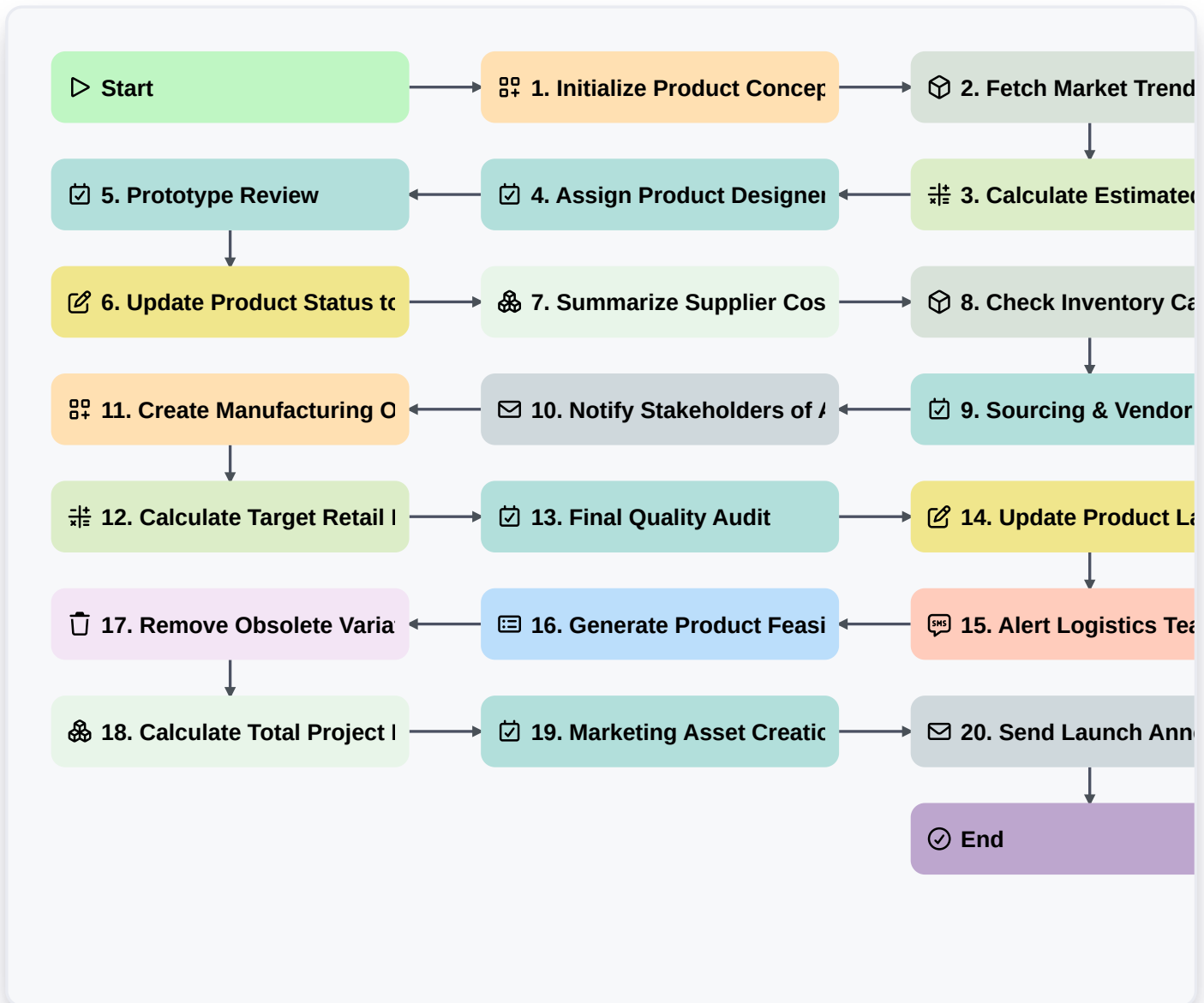


Retail Product Lifecycle Management



▷ Start

Start of the Workflow/Process.

🛠️ 1. Initialize Product Concept

Create a new entry in the Product Data Model to begin the lifecycle.

📦 2. Fetch Market Trends

Retrieve existing market research and competitor data entries to inform product design.

🧮 3. Calculate Estimated COGS

Calculate the Estimated Cost of Goods Sold (COGS) by summing raw material and labor cost variables.

📝 4. Assign Product Designer

Create a task for the Design Team to begin creating 3D renders and technical specs.

📋 5. Prototype Review

Create a task for the Quality Assurance lead to inspect the physical prototype.

📝 6. Update Product Status to 'Prototyping'

Update the current product entry status to reflect that it has moved into the prototyping phase.



7. Summarize Supplier Costs

Aggregate all component cost entries to determine the total manufacturing cost per unit.

8. Check Inventory Capacity

Get existing warehouse capacity entries to ensure storage is available for the new product line.

9. Sourcing & Vendor Negotiation

Create a task for the Procurement Manager to finalize contracts with suppliers.

10. Notify Stakeholders of Approval

Send an email to the Product Board once the prototype phase is successfully completed.

11. Create Manufacturing Order

Create a new entry in the Production Schedule Data Model.

12. Calculate Target Retail Price

Execute formula: $(COGS * Markup_Multiplier) + Shipping_Buffer$ to determine MSRP.

13. Final Quality Audit

Create a task for the QC Inspector to verify the first batch against technical specifications.

14. Update Product Launch Date

Update the product entry with the finalized seasonal launch date.

15. Alert Logistics Team

Send an SMS to the Warehouse Manager when the shipment is marked as 'In Transit'.

16. Generate Product Feasibility Report

Create a comprehensive report summarizing the design, cost, and risk assessments for the product.

17. Remove Obsolete Variations

Delete product configuration entries that were cancelled during the design phase.

18. Calculate Total Project Budget

Aggregate all expense entries (marketing, manufacturing, shipping) to track total lifecycle spend.

19. Marketing Asset Creation

Create a task for the Creative Team to produce photography and advertising copy.

20. Send Launch Announcement

Send an email to the Sales Department with the finalized product specs and launch date.

End

End of the Workflow/Process.