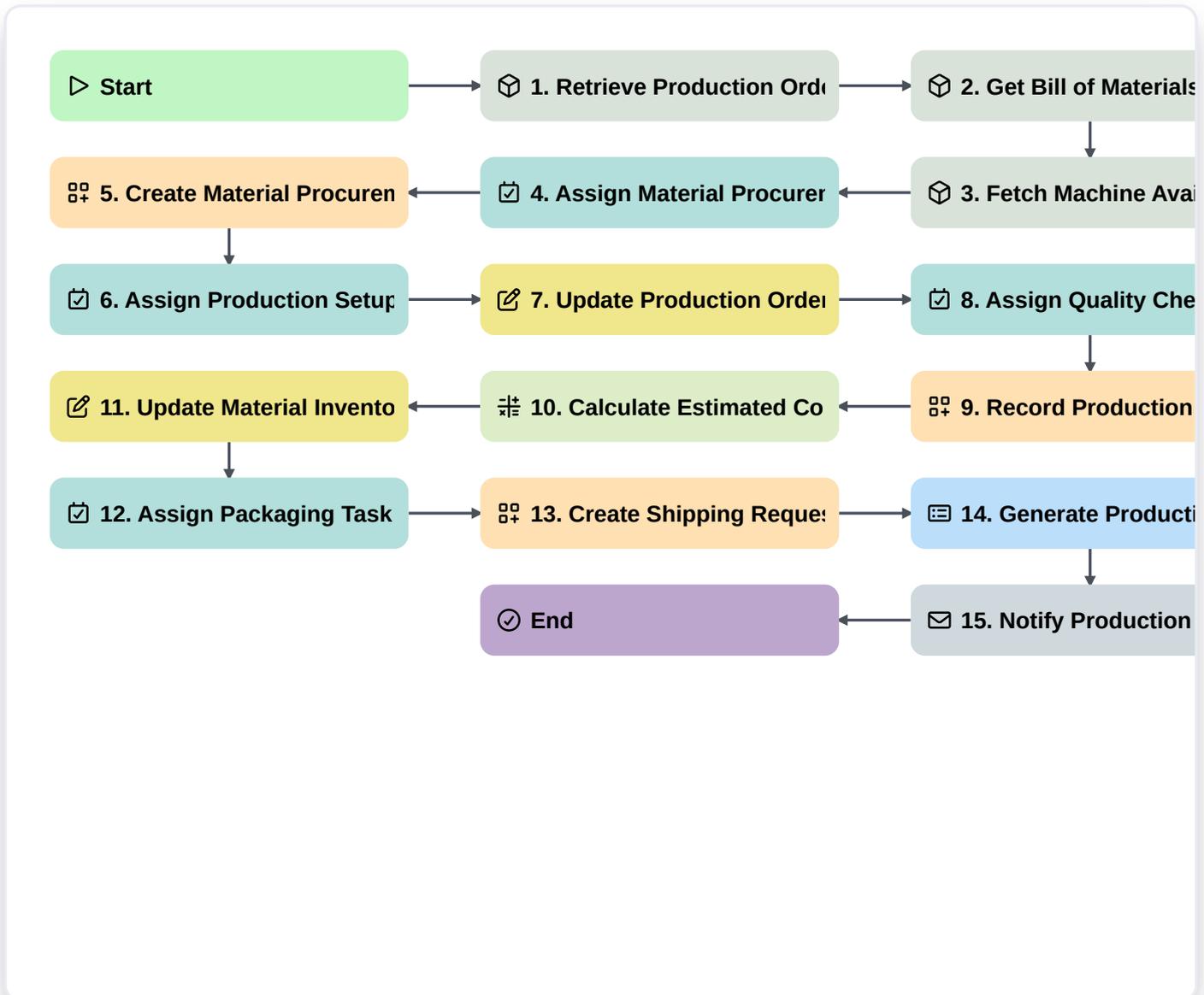


Optimized Production Order Management Workflow



▷ **Start**

Start of the Workflow/Process.

 **1. Retrieve Production Order Details**

Fetch all relevant data for the current production order from the Production Order Data Model.

 **2. Get Bill of Materials (BOM)**

Retrieve the BOM associated with the production order.

 **3. Fetch Machine Availability**

Get the current availability and maintenance schedule for required machinery.

 **4. Assign Material Procurement Task**

Create a task to procure necessary raw materials.

 **5. Create Material Procurement Request**

Create a record in the Material Procurement Request data model.

📌 **6. Assign Production Setup Task**

Create a task to prepare the production line for the order.

✍️ **7. Update Production Order Status**

Update the production order status to 'In Progress'.

📌 **8. Assign Quality Check Task**

Create a task for quality control inspection at a specified stage.

📊 **9. Record Production Progress**

Create an entry to track production progress (quantity produced, time spent).

📅 **10. Calculate Estimated Completion Time**

Calculate the estimated completion time based on current progress and remaining tasks.

✍️ **11. Update Material Inventory**

Update material inventory levels upon consumption.

📌 **12. Assign Packaging Task**

Create a task to package the finished product.

📊 **13. Create Shipping Request**

Generate a shipping request for the completed order.

📄 **14. Generate Production Report**

Create a report summarizing production order details, progress, and any issues encountered.

✉️ **15. Notify Production Manager**

Send an email to the production manager upon order completion or any deviations from plan.

🏁 **End**

Start of the Workflow/Process.