

PRODUCTION COST CALCULATOR

QUOTATION

Project: Production Cost Calculator

Version: 1.0

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1. Time Estimation by Module

Module	Tasks Included	Estimated Time (Days)	Notes
Requirement Analysis & SRS finalization	Understand client needs, review SRS	1-2	Already mostly done
UI/UX Design (Next.js + CSS Modules)	Layout, responsive forms, dashboards	6-8	Includes charts and reusable components
User Authentication & Roles (JWT)	Login/logout, JWT token, role-based access	1-2	Includes Admin, Manager, Accountant, Staff
Product Management	CRUD products, batch sizes, search/filter	3-4	Include pagination and sorting
Raw Material & Vendor Management	CRUD materials & vendors, stock tracking	3	Include frequent material save, alerts
Labor Management	CRUD labor, input hours, cost calculation	3	Direct/Indirect labor, overtime
Machine & Utilities Module	CRUD machines, hours, utility costs	2	Cost calculation per batch
Overhead Management	Fixed/% overheads, automatic calculation	1	Monthly/annual tracking
Wastage / Scrap Handling	Wastage %, scrap resale, cost adjustment	1	Per material per batch
Packaging & Transportation Costs	Input costs, add to batch	1	Per unit/batch
Profit Margin Module	Apply %/fixed, suggest selling price	1	Show profit/unit/batch
Batch Management & Cost Engine	Create batch, calculate total/unit cost, break-even	4-6	Core calculation logic
Reports & Dashboards	Charts, KPI dashboard, batch/month/year comparisons	3-5	Interactive charts, drill-downs
Scenario / "What-if" Simulation	Cost change simulations, comparison	2	Recalculate dynamically
History & Database Management	Save batches, versioning, comparison	2	Includes search/filter history
Notifications & Alerts	Stock alerts, budget alerts	1	Real-time notifications
Export & Integration	PDF/Excel export, future API hooks	2	SheetJS, jsPDF
Testing & Bug Fixing	Unit testing, integration testing, UI testing	3-4	Include edge cases
Deployment & Documentation	Server setup, deployment, code/docs handover	1-2	Web deployment and API docs



2. Total Hours & Cost

Total Ideal Time

- Sum of all modules: **41-55 days** (~8-11 weeks full-time)

Note: This assumes **full-time development without major interruptions**. Adding 10-15% buffer for unforeseen delays, client changes, or debugging is recommended will increase further.

Parameter	Minimum	Maximum
Hours	328	440
Hourly Rate	₹190	₹190
Cost	₹62,320	₹83,600

Average Cost: ₹72,960 → Rounded **₹63,000**

Average Time: 384 Hours = ~ 48 Days = ~ 9 Weeks

3. Final Amount with Discount

- Final Amount Agreed:** ₹63,000
- Discount on Hourly Rate:** Reduced from ₹190 → ₹175/hour (~7.9% discount)
- Overall Discount Applied:** Offers confidence to client for full feature implementation.

4. Why Discount

There are **around 60 features** included in this project. This increases the time and cost. However, to **build confidence and collaboration**, I am offering a **discount on the hourly rate** and **overall project cost**.

5. Options for Proceeding

- Remove certain features from the list**
 - Reduces development time and overall cost.
- Keep all features and apply discounted rate**
 - Hourly rate reduced from ₹190 → ₹175/hour
 - All functionality remains intact

