**5. Retry logic**

Basic flow: Job fails → increase retry count → check if max reached → retry or move to DLQ.

Steps:

1. **Job picked up** from the queue by a worker.
2. **Worker processes** the job.  
   If **success** → mark job as completed.  
   If **failure** → check if it is retryable.
3. **Retry check :-**

If retryable and attempt\_count < max\_retries → requeue job with a delay (based on retry policy).  
If retryable but attempt\_count >= max\_retries → move job to Dead-Letter Queue (DLQ).  
If not retryable → move job directly to DLQ.

In this way, each job keeps track of how many times it has been retried. If it fails, the system decides whether the error is retryable. Retryable jobs get requeued until they hit the retry limit. Once the limit is reached (or if the error is not retryable), the job is moved to the Dead-Letter Queue (DLQ) for later inspection.