TAMR CASE STUDY

INFORMATION ARCHITECTURE STUDY: FROM MVP TO NORTH STAR

INTRODUCTION

In this case study, we focused on transforming the inherited app-based architecture of Tamr, a data mastery SaaS application, into a unified and intuitive experience. This involved addressing key user pain points and aligning with our North Star vision for a seamless, cross-data product experience.



MY ROLE

UX Manager - Cross Team lead

Make sure that both teams are working toward a common goal from a product design perspective.

- The North Star project alongside Design contractors, the CEO, and the Head of Business Development.
- The Tamr apps squad- an internal team comprising the product manager, junior designer, design co-op, documentation team, engineers, and chief architect.

North Star

Concentrating on developing a prototype to demonstrate the capabilities and importance of mastering Machine Learning and Data.

Internal team

Concentrating on enhancing the current market offering for developing a new SaaS product.



UNDERSTANDING THE PRODUCT AND USERS

Tamr is a data mastery SaaS application designed to help organizations clean, organize, and utilize their data at scale using machine learning (ML).

The main users include Data Curators who manage and clean data, Data Engineers who build the data pipeline and Business Users who use the cleaned data for decision-making.







Data Steward

Responsible for making the data is accurate

Data Engineer

Responsible for building, maintaining, and improving the data pipeline

Data Citizen

End user of data using the cleaned data for decision-making

CDO - Chief Data Officer

Wants to see shape over data from a high-level, value of using product

INITIAL CHALLENGES

- Inherited architecture focused on reducing build time. 80% design completed, 20% to finalize. Speed to market was the initial priority.
- App-based structure causes user confusion. Losing potential customers and frustrating current.
- Need for an integrated, userfriendly experience with as little tech debt as possible.



UX RESEARCH & FEEDBACK COLLECTION

Interviews with pre-sales, lost customers, current customers, and internal Tamr users.

Card Sorting with internal and current customers for AI

Paper Prototyping for Navigation Interaction Ideation



The separation of studio and curator experiences was confusing and problematic, especially during demos and presales cycles. There was no overview for data mastery metrics, and navigation issues caused user frustration, impacting the top of the funnel. These insights guided our next steps.

KEY ISSUES IDENTIFIED

Separation of viewing and fixing data into separate apps (studio and curator)

Hard to see value of product: Lack of an overview for data mastery metrics.

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Navigation and Al issues causing user confusion.



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DESIGN THINKING AND PROCESS



Empathize:

Understanding user needs through feedback.







Define

Identifying crucial issues for decision-makers and end users.



Ideate:

Looking at both the North Star project and user needs how can we marry in a lean way, to ship something ASAP

Prototype:

Present ideas to decisionmakers for future potential and gather feedback from current users to iterate quickly and progress continuously.

Test:

User testing and iteration for longer-term fixes to make sure time was well spent. While in tandem using the North Star prototype to gather feedback from potential decision makers.

SHORT-TERM FIXES

In the short term, we made some quick fixes. We increased the prominence for switching between curator and studio, and enhanced the table component by adding features like saving views, filtering by condition, and bookmarking. These improvements provided immediate relief to some of the user pain points.

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۲	Adam Aminoff	Individual	95928283	Checking Basic			15 years, 6 months	(537) 359-2294						
•	Adofo Ahmed	Individual	82495573	Student Checking			6 months	(439) 819-2441						
P	Alex George	Individual	10211119	Student Checking			8 years, 1 month	(435) 430-3463						
	Alphonse Culhane	Individual	92455583	Mortgage Loan Basic, Savings Loan	n Gold		16 years, 9 months	(608) 920-6271						
	Alternative Supplies	Corporation	78474301	Business Loan Advantage, Busines	s Loan	Advant.	1 year, 1 month	(266) 830-4787						
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1	Amy Torff	Individual	93403274	Checkings Basic			9 years, 12 months	(954) 638-7305					A 🛛 🗄	:
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•	Trevor Smith	Individual	12343462	Checking, Savings Premier			11 months	(232) 524-3839		:				
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 Source Datasets 72
 Entities: 1,259

 Name ↓
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	Name 🗸	Customer Type	Legal Entity ID	Products	🗖 Relationship Length	📞 Phone Number
	Acme Corporation	Corporation	82733211	Business Premier Line of Credit	3 years, 2 months	(412) 831-4093
	Adam Aminoff	Individual	95928283	Checking Basic	15 years, 6 months	(537) 359-2294
•	Adofo Ahmed	Individual	82495573	Student Checking	6 months	(439) 819-2441
P	Alex George	Individual	10211119	Student Checking	8 years, 1 month	(435) 430-3463
	Alphonse Culhane	Individual	92455583	Mortgage Loan Basic, Savings Loan Gold	16 years, 9 months	(608) 920-6271
	Alternative Supplies	Corporation	78474301	Business Loan Advantage, Business Loan Advant	1 year, 1 month	(266) 830-4787
	Ambrosia Westervelt	Individual	44951786	Student Savings	4 years	(850) 592-1439
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	Angela Dominquez	Individual	55523942	Checking, Savings, Mortgage Loan Premier	2 years, 2 months	(414) 383-3527
•	Anton Culhane	Individual	19594328	Checking, Savings Premier	11 months	(093) 524-3428
*	Alexa James	Individual	35839232	Student Savings	3 years	(850) 593-3439
-	Andy Torff	Individual	36423324	Checkings Basic	8 years, 12 months	(954) 998-7305
٢	Alice Gonzalez	Individual	23454342	Checking, Savings, Mortgage Loan Premier	1 years, 2 months	(664) 382-3527
•	Trevor Smith	Individual	12343462	Checking, Savings Premier	11 months	(232) 524-3839



NORTH STAR

In the North Star Demo we created a clickable prototype that highlighted the power of clean data throughout the Data eco-system from CDO to end user.

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			Managers	Contact (877) 768-2265 +
			Santander Management List Managers Data Product • Sant	info@santanderbank.com santanderbank.com/contactvendors +:
			Santander Bank Data Product	
			B Frederick Rappaport Grant Manager - Santander Bank	Summary Endpoints Sources Data Products
			Q Santander accounts	
			Q Santander Bank	Santander US CEO, Country Head
			Q Santander consumer UK	(617) 757-3410 [x153]
			Show more results	Y pierre Y timothy.wennes@santanderbank.com
				MARCO ANTONIO ACHÓN Head of Santander Corporate & Investment Banking US, CEO of Sant
				■ marco.achon@santanderbank.com
				KAMRAN PASHA Branch Manager

- ☑ kamran.pasha@santanderbank.com

(617) 757-3410 [x123]



JAMES CROCKER Grant Manager

📞 (617) 757-3000 [x145]

☑ frederick.rappaport@santanderbank...



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LONGER-TERM FIXES

Our long-term goals were ambitious. But after collaboration with engineering we came to solution that would help users with key issues and minimize dev time.

We aimed to unify the studio and curator experiences, create a central home page for data products, and improve the entity detail view.

These changes were crucial for delivering a seamless and intuitive user experience.

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				Data Products	Manage	-
NE custome omers} data	rs 2022 Mid market Ustomers from 2022	7.440	B NE cus Golden	63	69	140
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	Role: Curator LaSt Kt	un 15m ago 🕒	Owner: IC Jordan Capi	tano Role: View	er Last Run 1	5m ago
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	Mastered records	7,449	6 Sources	Mastere	d records	7,449

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Activity Log Source Records ACTIONS Cluster Similar Source **Full Address** Phone Address Line 1 City Records Datasets Entiites 4380 S 1ST ST CA... 6164141180 4380 S 1ST ST CABOT 123 12 2128 NORWICH ST... 8707778719 2128 NORWICH ST 15 BRUNSWICK 185 12 201 ROSCOE RD M ... 6194437712 201 ROSCOE RD MODESTO 63 36 45 65 1126 FERRIS RD A ... 7023620222 1126 FERRIS RD AMELIA 2 15 2334 HARDWICK ... 8583684681 2334 HARDWICK ST DALLAS 68 16 4 5018345353 5122 N STATE RD ... 5122 N STATE RD 39 LA PORTE 85 18 12 420 N FIRST ST S ... 9122652158 420 N FIRST ST SPRINGATTR .. 59 32 35 5139436100 433 HOWARD AVE **EPHRATA** 36 433 HOWARD AVE... 62 3 KAPOLEI 92 35 5 91-607 MALAKOLE ... 2193267890 91-607 MALAKOLE ST 2177449000 514 WORK ST SALINAS 514 WORK ST SAL... 125 38 75 410 E AVE B HOPE 12 410 E AVE B HOPE... 7177389152 124 36

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Owner: Jonathan Coelho (me)	Role: Owner Last F	Run 15m ago	Delete	Role: Curator Last Run 15m ago 🌑
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Owner: Jonathan Coelho (me)	Role: Owner Last R	Run 15m ago 🥚	Owner: Jonathan Coelho (me)	Role: Owner Last Run 15m ago



NE customers 2022 Mid market Golden Corp Customers from 2022			
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	Source records	112,974	
	Mastered Attributes	48	
	Source Attributes	236	
Owner: Jc Jonathan Coelho (me)	Role: Owner Last	Run 15m ago 🛛 🔵	

+ ADD ENTITY TYPE



Entity Log

RE-ARCHITECTURE

Central home page with data product cards.

Consolidated studio and curator functionalities.

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FILTER • NE customers Golden Corp Cust	2022 Mid market itomers from 2022	NE custome	ers 2022 Mid market	NE cus Golden	Data Products	Hanage	:
6 Sources	Mastered records7,449Source records112,974Mastered Attributes48Source Attributes236	Edit Flow Export Data	Mastered records7,449Source records112,974Mastered Attributes48Source Attributes236	6 Sources	Sources Mastered At Source Attri	Run Data 74 tributes 48 butes 23	.9 4 8
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ENHANCED NAVIGATION

To further enhance navigation, we added a new layer of navigation so that now the waffle menu would be used as a global nav above individual projects and task-based navigation options for each card/project.

These industry-standard elements improved usability and allowed users to navigate across data products more efficiently.





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NE customers 2 Golden Corp Custo	022 Mid market omers from 2022	:	NE custome	ers 2022 Mid market
6 Sources	Mastered records 7 Source records 112, Mastered Attributes Source Attributes	7,449 ,974 48 236	Edit Flow Export Data	Mastered records7,449Source records112,974Mastered Attributes48Source Attributes236
Owner: Jonathan Coelho (me)	Role: Owner Last Run 15m	n ago	Delete	Role: Curator Last Run 15m ago 🥥
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Owner: Jonathan Coelho (me)	Role: Owner Last Run 15m	n ago 🔴	Owner: JC Jonathan Coelho (me)	Role: Owner Last Run 15m ago 🔴





	Customers	•
≡	Customers (34,566) Source	ce Records Insights
	Company Name 🗸	Full Address
	A & A FIRE AND SAFETY COM	4380 S 1ST ST CA
	A & A FIRE PROTECTION, INC.	2128 NORWICH ST
	A & A SAFETY, INC.	201 ROSCOE RD M
	A & A SHEET METAL CO INC	1126 FERRIS RD A
	A & A SHEET METAL PRODUC	2334 HARDWICK
	A & A TELEMESSAGING SERV	5122 N STATE RD
	A & B CLEANING	420 N FIRST ST S
	A & B FIRE SYSTEMS, INC.	433 HOWARD AVE
	A & B MACHINE & WELDING INC	91-607 MALAKOLE
	A & B MACHINING, INC.	514 WORK ST SAL
	A & B SAW & LAWNMOWER SH	410 E AVE B HOPE
₽ ⊐	A & R SECURITY GROUP INC	335 N GRIFFIN ST

	Customers	•		
	ducts	Source Records A	ctivity Log	
View {C	ustomers} Data	Full Address	Phone	Address Line 1
Edit Flo	ow.	4380 S 1ST ST CA	6164141180	4380 S 1ST ST
Export Data	Data	2128 NORWICH ST	8707778719	2128 NORWICH ST
		201 ROSCOE RD M	6194437712	201 ROSCOE RD
		1126 FERRIS RD A	7023620222	1126 FERRIS RD
		2334 HARDWICK	8583684681	2334 HARDWICK S
		5122 N STATE RD	5018345353	5122 N STATE RD 3
		420 N FIRST ST S	9122652158	420 N FIRST ST
		433 HOWARD AVE	5139436100	433 HOWARD AVE
		91-607 MALAKOLE	2193267890	91-607 MALAKOLE
		514 WORK ST SAL	2177449000	514 WORK ST
		. 410 E AVE B HOPE	7177389152	410 E AVE B
		335 N GRIFFIN ST	8567830614	335 N GRIFFIN ST

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ACTIONS -

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Address Line 1	City	Cluster Records	Source Datasets	Similar Entiites
4380 S 1ST ST	САВОТ	123	12	4
2128 NORWICH ST	BRUNSWICK	185	15	12
201 ROSCOE RD	MODESTO	63	36	45
126 FERRIS RD	AMELIA	65	2	15
2334 HARDWICK ST	DALLAS	68	16	4
5122 N STATE RD 39	LA PORTE	85	18	12
120 N FIRST ST	SPRINGATTR	59	32	35
133 HOWARD AVE	EPHRATA	62	36	3
91-607 MALAKOLE ST	KAPOLEI	92	35	5
514 WORK ST	SALINAS	125	38	75
10 E AVE B	HOPE	124	12	36

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NORTH STAR ENTITY DETAIL VIEW

We redesigned the entity detail view to provide a clean and comprehensive overview of entity data.

The North Star vision for this view includes cross-data product insights, making it easier to manage and analyze data. This advanced view leverages machine learning to identify similar entities and provide valuable insights

The idea was this page would be seen across many products inside the data ecosystem for source data like salesforce and hubspot and in end user consumption like Qlik and other Analytics platforms.

📥 Golden Corp 🛛 🔾		
Customers (84,931) Last up	odated 14 Jan 20	
SANTANDER BANK	actvendors +;	
Summary Endpoints Sources	Data Produc	
Name \checkmark	Title	
WINOTHY H. WENNES	Santander	
WIERRE HABIS	Head of Co	
JOSEPH F. ABRUZZO	Head of Co	
MICHAEL LEE	Managing D	
MARCO ANTONIO ACHÓN	Head of Sar	
EVELYNN BISHOP	Senior Acco	
JERRY LEVINE	Senior Fina	
JAMES CROCKER	Director of	
& KAMRAN PASHA	Branch Mar	
WARDERICK RAPPAPORT	Grant Mana	

Search		56 Data Product Types + 🛛 🕐 🏭 🅡
022 (V_2022.01.14.0001)		FEEDBACK 🚺 💄 SHARE PUBLISH 🚺
		Last updated 14 Aug 2022 (V_2022.01.14.0005)
Sales Representative Christopher Mack (837) 209-2938 [x234] + c.mack@goldencorp.com	30 Sources 354 Fields 345 Source Records	 Adam Aminoff Curator Adofo Ahmed Curator Alex George Citizen, Curator

ts

	Phone	Email
US CEO, Country Head President and Chief E	(617) 757-3410 [x153]	timothy.wennes@santanderbank.com
nsumer & Business Banking	(877) 768-2265 [x128]	pierre.habis@santanderbank.com
mmercial Banking	(877) 768-2265 [x174]	joseph.abruzzo@santanderbank.com
Director of Commercial Real Estate Banking	(870) 777-8719 [x247]	michael.lee@santanderbank.com
ntander Corporate & Investment Banking US	(888) 222-4227 [x129]	marco.achon@santanderbank.com
ount Manager, Santander Bank US	(877) 768-2265 [x178]	evelynn.bishop@goldencorp.com
ncial Consultant	(212) 407-7812 [x200]	jerry.levine@goldencorp.com
Operations	(501) 834-5353 [x189]	james.crocker@santanderbank.com
nager	(617) 757-3410 [x123]	kamran.pasha@santanderbank.com
ger	(617) 757-3000 [x145]	frederick.rappaport@santanderbank.com

DATA METRICS AND INSIGHTS

The new architecture included a data metrics dashboard.

Users could view metrics for data clusters, track changes, and monitor overrides. This feature allowed for deeper understanding of the value of Tamr. As well as monitor from a high level the health fo their data.

USER TESTING

The new architecture included a data metrics dashboard.

Users could view metrics for data clusters, track changes, and monitor overrides. This feature allowed for deeper understanding of the value of Tamr. As well as monitor from a high level the health fo their data.

Card Sorting confirmed that New IA was the correct direction to move. user preferred task based navigation rather than persona-based. Users preferred the combined studio and curator experience as those sets of tools are used in tandem. The combination eliminated ping-ponging and getting lost.

KEY OUTCOMES

Re-architecture

Current users experienced eliminated barriers, a reduction in rage-clicking around the UI, and fewer bugs, resulting in a reduction in negative feedback about getting lost in the product.

Merged curator and studio:

The sales funnel saw a significant reduction in objections, with UX improvements addressing customer service issues, allowing the product value to shine.

(Reduced loss to more mature products with real-time integration, eliminating the need for users to re-publish data in third parties.)

Insights & Metrics:

Created opportunity for white-labeling of product with Dunn & Bradstreet and opened up to see the value of paid enrichment marketplace for future.