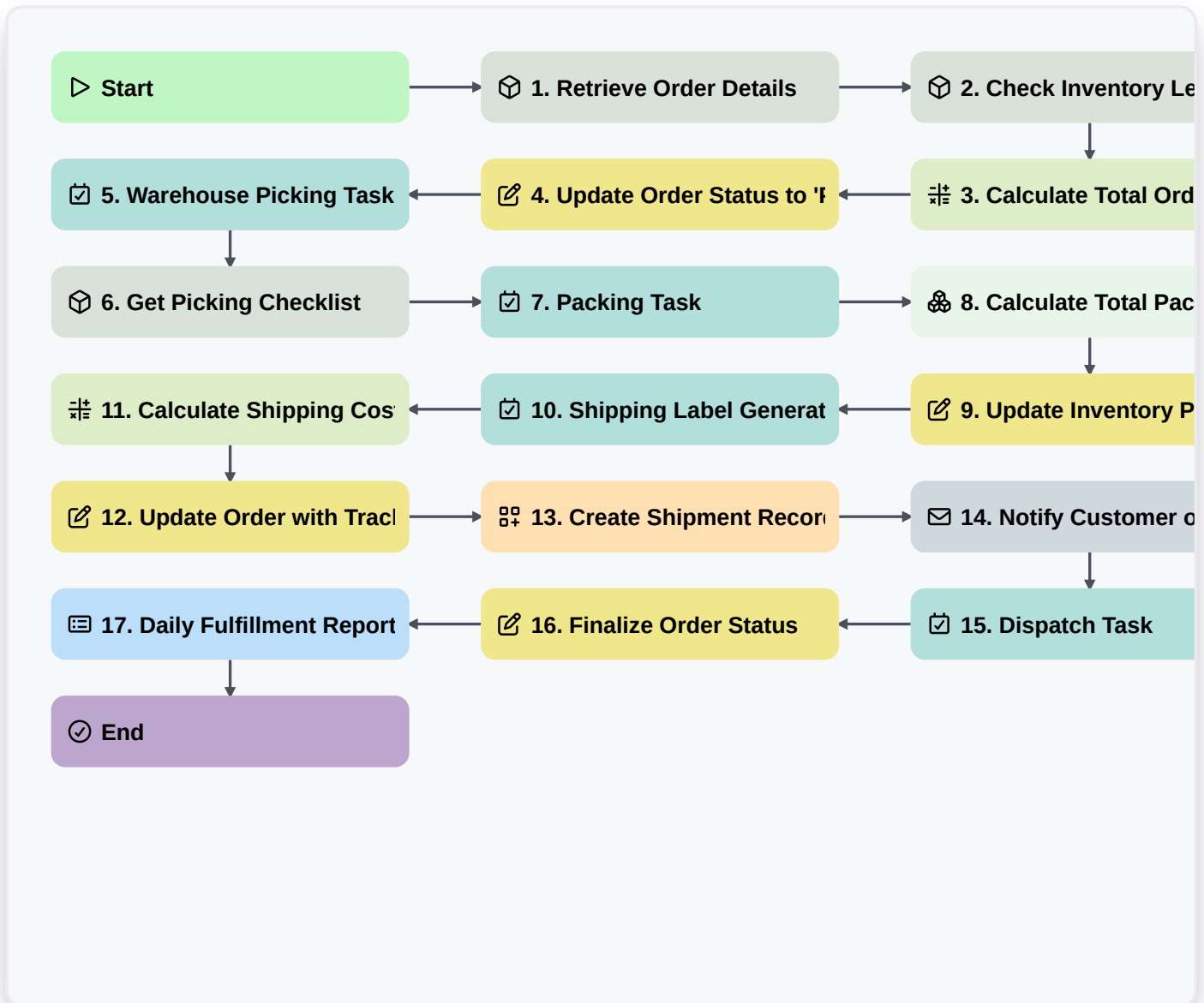


Outbound Order Fulfillment Workflow



Start

Start of the Workflow/Process.

1. Retrieve Order Details

Fetch the specific order entry from the Orders data model using the Order ID.

2. Check Inventory Levels

Retrieve product entries from the Inventory data model to verify stock availability.

3. Calculate Total Order Weight

Sum the weight of all line items in the order to determine shipping requirements.

4. Update Order Status to 'Processing'

Update the status field of the Order entry to reflect that fulfillment has begun.

5. Warehouse Picking Task

Create a task for the Warehouse Team to pick items from the shelves.

6. Get Picking Checklist

Retrieve the standard picking checklist template associated with the product types in the order.



7. Packing Task

Create a task for the Packing Station to box the items and add protective materials.

8. Calculate Total Package Volume

Aggregate the volume of all items in the order to select the correct box size.

9. Update Inventory Post-Packing

Decrement the quantity of items in the Inventory data model after they are packed.

10. Shipping Label Generation

Create a task for the Logistics Clerk to print the shipping label and manifest.

11. Calculate Shipping Cost

Calculate shipping fees based on weight, dimensions, and destination distance.

12. Update Order with Tracking Number

Update the Order entry with the newly generated tracking number and carrier info.

13. Create Shipment Record

Create a new entry in the Shipments data model to track the movement of the package.

14. Notify Customer of Shipment

Send an automated email to the customer with their order details and tracking link.

15. Dispatch Task

Create a task to move the completed package to the outbound loading dock.

16. Finalize Order Status

Update the Order entry status to 'Shipped'.

17. Daily Fulfillment Report

Generate a report of all orders fulfilled during this shift for management review.

End

End of the Workflow/Process.