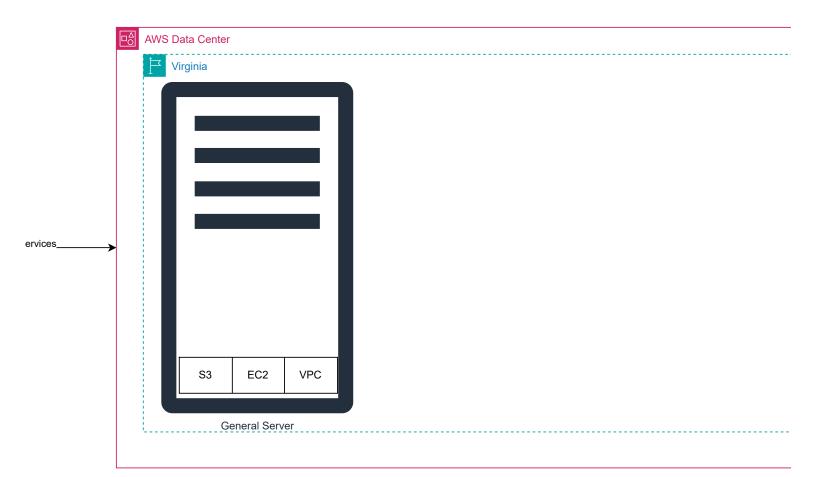
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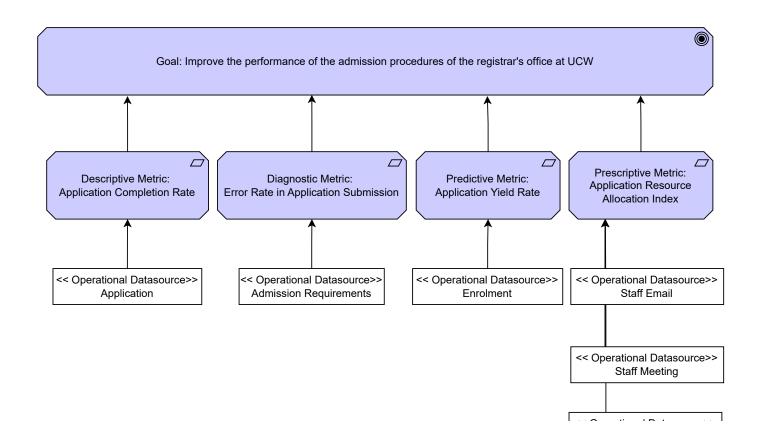




Step #1: Data Analytical Question Formulation

Step #2: Data Discovery

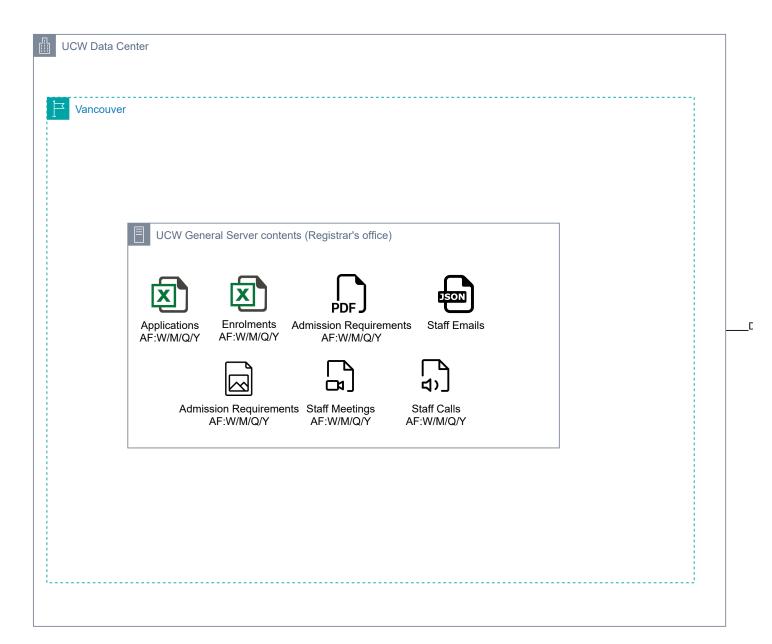
Step #4: Test Dataset Generation

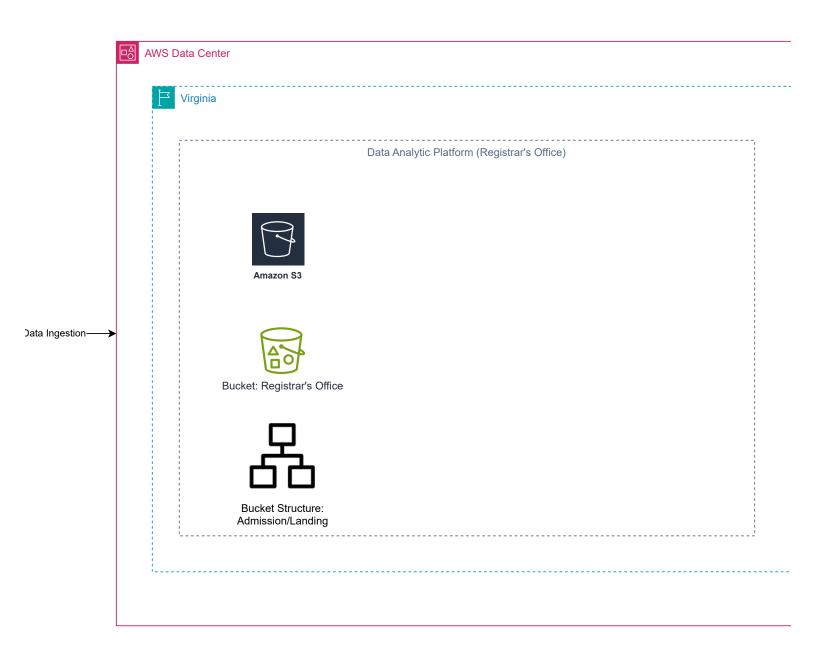


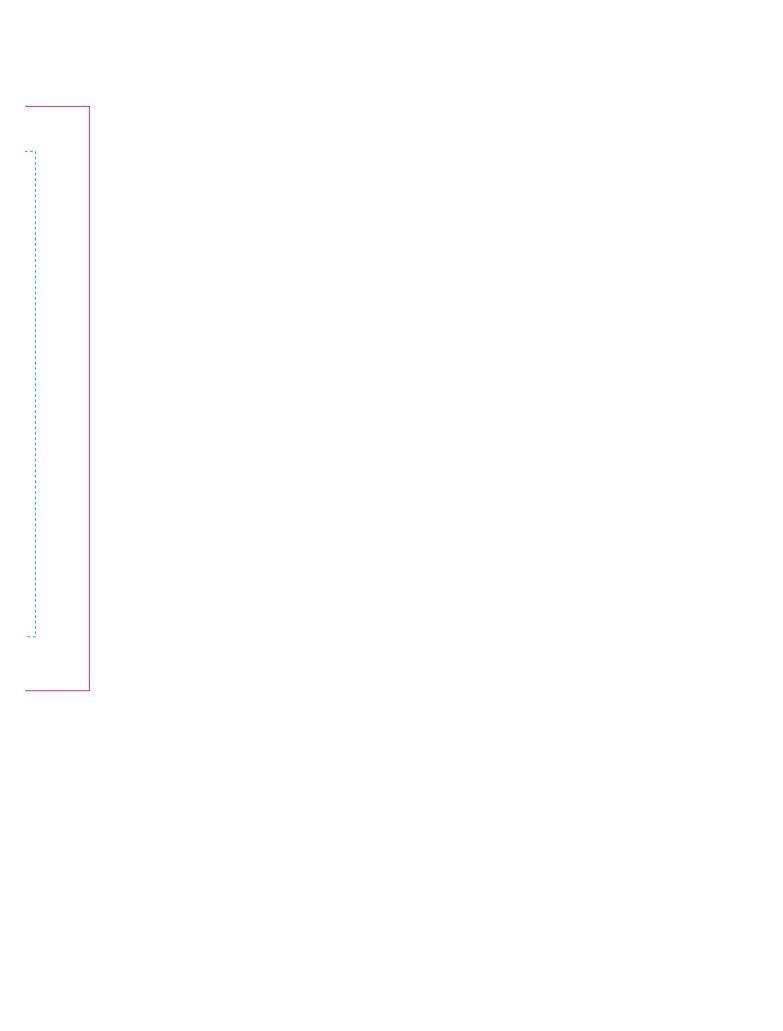
Step #3: Data Storage Design

Step #5: Data Ingestion

Step #6: Data Storage





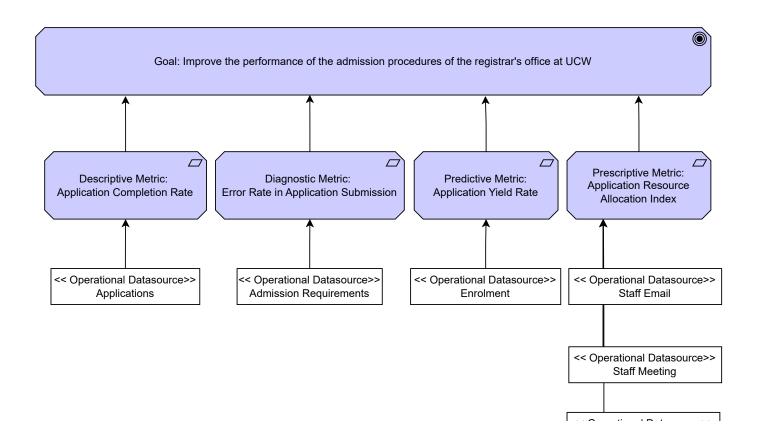


Step #1: Data Analytical Question Formulation

Step #2: Data Discovery

Step #4: Test Dataset Generation

Step #7: Data Pipeline Design



Step #3: Data Storage Design

Step #5: Data Ingestion

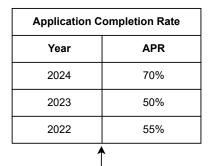
Step #6: Data Storage

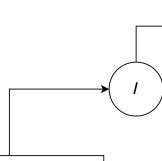
Step #8: Data Cleaning

Step #9: Data Structuring

Step #10: Data Pipeline Implementation

ApplicationID	
1	
3	





Number of Completed Applications			
Year	NCA		
2024	140		
2023	100		
2022	110		

Number of Received Applications		
Year	NRA	
2024	200	
2023	200	
2022	200	

100

Count Each Group

CompletedApplications

ApplicationCompleted	ApplicationDate
Yes	2024-06-01
Yes	2024-06-03

Yes	2024-06-01
Yes	2024-06-03
Group	

Applications		
ApplicationID	ApplicationDate	
1	2024	
3	2024	
2	2023	
A		

Group

Count

Each

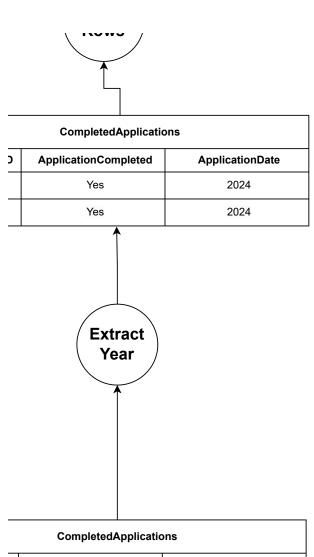
Group

ApplicationIC
1
3

ApplicationID
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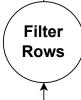
App



Applications				
ApplicationID ApplicationDate				
1	2024			
2 2023				
3 2024				
<u> </u>				

Applications				
ApplicationID	ApplicationDate			
1	2024-06-01			
2	2023-06-02			
3	2024-06-03			

)	ApplicationCompleted	ApplicationDate
	Yes	2024-06-01
	Yes	2024-06-03





Extract

Year

CompletedApplications

licationID	ApplicationCompleted	ApplicationDate
1	Yes	2024-06-01
2	No	2023-06-02
3	Yes	2024-06-03

ApplicationID	FirstName	LastName	DateofBirth
1	John	Smith	2000-01-15
2	Jane	Doe	1999-05-22
3	Micheal	Brown	2001-11-30

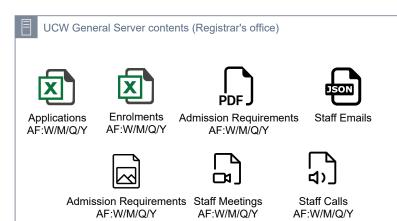
	Applications				
Gender	ApplicationDate	DesiredMajor	Email	PhoneNumber	Address
М	2024-06-01	Computer	john.smith@example.com	555-1234	123 Elm St
F	2023-06-02	Biology	jane.doe@example.com	555-5678	456 Oak St
М	2024-06-03	Mathematics	michael.brown@example.com	555-8765	789 Pine St

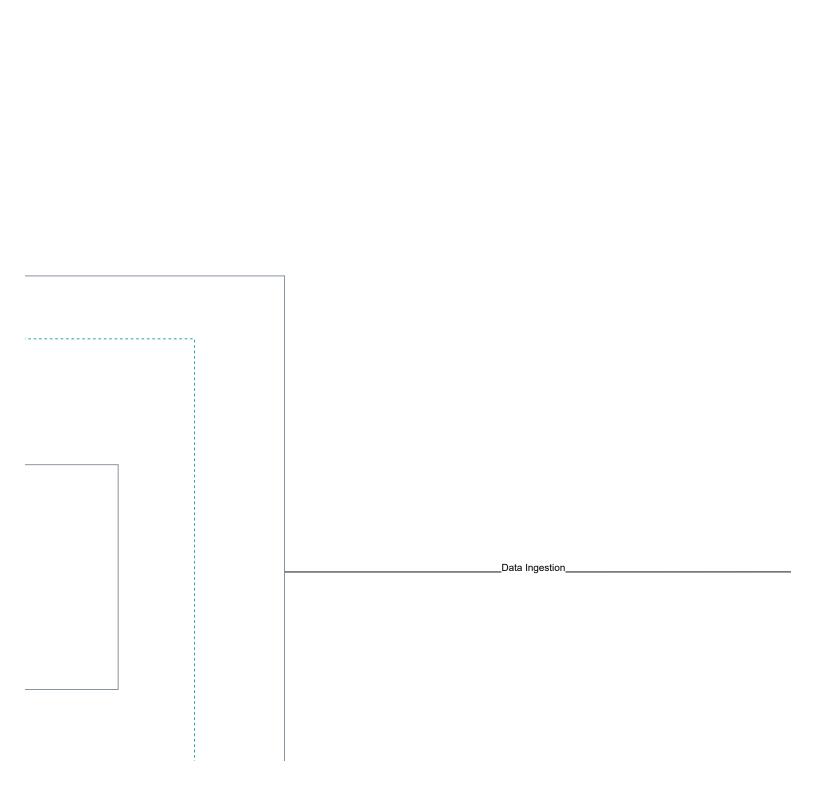


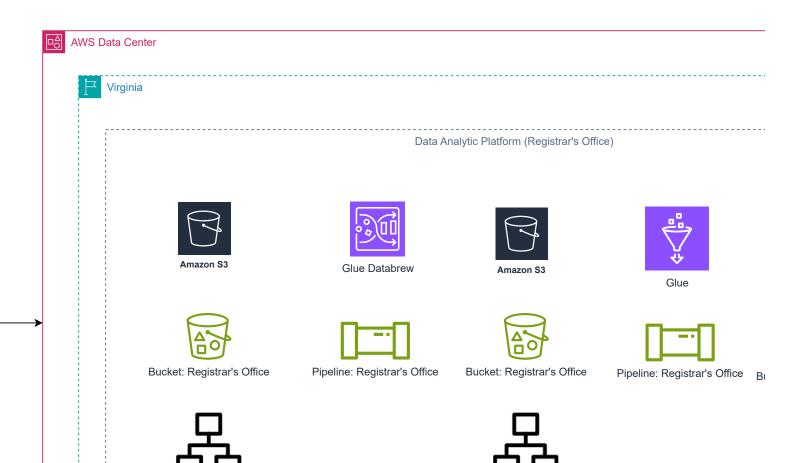
UCW Data Center



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Bucket Structure:

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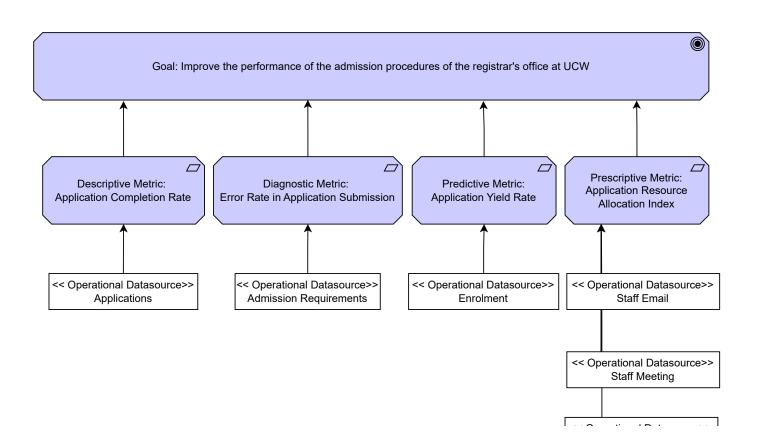
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Step #1: Data Analytical Question Formulation

Step #2: Data Discovery

Step #4: Test Dataset Generation

Step #7: Data Pipeline Design



Step #3: Data Storage Design

Step #5: Data Ingestion

Step #6: Data Storage

Step #9: Data Structuring

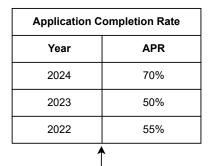
Step #10: Data Pipeline Implementation

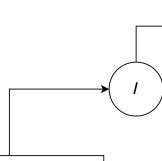
Step #11: Data Analysis

Step #12: Data Visualization

Step #13: Data Publishing

ApplicationID	
1	
3	





Number of Completed Applications				
Year NCA				
2024	140			
2023	100			
2022 110				

Number of Received Applications			
Year NRA			
2024	200		
2023	200		
2022 200			

Count Each Group

CompletedApplications

ApplicationCompleted	ApplicationDate	
Yes	2024-06-01	
Yes	2024-06-03	

Yes	2024-06-01
Yes	2024-06-03
Group	

Applications				
ApplicationID ApplicationDate				
1	2024			
3	2024			
2 2023				
A				

Group

Count

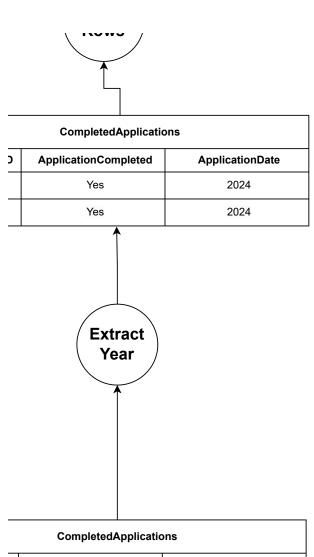
Each

Group

ApplicationIC
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ApplicationID
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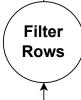
App



Applications			
ApplicationID	ApplicationDate		
1	2024		
2	2023		
3 2024			
<u> </u>			

Applications			
ApplicationID	ApplicationDate		
1	2024-06-01		
2	2023-06-02		
3	2024-06-03		

)	ApplicationCompleted	ApplicationDate
	Yes	2024-06-01
	Yes	2024-06-03





Extract

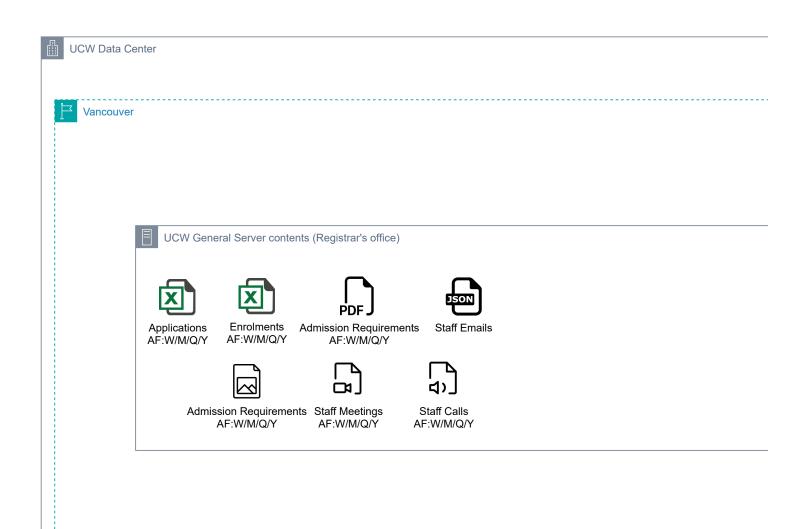
Year

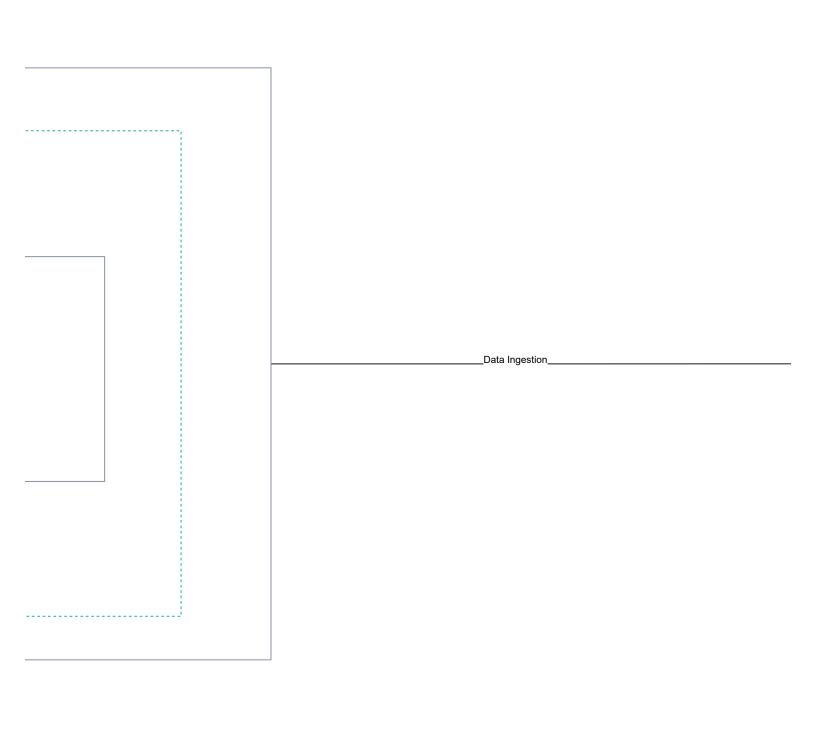
CompletedApplications

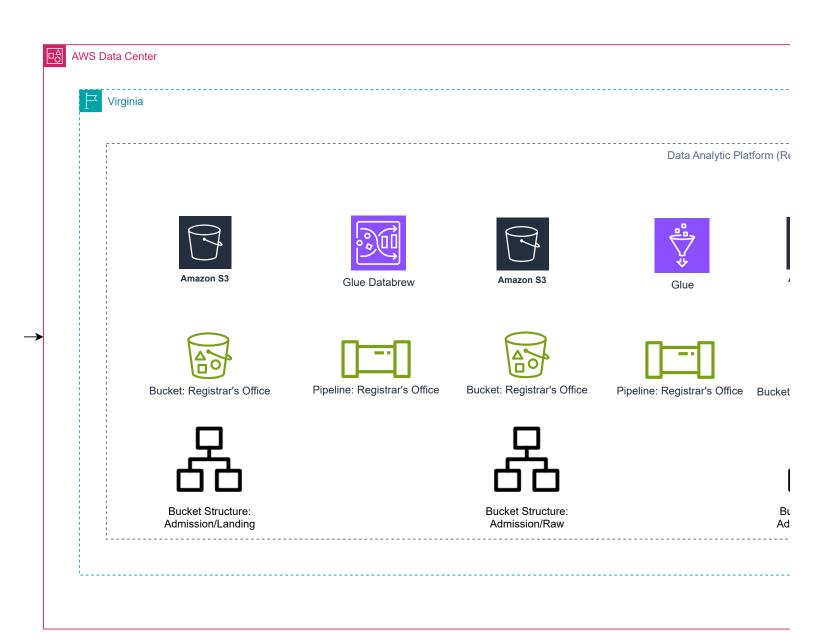
licationID	ApplicationCompleted	ApplicationDate
1	Yes	2024-06-01
2	No	2023-06-02
3	Yes	2024-06-03

ApplicationID	FirstName	LastName	DateofBirth
1	John	Smith	2000-01-15
2	Jane	Doe	1999-05-22
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	Applications				
Gender	ApplicationDate	DesiredMajor	Email	PhoneNumber	Address
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F	2023-06-02	Biology	jane.doe@example.com	555-5678	456 Oak St
М	2024-06-03	Mathematics	michael.brown@example.com	555-8765	789 Pine St







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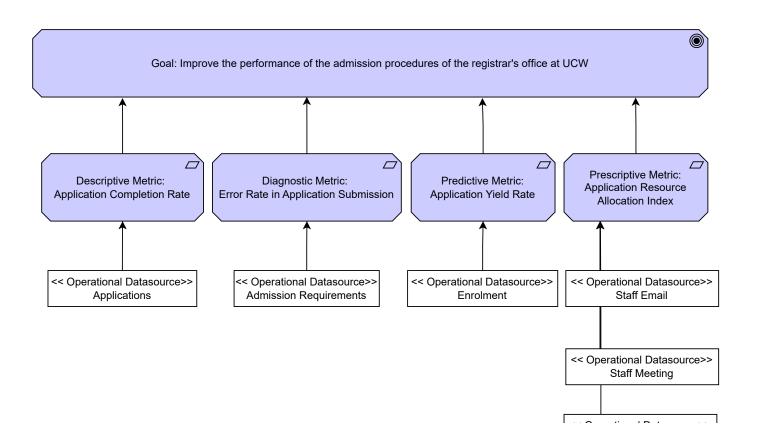
Step #1: Data Analytical Question Formulation

Step #2: Data Discovery

Step #4: Test Dataset Generation

Step #7: Data Pipeline Design

Step #13: Data Enriching



Step #3: Data Storage Design

Step #5: Data Ingestion

Step #6: Data Storage

Step #9: Data Structuring

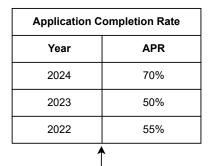
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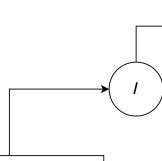
Step #11: Data Analysis

Step #12: Data Visualization

Step #13: Data Publishing

ApplicationID	
1	
3	





Number of Completed Applications			
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<u> </u>			

Number of Received Applications		
Year	NRA	
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CompletedApplications

ApplicationCompleted	ApplicationDate
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Yes	2024-06-01
Yes	2024-06-03
Group	

Applications			
ApplicationID	ApplicationDate		
1	2024		
3	2024		
2	2023		
<u> </u>			

Group

Count

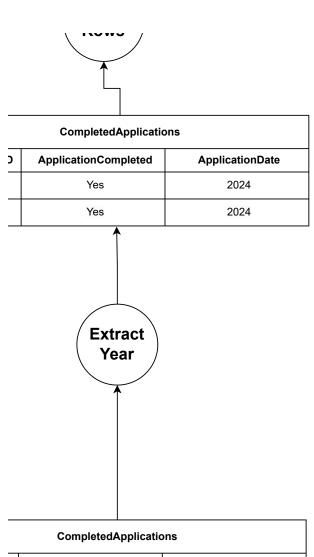
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Group

ApplicationIC
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ApplicationID
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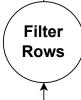
App



Applications		
ApplicationID	ApplicationDate	
1	2024	
2	2023	
3	2024	
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Applications		
ApplicationID ApplicationDa		
1	2024-06-01	
2	2023-06-02	
3	2024-06-03	

)	ApplicationCompleted	ApplicationDate
	Yes	2024-06-01
	Yes	2024-06-03





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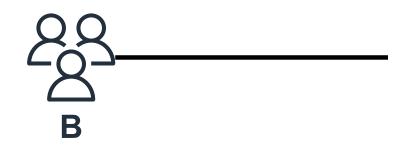
Year

CompletedApplications

licationID	ApplicationCompleted	ApplicationDate
1	Yes	2024-06-01
2	No	2023-06-02
3	Yes	2024-06-03

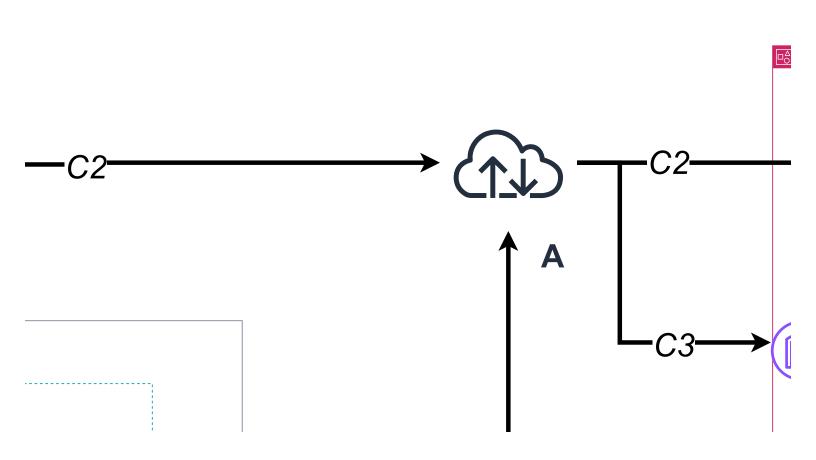
ApplicationID	FirstName	LastName	DateofBirth
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2	Jane	Doe	1999-05-22
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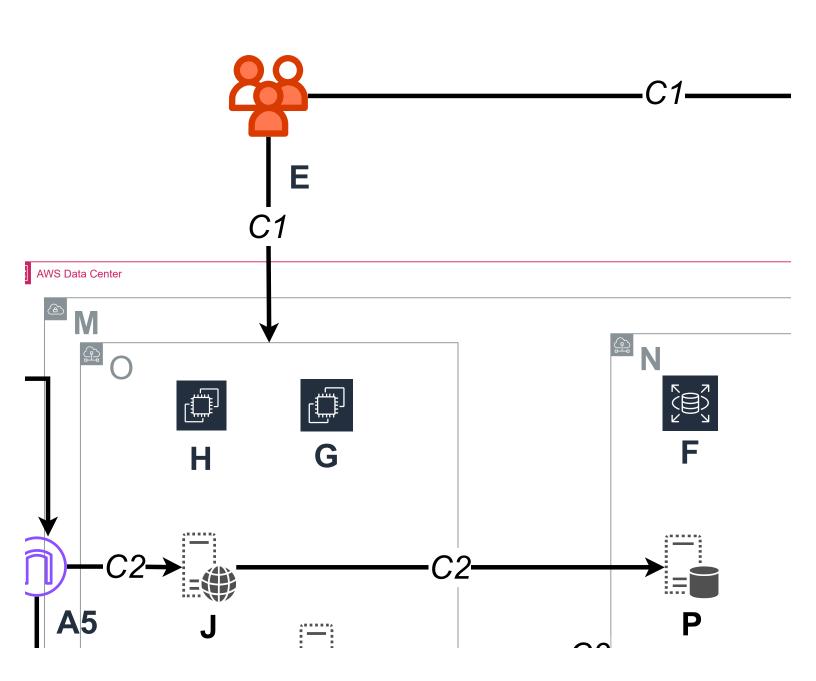
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М	2024-06-03	Mathematics	michael.brown@example.com	555-8765	789 Pine St

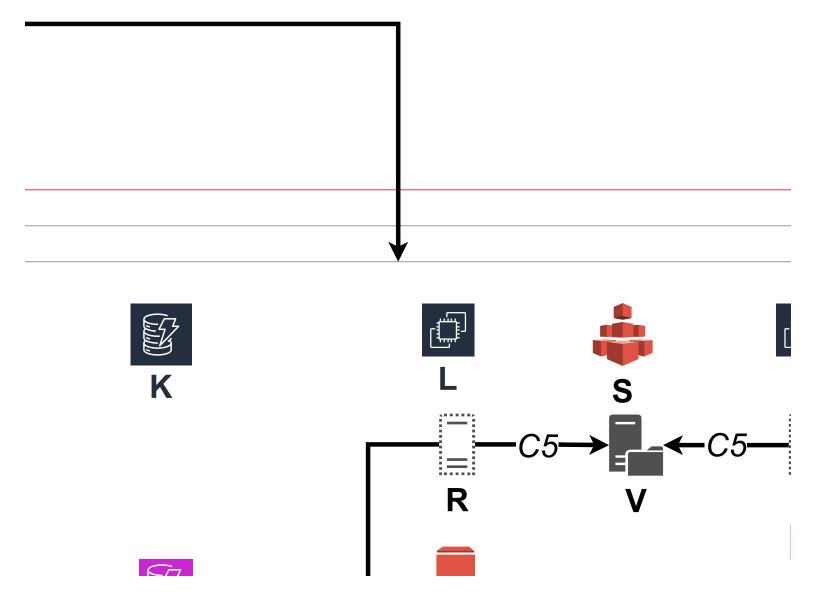


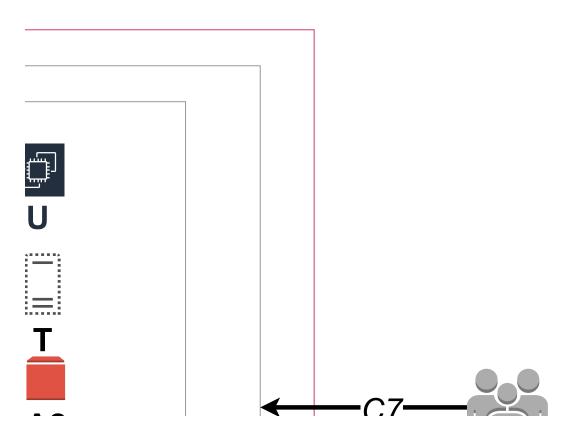
UCW Data Center











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С	OPERATION TEAM
C6	DATA INGESTION FLOV
В	END USER
A	INTERNET
J	STRUCTURE WEB SERVI
I	SEMI- STRUCTURE WEB SE
Р	STRUCTURE DATABASE SE
A3	SEMI-STRUCTURE DATABASE
C3	SEMI- STRUCTURAL DATAF

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UCW General Server contents (Registrar's office)







Enrolments AF:W/M/Q/Y



Admission Requirements AF:W/M/Q/Y



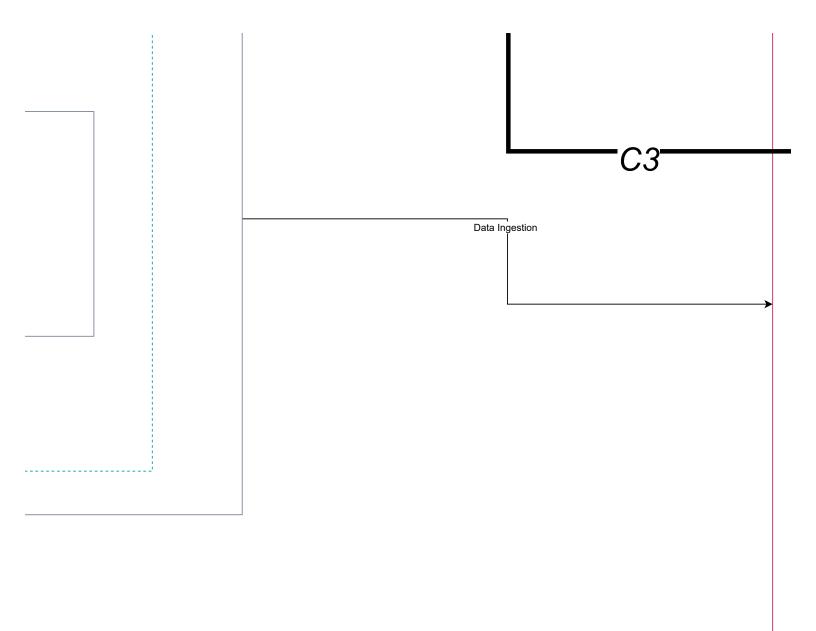


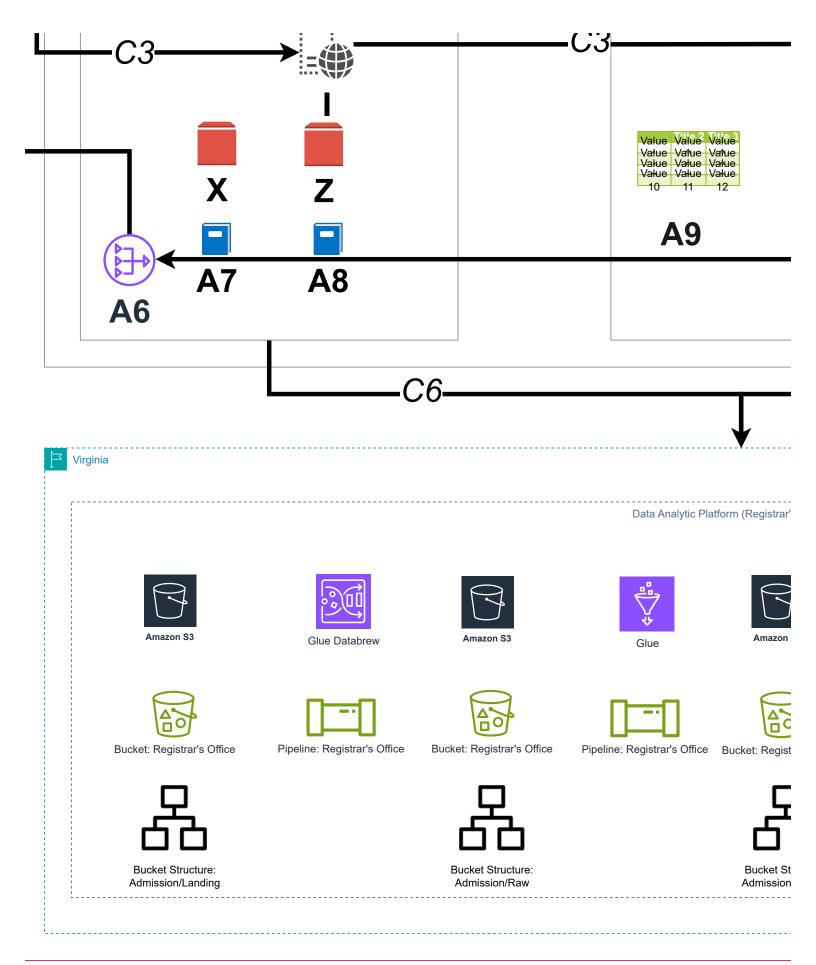


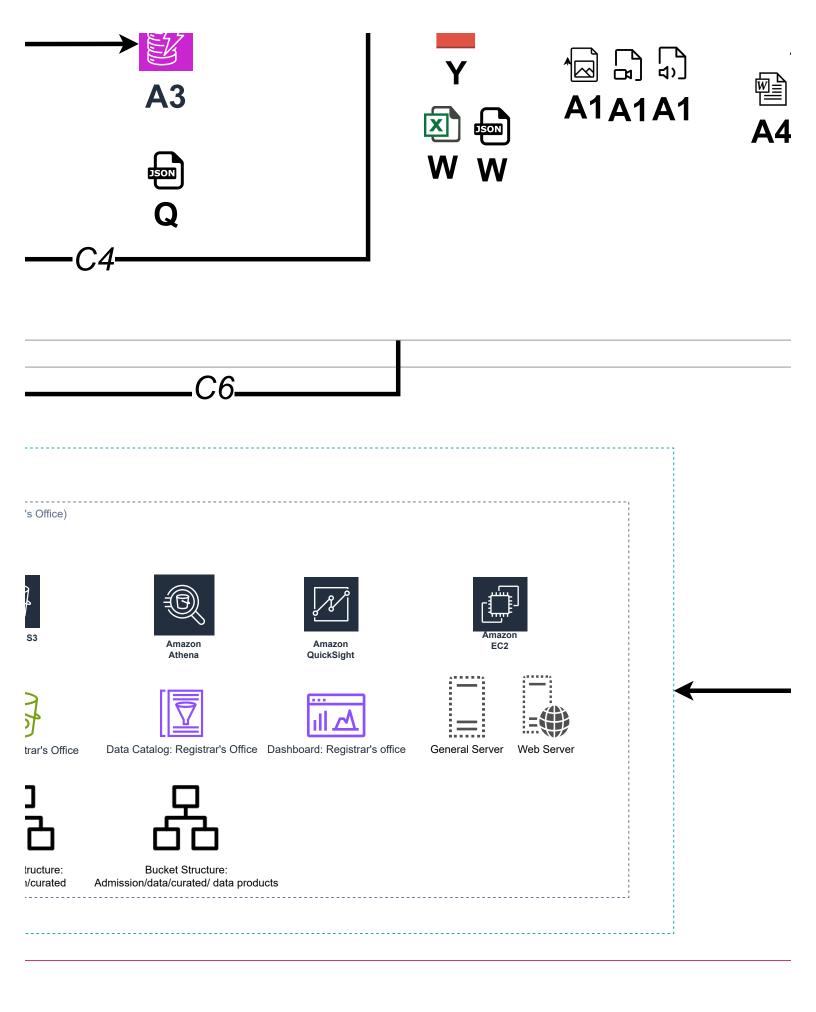


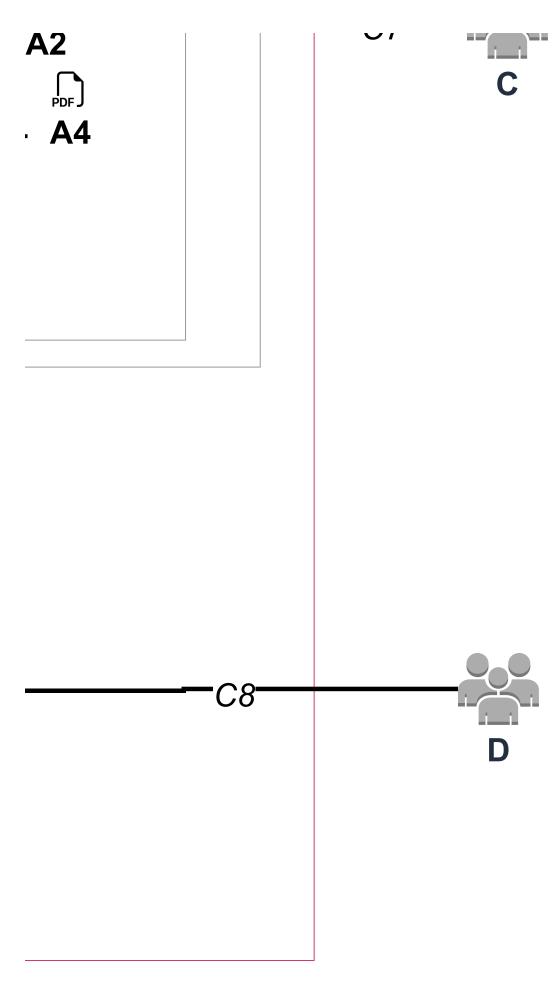


Staff Calls AF:W/M/Q/Y









CLICK STRINGS		
SEMI-STRUCTURE DATAS		
STORAGE VOLUME		
STRUCTURE DATASET		
GENERAL SERVER		
HUMAN GENERATED DATA		
FILE SERVER		
PUBLIC SUBNET		
PRIVATE SUBNET		
VPC		
AWS EC2		
AWS RDS		
AWS DYNAMODB		
INTERNET GATEWAY		
NAT GATEWAY		

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