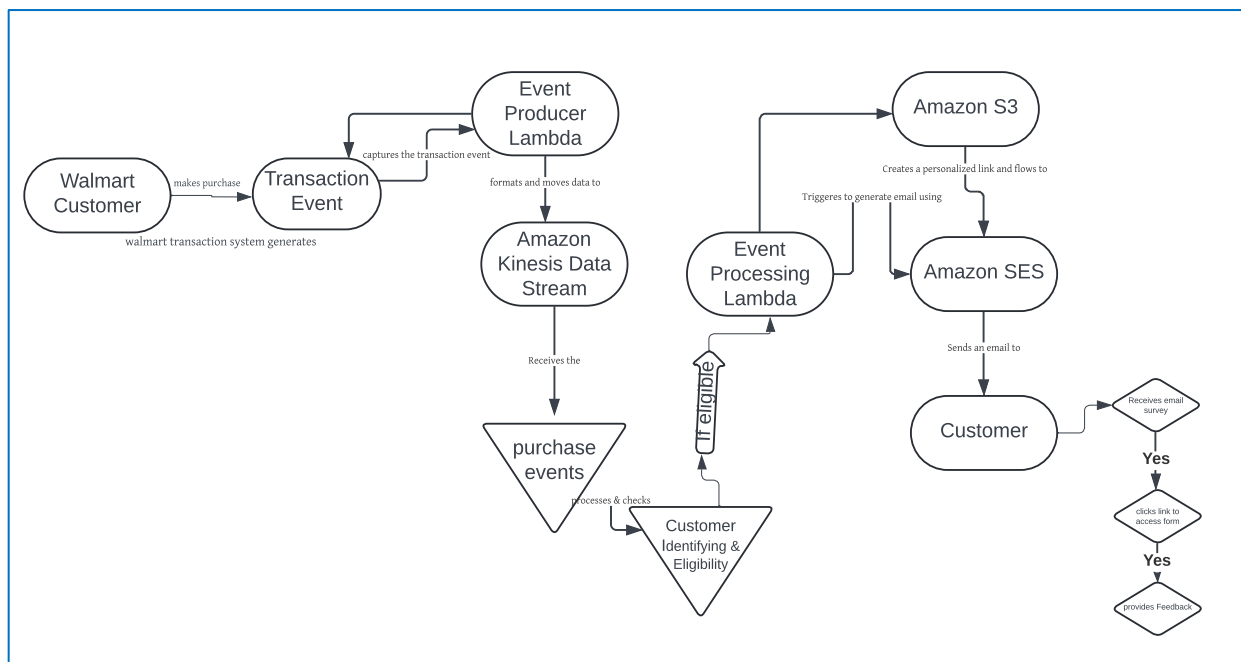


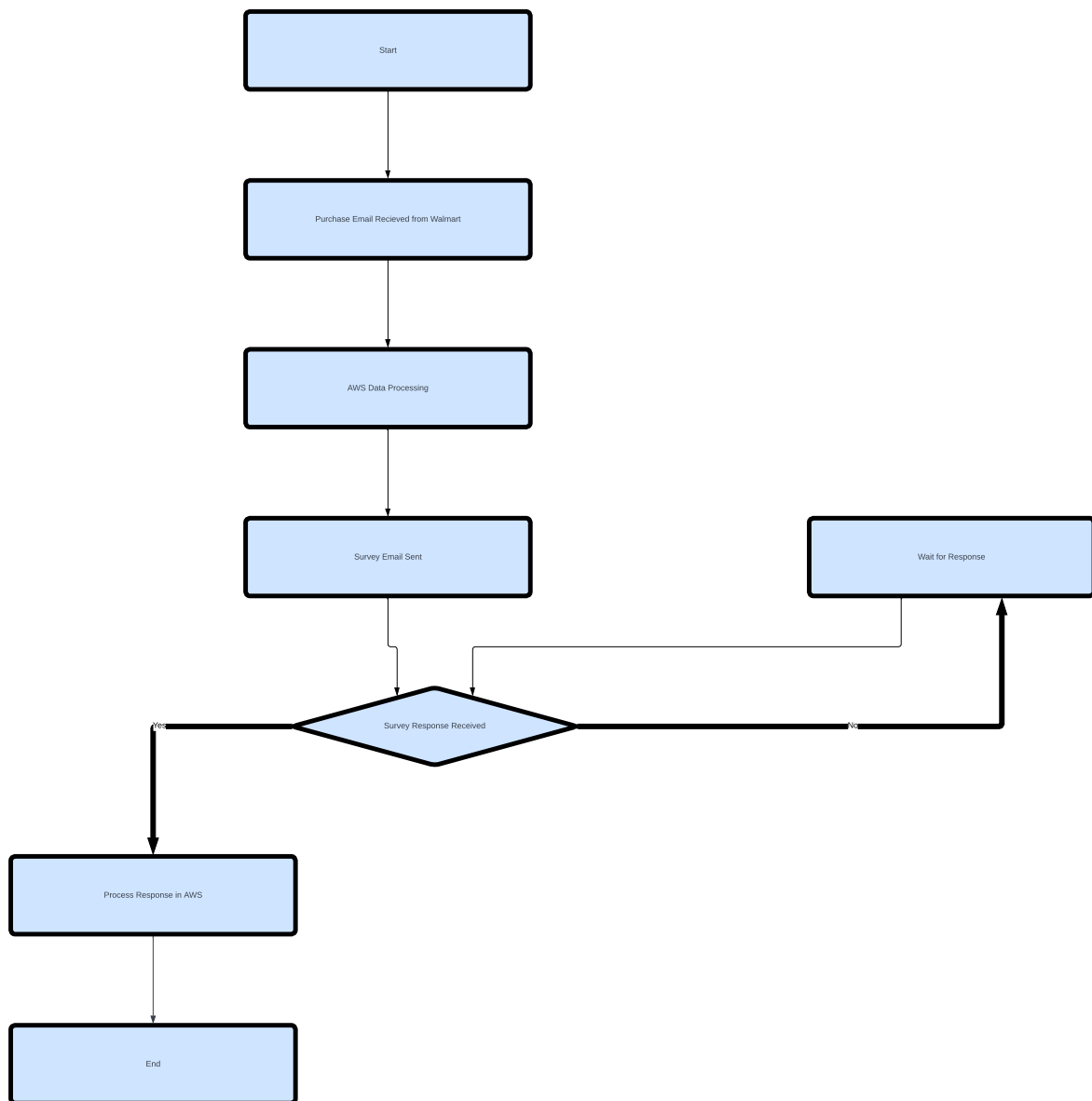
## Assignment: AWS

1.)Flow:

1. A customer makes a purchase at a Walmart store, and the Walmart Transaction System generates a transaction event.
2. The Event Producer Lambda captures the transaction event and formats the relevant data.
3. Formatted data is then published to the Amazon Kinesis Data Stream.
4. The Event Processing Lambda subscribes to the Kinesis Data Stream and receives the purchase events.
5. It processes the purchase events, including identifying the customer and determining if they are eligible for an email survey.
6. If eligible, the Event Processing Lambda triggers the generation of an email survey using Amazon SES. The survey includes a personalized link to the survey form hosted on Amazon S3.
7. Amazon SES sends the email survey to the customer's email address.
8. The customer receives the email survey, clicks on the link to access the survey form, and provides feedback.

This architecture provides a scalable and efficient solution for sending email surveys to Walmart customers based on their purchase transactions, utilizing various AWS services for data processing, storage, and email delivery.





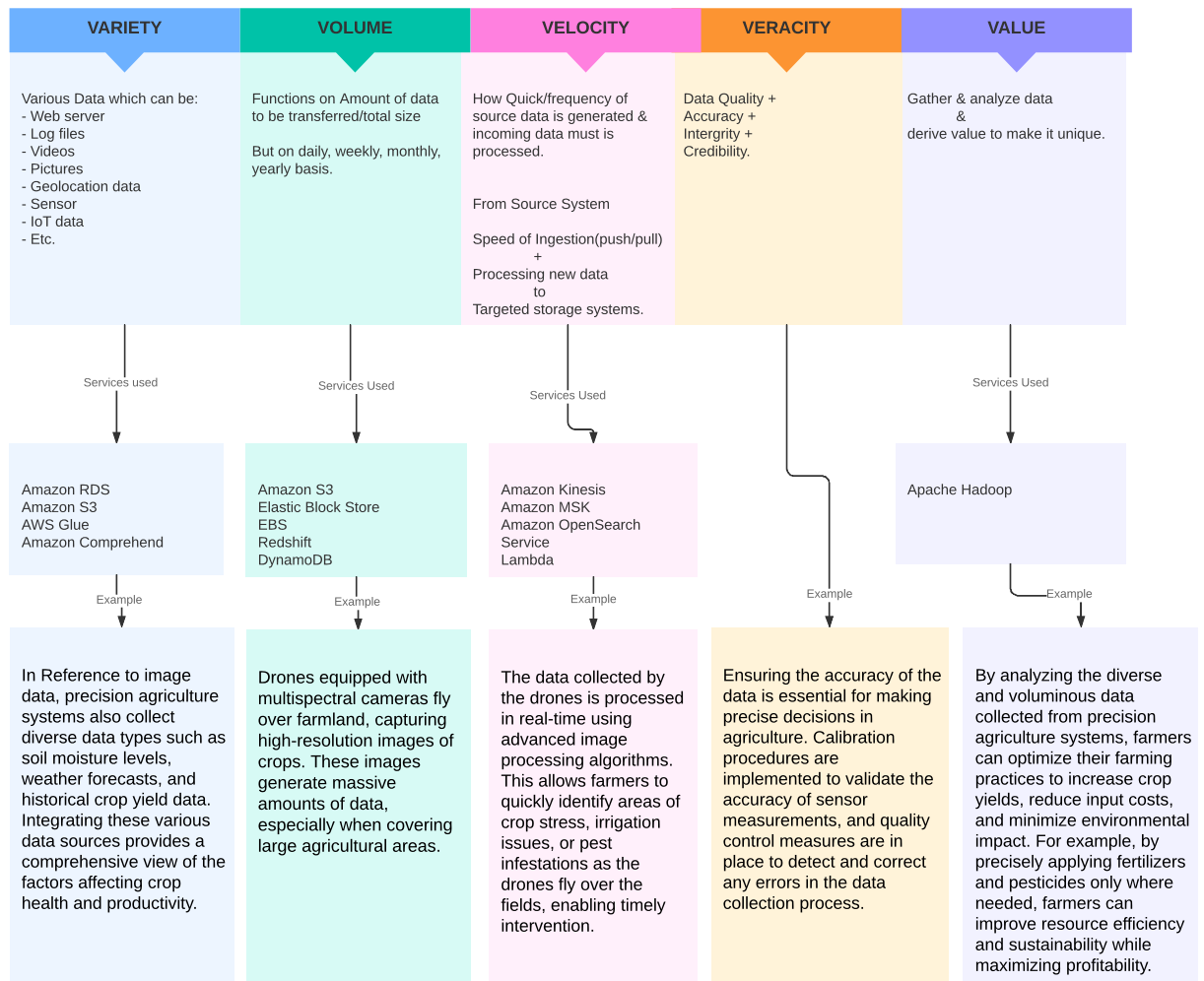
2.)

- Data Realm
- Data Ops
- Data Mesh
- Data Lineage
- Monolith Service Architecture
- Data Ingestion
- Usage of Aws Services tools

3.)

## 5 V's of Data

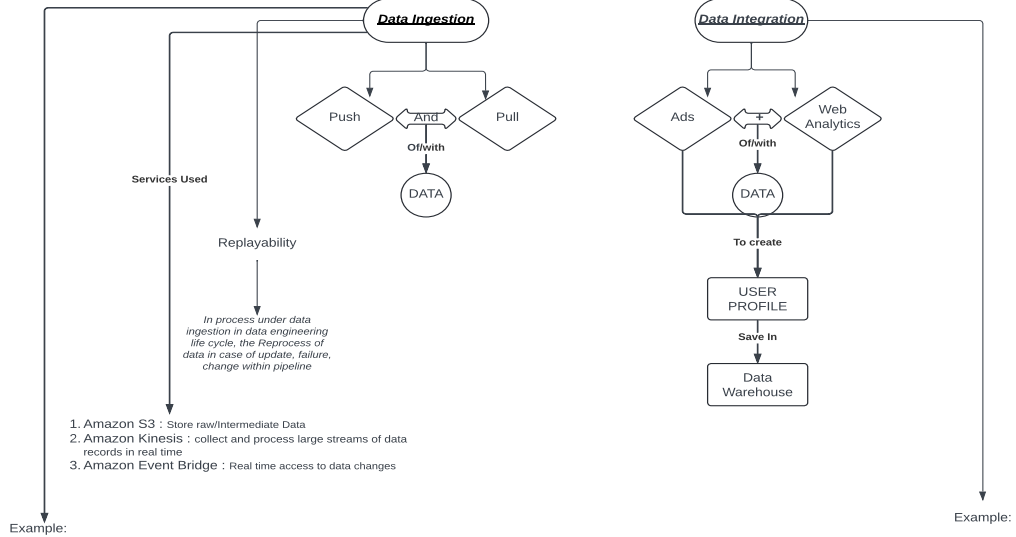
### 5V'S Of DATA



4.)

Moving data from one place to another. Point 1 to Point 2

Combining Data from different sources into new dataset



- Example:
- Data ingestion involves collecting real-time data on your music listening behavior. For example, every time you play a song, skip a track, or add a song to your playlist, this data is ingested into the system.
  - The app may gather data on the time of day you listen to music, the genre of music you prefer, and the artists you frequently listen to.

- Example:
- Data integration combines this real-time listening data with other relevant information to generate personalized recommendations and playlists tailored to your tastes.
  - System integrates your music listening history with data on trending songs, popular playlists, and new releases. It also takes into account factors like your location and the weather to offer contextually relevant music suggestions.

data ingestion involves capturing real-time data on your music listening behavior, while data integration combines this data with contextual information to offer personalized recommendations and enhance your listening experience.