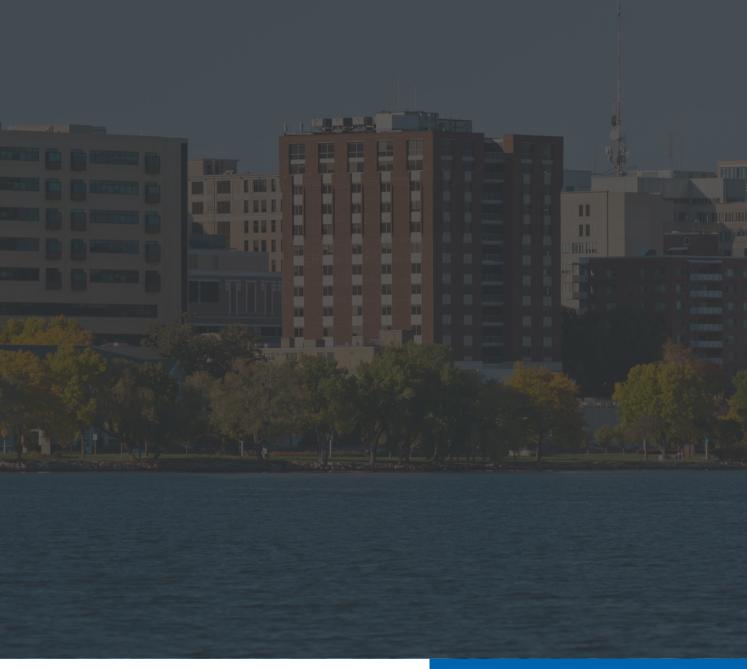
WEB APPLICATION

Madison Metropolitian School District



Streamlining an antiquated, time-consuming process.

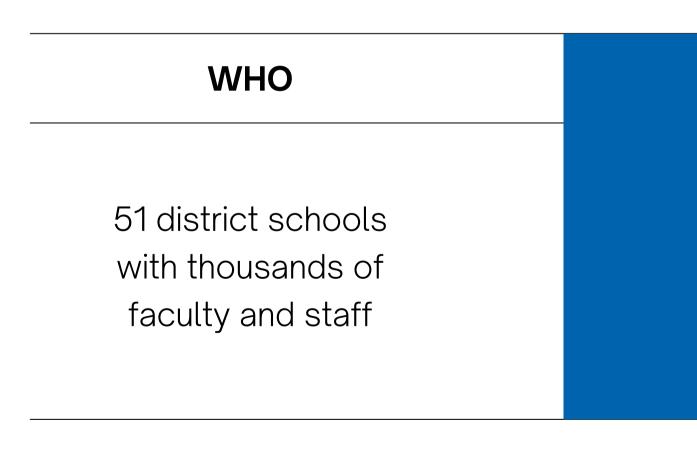






MADISON METROPOLITAN SCHOOL DISTRICT IN MADISON, WISCONSIN

Streamlining the process of scheduling faculty across the district.



WHAT

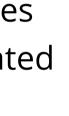
Ruby on Rails Bootstrap

The Goal

A TALE AS OLD AS TIME

MMSD wanted what most organizations want: take an extremely complicated and manual process and automate it. One of their employees was spending an exorbitant amount of time maintaining a very complicated Excel spreadsheet that kept track of the staffing schedules across the District. Every faculty placement decision would have to go to him so it could be entered and maintained in the spreadsheet.

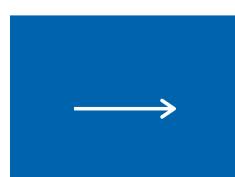
MMSD wanted a tool that would allow principals and other administrators to be more collaborative and self-efficient with scheduling faculty and staff among the schools.





The Product

We developed a Ruby on Rails web application, managed by Entrision, that the school administrators could interact with simply and efficiently to meet their staffing needs. With this tool, the one-person spreadsheet maintenance was eliminated. Principals were given a framework that provides guidelines to work autonomously during the planning season.



Allocation Tool

location Plans

Staff

LEVEL	OCATION				
- Any -	- Any -				
ALLOCATION STATUS	JOB CLASS PREFIX				
- Any -	- Any -				
CERTIFICATION STATUS CERTIFICATION CODE					
- Any -	- Any -				
RESET FILTERS					
Search Staff					
1 2 3 4 5 Next	Last »				

NAME 🛆

RNUMBED SENIODITY

Workflow Collaboration

The tool helps manage the schedule through various states (from a "Started" plan to a "Published" plan). Reviewers are able to see all the data and make comments, starting a conversation with the important parties through the tool. Ultimately, the district plan has a final review by a "Budget Chief".

These "Chief Reviews" used to be a big hassle of getting everyone in a room, then the principal would have to present their budget and the chiefs would review in realtime. If there were significant issues found, they may have to have another in-person meeting. Now the chiefs are able to start reviewing well before they'd traditionally first see the plan, so the feedback loops have been shortened quite a bit and there is obviously no need for in-person meetings. Conve

Conversions

POSITION CATEGORY		FTE
Cross Categorical Teacher		0.8101
EA - Clerical		0.3449
EA - Regular		0.0634
	INTERV.	SUPPORTS

Allocation Plan - Allis 2022

	Admin & Clerical		
~	Principal		
	PRINCIPAL A240 001240006		
	CANDACE TERRELL	747864	

Allocation Plans

Kennedy - 2022

SCHOOL NAME	TYPE
<u>Allis - 2022</u>	Elementary
<u>Anana - 2022</u>	Elementary
<u>Chavez - 2022</u>	Elementary
Crestwood - 2022	Elementary
<u>Elvehjem - 2022</u>	Elementary
Emerson - 2022	Elementary
<u>Franklin - 2022</u>	Elementary
<u> Gompers - 2022</u>	Elementary
<u>Hawthorne - 2022</u>	Elementary
<u>Henderson - 2022</u>	Elementary
<u>Huegel - 2022</u>	Elementary

Flementary

Reporting & Data Management

After the scheduling is complete, the tool provides historical tracking for the budget office to do efficient accounting. It streamlines the analysis of allocated school resources and ensures that union contracts are met.

Certifications FTE						Over All
CODE	NAME	TYPE	DATE	2	022 Owed	0.6605
0070	SPECIAL EDUCATION PROGRAM	MAIDE NONE	06/30/2023	2	022 Allocated	0.7375
				2	022 Leave	0.0000
				2	022 Separation 🗎	0.0000
				2	022 Surplus	0.0000
				2	022 Voluntary	0.0000
				2	022 Voluntary One Year	0.0000
				2	2022 Total	
				_	Remo	
Allocatio	S REPLICATE PREV. YEAR ADD D	DISTRICT LEVEL POSITION				\rightarrow
ЈОВ	POS. #	SCHOOL	CERT.	OVERRIDE		

Certifications FTE						Over All
CODE	NAME	TYPE	DATE	2022	2 Owed	0.6605
0070	SPECIAL EDUCATION PROGRAM	AIDE NONE	06/30/2023	2022	2 Allocated	0.7375
				2022	2 Leave	0.0000
				2022	2 Separation 🗎	0.000(
				2022	2 Surplus	0.0000
				2022	2 Voluntary	0.0000
				2022	2 Voluntary One Year	0.0000
				2022	2 Total	
					Remo	
Allocatio	ONS REPLICATE PREV. YEAR ADD DIS	STRICT LEVEL POSITION				\rightarrow
ІОВ	POS. #	SCHOOL	CERT.	OVERRIDE		

Our Process





RESEARCH & DISCOVERY

CRAFT THE USER EXPERIENCE

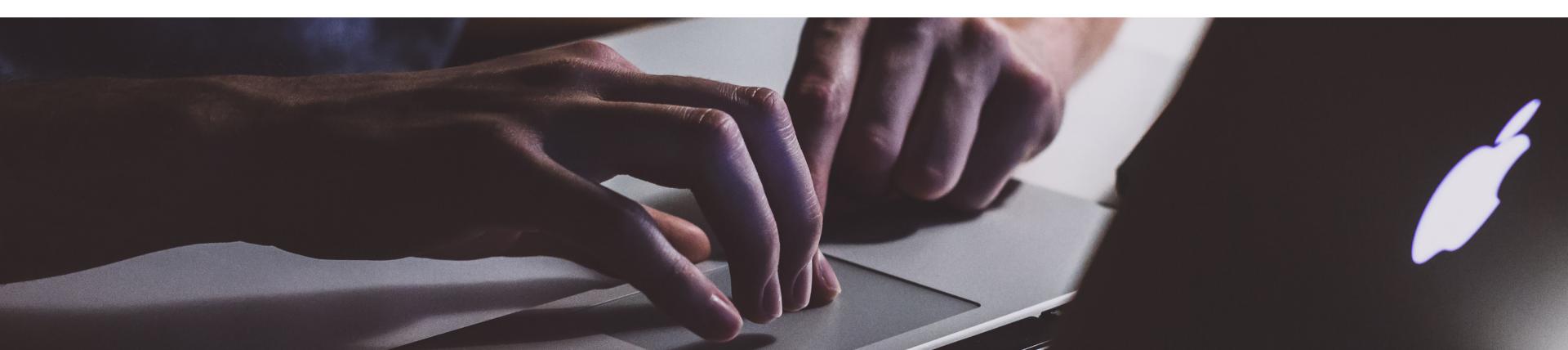
DEVELOPMENT

RELEASE EARLY AND OFTEN

LAUNCH AND BEYOND

Research & Discovery

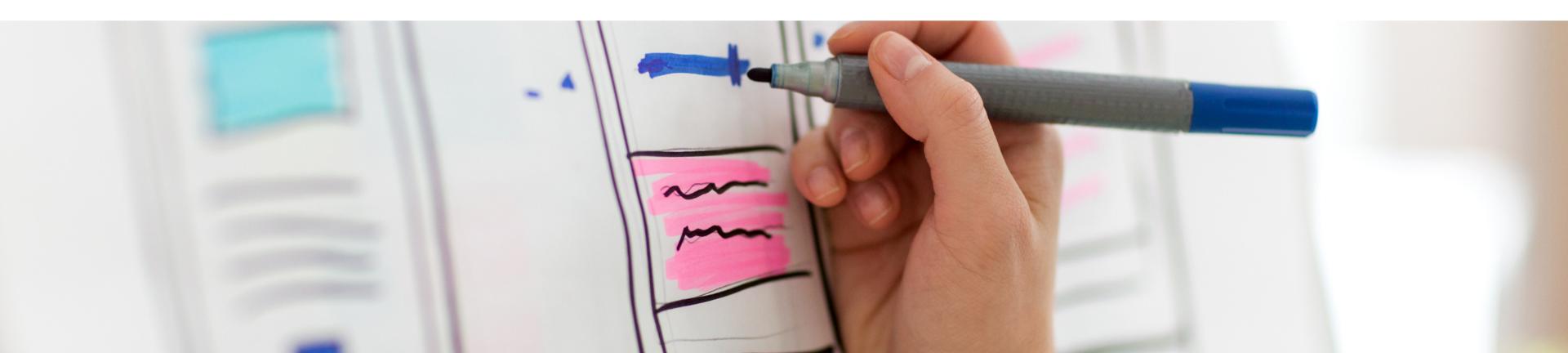
We spent a lot of that initial discovery time at the administrative buildings talking to the stakeholders and the end-users about the current processes, data sets, and challenges they faced during each scheduling season. We traveled to Madison each week and met with them virtually to ask questions, give updates, and provide demos of the application. Through this, we established a solid foundation of communication with the stakeholders.





Craft the User Experience

After pulling together all of the necessary information from MMSD, we mapped out what we believed to be the best solution. Our designer drew up a mock-up that we presented to MMSD for approval. Then, we went through a trimming process to determine our MVP - a minimal viable product. The first usable release of the application was very basic, but it answered a lot of MMSD's pain points.



Development

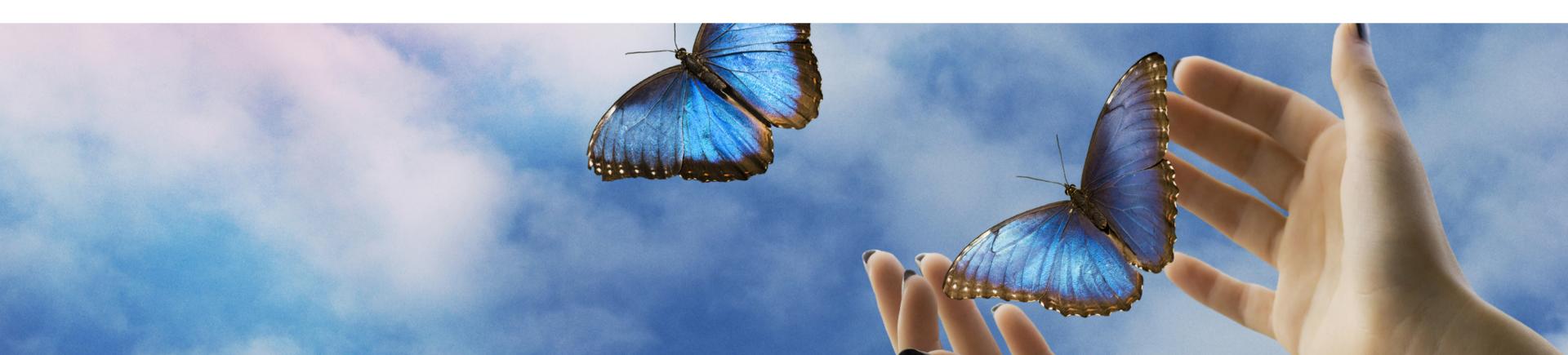
Early on in the project with MMSD, we knew a traditional Agile Scrum process wasn't going to work. We adapted our typical sprints and Scrum ceremonies to be more in line with the MMSD work style. The sprints were typically a week but were much less defined than what you'd see in Scrum. This was different for us, but it allowed us to work in tandem with the MMSD team in the best way possible. Our adaptation to their workflow grew open communication and transparency during each phase of development.





Release Early and Often

The MMSD stakeholders were part of every stage of this process. At every iteration from basic web application functionality to MVP, the MMSD team was an important part. Every week they provide feedback on our demos and presentations. With later iterations, they tested the application to ensure it would meet their needs and function as expected. We went through several releases before the inaugural year.



Launch and Beyond

Since that initial project release, each year prior to the District's scheduling season, we work with the stakeholders to evaluate the previous year's data, any process changes, and new business goals. We take that new information and adapt the application to fit these changes. We are continually developing and fine-tuning the application to accommodate and understand the Districts process nuances so that we can integrate it with the Districts HR System, thus removing the need for data imports each year.





Entrision has a deep understanding of our needs. They were a true partner in this project. They helped guide us through the process, and the result is an application that makes our annual budgeting 50x easier.

MMSD Liaison, Stakeholder



Contact Us



(906) 282-7554 **PHONE NUMBER**

theteam@entrision.com

EMAIL ADDRESS

entrision.com

WEBSITE



Customized Software Solutions