Decision Support System: Pricing and Availability Analysis
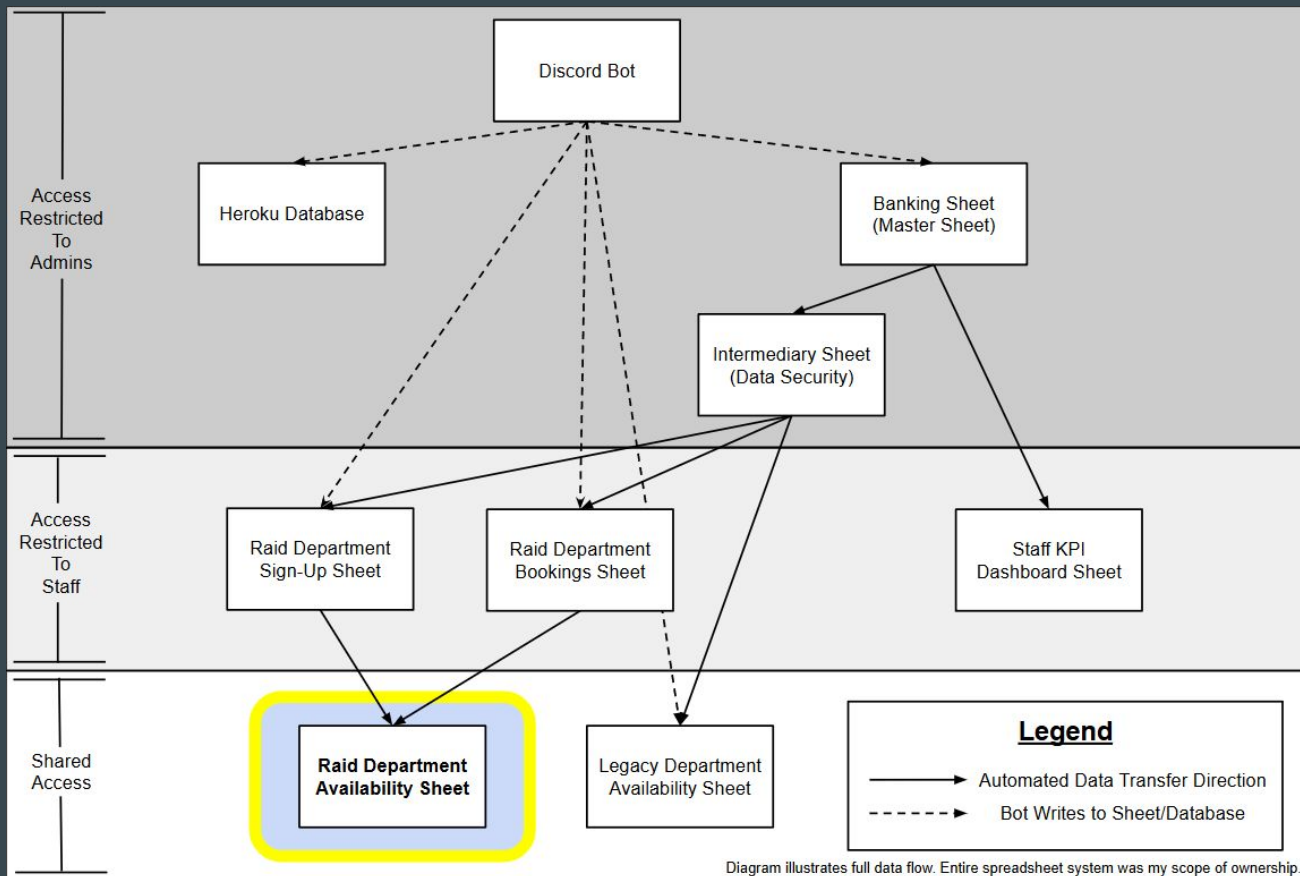
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Data Flow Overview

Examining: Raid Department Availability Sheet

Project Summary

I developed a Decision Support System that automatically transformed raw scheduling data into a centralized analytical calendar. This allowed the department to evaluate pricing and availability before the time of the sale, shifting the process from manual tracking to data-driven oversight across approximately $500K in department sales.

Database

Raid ID	Name	In House / Guild	Difficulty	Date	Time	Buyer Count	Status	Full Clear Left	Micro-offset	Link To Sheet
109304	Pancake (Unsaved)	Guild	Normal	9/22/2024	6:00 PM	8	Automated	0	0.7500000014	Link To Sheet
209303	Soup (Saved)	Guild	Heroic	9/23/2024	5:00 PM	5	Automated	0	0.7083333347	Link To Sheet
109305	In House (Unsaved)	In House	Normal	9/23/2024	5:00 PM	5	Automated	0	0.7083333347	Link To Sheet
209402	Donut (Unsaved)	Guild	Heroic	9/24/2024	5:00 PM	4	Automated	0	0.7083333347	Link To Sheet
109403	Gumbo (Unsaved)	Guild	Normal	9/24/2024	6:30 PM	10	Cancelled	10	0.7708333347	Link To Sheet
109409	Chili (Unsaved)	Guild	Normal	9/24/2024	9:30 PM	10	Automated	0	0.8958333347	Link To Sheet
109401	Peanuts (Unsaved)	Guild	Normal	9/25/2024	8:00 PM	8	Automated	0	0.8333333348	Link To Sheet
209401	Waffles (7/8H Saved)	Guild	Heroic	9/26/2024	4:00 PM	8	Automated	0	0.6666666681	Link To Sheet
109416	In House (Unsaved)	In House	Normal	9/26/2024	5:00 PM	10	Automated	0	0.7083333348	Link To Sheet
109404	Tuna Mayo (Unsaved)	Guild	Normal	9/27/2024	4:00 PM	9	Automated	0	0.6666666681	Link To Sheet
109411	Croissant (Unsaved)	Guild	Normal	9/27/2024	5:00 PM	10	Automated	0	0.7083333348	Link To Sheet
109415	Jam (Unsaved)	Guild	Normal	9/27/2024	6:00 PM	4	Automated	0	0.7500000015	Link To Sheet
109407	Taco (Unsaved)	Guild	Normal	9/27/2024	7:00 PM	10	Automated	0	0.7916666681	Link To Sheet
209405	Sandwich (Saved)	Guild	Heroic	9/27/2024	7:00 PM	5	Automated	0	0.7916666682	Link To Sheet
109412	Eggroll (Unsaved)	Guild	Normal	9/28/2024	5:00 PM	10	Automated	10	0.7083333348	Link To Sheet

Automated

- Upcoming
- Inviting Boosters
- Inviting Buyers
- On Time
- Late
- Cancelled
- In Progress
- Completed
- Automated

- Department-level dataset displaying event timing and availability data during scheduling

- Designed to ensure consistent event ordering in high-volume scenarios with overlapping start times

- Status field supports both manual overrides and automated updates based on proximity to event time

Fully Automated Calendar

The Collective Raid Sheet (All Times are PST)

September 2024

- Aggregated monthly view of all scheduled events

- Primary analytical output of system-wide data structure for the Raid Department

- Supports data-driven pricing adjustments based on demand and availability

- Events contain hyperlinks to associated pages

Associated Event Page

Raid ID:	209403	Boosters:	TBD	Eggroll (7/8H Saved)		Reserved Items
Date:	9/28/2024	Difficulty:	Heroic			All Tank Trinkets | Web-Wrapped Curio | Wings of Shattered Sorrow | Acidic Attendant's Loop
Time:	6:30 PM	Collector:	Holysitbro	**Completed**		

Description	Armor Reserve	Tier Reserve	Class	Reserved Item List	In Group	Spot Filled
Full Clear	Plate	Dreadful	DK	All Tank Trinkets	☑	☑
Full Clear	Mail	Zenith	Evoker	Web-Wrapped Curio | Wings of Shattered Sorrow	☑	☑
Full Clear	None	Venerated	Shaman		☑	☑
Full Clear	Cloth	None	Mage	Acidic Attendant's Loop	☑	☑
Full Clear	Vault Express	None	Warlock		☑	☑
Full Clear	Vault Express	None	Druid		☑	☑
Full Clear	Vault Express	None	Rogue		☑	☑

Click Here to Return To Calendar

Availability

Class	Tier	Armor
DK	Dreadful	Plate
DH	Dreadful	Leather
Druid	Mystic	Leather
Evoker	Zenith	Mail
Hunter	Mystic	Mail
Mage	Mystic	Cloth
Monk	Zenith	Leather
Paladin	Venerated	Plate
Priest	Venerated	Cloth
Rogue	Zenith	Leather
Shaman	Venerated	Mail
Warlock	Dreadful	Cloth
Warrior	Zenith	Plate

List of All Raids on September 28, 2024
(N) Eggroll (Unsaved) @5:00 PM PST
(N) French Fry (Unsaved) @Cancelled PST
(H) Eggroll (7/8H Saved) @6:30 PM PST
(N) Omelette (Unsaved) @8:00 PM PST

- Event pages are generated from a template and auto-populate when staff enter the Raid ID

- Displays finalized event details, reservations, and remaining available space

- Includes workflow tools such as group assignment checkboxes and quick navigation links