leading the developers on the ABiE website project and creating new, simplified designs for the company website. Thank you for your herd work James!

#### Utilization Rate



#### **Project Progress**

Days Remaining



#### Ann Arbor Family Doctors Website

#### **Current Projects Table**

Project Team	Project Manager	Team Lead	Developers
Murray Accounting Firm Web App	Mark Smith	Abigail Murray	Abigail Murray, Frankie Nylander, Joe Christopher
Sam's Greenhouse Website	Dylan Goings	Jake White	Wenrui Li, Neil Warraich
East Lansing Grocery Store Cloud Service	Nick Patrick	Sue Michaels	James Stone, Emma Bryan, Harvey Paulsen

#### Employee Billable Hours by Office



0

### What's left to do?

### Stretch Goals

- Add more components for variety
- Allow the addition of an office
- Drag and reorder components/drag and drop to order components on panels on side

### Other Tasks

- Finish styling dashboard components (overflow, sizing of graphs)
- Image slideshow pull from shared drive employees can edit
- Fix glitch issue (currently goes away on refresh)
- Receive final data queries from Atomic Object

### **Questions?**

