Project Insight

MATTHEW CLEMENCE, JULIO BONILLA, RYAN DRAKE, DYLAN VAUGHN, LOGAN REED

Ponga

What is Ponga?

The Problem

Project Insights First Stage

Value Propositions



Value Propositions

•What are they?

Reese's



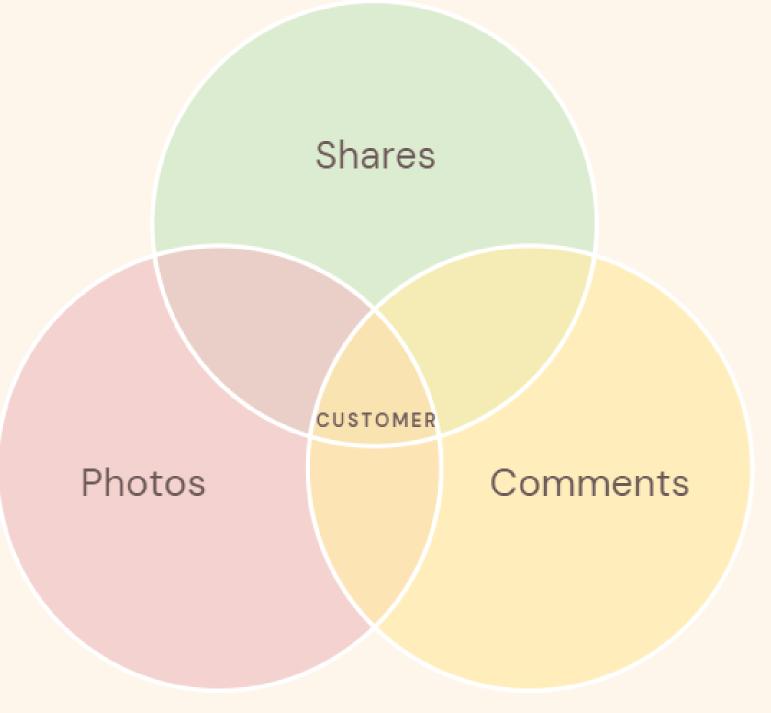
First Stage

Collect Data

Analyze and return

Amazon Web Services:

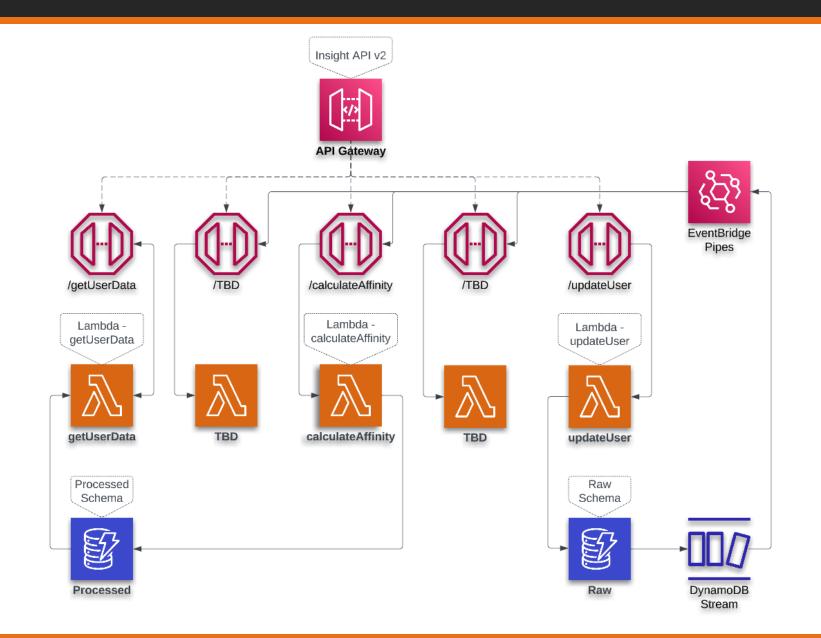
- API Gateway
- EventBridge Pipes
- Lambda Functions
- DynamoDB



Project Prospects

- Define a healthy user
- Create user states
- Ponga takes action based on user's state
- Goal is self-run program











Enrichment (optional)

Transform your event or pull additional data into it using Lambda, Step Functions, or an API.



Target

Send your event to an Amazon service, an event bus, or an API destination.

Source

Receive events from a variety of sources, including DynamoDB, Kinesis, and SQS.

Filtering (optional)

Define an event pattern to filter the events that are sent through the pipe.

EventBridge Pipes

Captures, filters and delivers events.

exports.handler = async (event, context) AWS.DynamoD8.DocumentClient() console.log(JSON.stringify(event, 0, null)); const angles = []; var vectorSum = 0; var Data = JSON.parse(event.body).dynamodb.NewTwage. var numVar = Object.keys(Data).lengt;; function calculateAngles() { let iter = 0; for (let i = 0; i < numVar; i++) {</pre> for (let j = i+1; j < numVar; j=) (let relationshipName let angVal = Nath let dominantProp Determine the dominant proposition intprop - "Equilization"

9

10

11

12

13 14

15

16

17

18

19

20

21

22

24

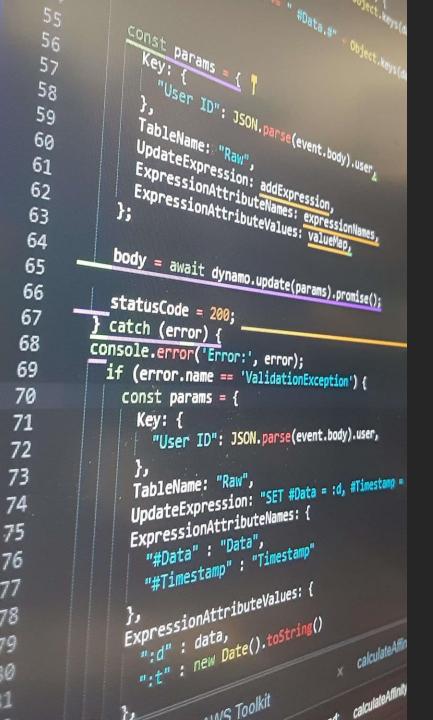
25

27 28 29

31

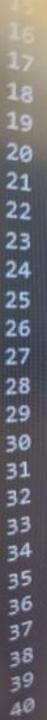
Lambda calculateAffinity

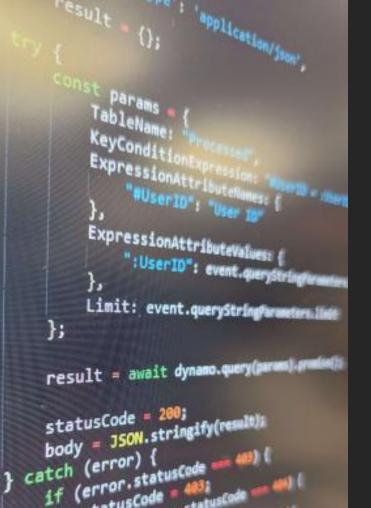
- Receives an event from an EventBridge pipe containing user data
- Calculates the magnitude and N angles determined by the equation N*(N-1)/2
- These angles express the relationships between each value proposition
- Stored in the processed table with an attribute called Dominant to improve readability



Lambda - updateUser

- Simple update functionality
- Creates new records if user does not exist
- Can take in N value propositions





(error, statuscode

statusCode

Lambda - getUserData

- Simple retrieve functionality ۲
- Has a MB limit imposed by DynamoDB
- Client can run another query to retrieve remaining records

Thanks for listening!