



Decision Support System: Automated Event Capacity Planning

•••

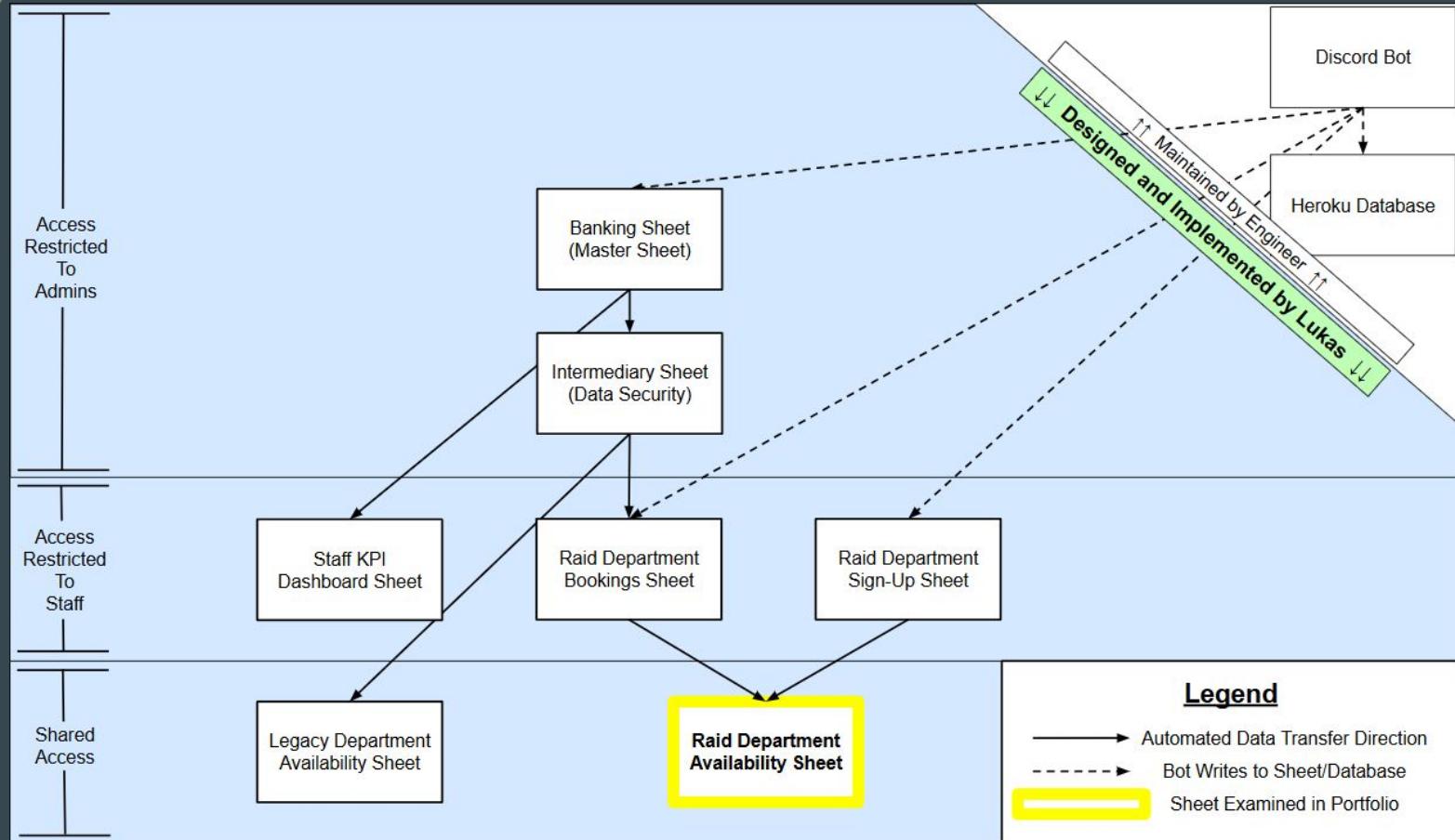
Lukas Ishihara

Business Operations Analyst, The Collective

lukas.ishihara@gmail.com



Data Flow Overview





Project Summary

Built an automated event capacity planning tool (decision-support system) that centralized scheduling into an operational calendar with individual event-level pages. The tool eliminated manual tracking and coordination, enabling planning, booking decisions, and leadership oversight across approximately \$500K in department activity.



Database




Event ID	Name	Difficulty	Date	Time	Sheet Link	Buyers	Status	Full Clear Left	Micro-offset	Link To Sheet	Automated
209201	Zucchini (Saved)	Heroic	9/16/2024	5:00 PM	1216522050	2	Automated	0	0.70833333462	Link To Sheet	Upcoming
209301	Waffles (7/8H Saved)	Heroic	9/19/2024	4:00 PM	388235018	8	Automated	0	0.66666666797	Link To Sheet	Inviting Boosters
109304	Pancake (Unsaved)	Normal	9/22/2024	6:00 PM	1110144483	8	Automated	0	0.75000000136	Link To Sheet	Inviting Buyers
209303	Soup (Saved)	Heroic	9/23/2024	5:00 PM	46805503	5	Automated	0	0.70833333470	Link To Sheet	On Time
109305	In House (Unsaved)	Normal	9/23/2024	5:00 PM	188275439	5	Automated	0	0.70833333471	Link To Sheet	Late
209402	Donut (Unsaved)	Heroic	9/24/2024	5:00 PM	886627494	4	Automated	0	0.70833333472	Link To Sheet	Cancelled
109403	Gumbo (Unsaved)	Normal	9/24/2024	6:30 PM	495561892	10	Cancelled	10	0.77083333473	Link To Sheet	In Progress
109409	Chili (Unsaved)	Normal	9/24/2024	9:30 PM	1005852279	10	Automated	0	0.89583333474	Link To Sheet	Completed
109401	Peanuts (Unsaved)	Normal	9/25/2024	8:00 PM	1622876869	8	Automated	0	0.83333333475	Link To Sheet	Automated
209401	Waffles (7/8H Saved)	Heroic	9/26/2024	4:00 PM	1338484366	8	Automated	0	0.66666666810	Link To Sheet	
109407	Taco (Unsaved)	Normal	9/27/2024	7:00 PM	1588052820	10	Automated	0	0.79166666815	Link To Sheet	
209405	Sandwich (Saved)	Heroic	9/27/2024	7:00 PM	1599474501	5	Automated	0	0.79166666816	Link To Sheet	
109412	Eggroll (Unsaved)	Normal	9/28/2024	5:00 PM	1657542885	10	Automated	10	0.70833333483	Link To Sheet	
209403	Eggroll (7/8H Saved)	Heroic	9/28/2024	6:30 PM	233057427	7	Automated	4	0.77083333485	Link To Sheet	

- Department-level dataset consolidating event timing and availability into a scheduling view
- Designed to maintain consistent event ordering during high-volume, overlapping scheduling
- Status logic supports automated updates with controlled manual overrides, defaulting to automation with manual intervention reserved for exceptions

Fully Automated Calendar

The Collective Raid Sheet (All Times are PST)						
September 2024						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
	8	9	10	11	12	13
					(N) Tuna Mayo (Saved) Cancelled - - (N) French Fry (Saved) Cancelled - -	14
	15	16	17	18	19	20
(N) Eggroll (Saved) (N) Pancake (Saved)	5:00 PM 0 0 6:00 PM 0 0	(N) Tuna Mayo (Saved) Cancelled - - (N) Donut (Saved) (H) Zucchini (Saved)	5:00 PM 0 0 5:00 PM 0 0	(H) Waffles (7/8H Saved) 4:00 PM 0 0 (N) In House (Unsaved)	6:00 PM 0 0 6:00 PM 0 0	(H) French Fry (6/8H Saved) 6:00 PM 0 0 (N) In House (Saved) Cancelled - -
	22	23	24	25	26	27
(N) Twinkies (Unsaved) (H) Zucchini (Saved) (N) Pancake (Unsaved)	4:00 PM 0 0 Cancelled - - 6:00 PM 0 0	(H) Soup (Saved) 5:00 PM 0 0 (N) In House (Unsaved) 5:00 PM 0 0	(H) Donut (Unsaved) 5:00 PM 0 0 (N) Gumbo (Unsaved) (N) Chili (Unsaved)	(N) Peanuts (Unsaved) 8:00 PM 0 0 Cancelled - - 9:30 PM 0 0	(H) Waffles (7/8H Saved) 4:00 PM 0 0 (N) In House (Unsaved) 5:00 PM 0 0	(N) Tuna Mayo (Unsaved) 4:00 PM 0 0 (N) Croissant (Unsaved) 5:00 PM 0 0 (N) Jam (Unsaved) 6:00 PM 0 0 (H) Eggroll (7/8H Saved) 6:30 PM 4 0 (N) Taco (Unsaved) 7:00 PM 0 0 (H) Sandwich (Saved) 7:00 PM 0 0
	29	30				
(N) Twinkies (Unsaved) (H) Meatball (Unsaved) (H) Pancake (Saved) (N) Corn Dog (Unsaved)	4:00 PM 6 0 6:00 PM 10 0 6:00 PM 3 0 7:00 PM 8 0	(N) Zucchini (Unsaved) 5:00 PM 8 0 (N) Pizza (Unsaved) 7:00 PM 6 0 (N) Ramen (Unsaved) 8:00 PM 9 0				

- Monthly calendar displaying scheduled events by day and time
- Each event shows remaining booking capacity at a glance
- Event entries include direct hyperlinks to associated event pages for quick access



Associated Event Page

Event ID:	209403	Boosters:	TBD	Eggroll (7/8H Saved)	Completed						
Date:	9/28/2024	Difficulty:	Heroic								
Time:	6:30 PM	Collector:	Holysitbro								
Reserved Items											
All Tank Trinkets Web-Wrapped Curio Wings of Shattered Sorrow Acidic Attendant's Loop											
Description	Armor Reserve	Tier Reserve	Class	Reserved Item List		In Group	Spot Filled	Click Here to Return To Calendar			
Full Clear	Plate	Dreadful	DK	All Tank Trinkets		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Full Clear	Mail	Zenith	Evoker	Web-Wrapped Curio / Wings of Shattered Sorrow		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Full Clear	Leather					<input type="checkbox"/>	<input type="checkbox"/>				
Full Clear	Cloth	None	Mage	Acidic Attendant's Loop		<input type="checkbox"/>	<input checked="" type="checkbox"/>				
Full Clear	Vault Express					<input type="checkbox"/>	<input type="checkbox"/>				
Full Clear	Vault Express					<input type="checkbox"/>	<input type="checkbox"/>				
Full Clear	Vault Express					<input type="checkbox"/>	<input type="checkbox"/>				