Functional Requirements					
	FR1.1 – The system should allow production managers to create and manage production schedules.				
1. Production Roles (workers, supervisors, managers)	FR1.2 – Supervisors should be able to allocate production tasks to workers and monitor workflow organization.				
	FR1.3 – Workers should be able to view their assigned daily tasks through the system.				
	FR1.4 – Technicians should be able to record and report machine downtime for management review.				
	FR1.5 – Managers should be able to monitor work orders in real time to track production progress.				
2. Maintenance Roles (technicians, maintenance managers)	FR2.1 – Technicians should be able to schedule and manage preventive maintenance tasks to prevent unexpected machine breakdowns.				
	FR2.2 – Workers should be able to report unusual machine behavior (sounds or movements) through the system for early intervention.				
	FR2.3 – Maintenance managers should be able to view machine health reports and analyze performance to reduce downtime.				
3. Inventory & Supply Chain Roles (warehouse, procurement, logistics)	FR3.1 – Warehouse staff should be able to record all incoming raw materials and outgoing finished goods to maintain accurate stock levels.				
	FR3.2 – The system should automatically trigger material reorders when stock levels fall below predefined thresholds.				
	FR3.3 – The system should allow storekeepers to track finished goods inventory for shipment preparation.				
	FR3.4 – Logistics managers should be able to generate and manage delivery schedules to ensure timely customer deliveries.				
	FR3.5 – Supplier managers should be able to track and evaluate supplier performance for reliability.				
	FR4.1 – Quality inspectors should be able to log inspection results and mark defective items.				
4. Quality Roles (inspectors, QA managers, auditors)	FR4.2 – The system should allow QA managers to generate detailed defect and quality reports to identify recurring issues.				
	FR4.3 – The system should alert workers immediately when defective				

	units are detected to stop production promptly.			
	FR4.4 – QA auditors should be able to access and review historical inspection records for compliance verification.			
5. Safety & Compliance Roles (safety officers, compliance officers)	FR5.1 – The system should allow safety officers to record and track safety incidents and near-misses for workplace improvement.			
	FR5.2 – The system should integrate with cameras to monitor production areas for unsafe behaviors or hazards.			
	FR5.3 – The system should maintain audit-ready compliance and safety records to meet regulatory inspection requirements.			
	Non-Functional Requirements			
1. Performance	NFR1.1 – The system should respond to most user actions within two seconds.			
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	NFR1.2 – It should handle real-time production updates without			
	performance issues, even during peak hours.			
2. Reliability	NFR2.1 – The system should maintain an uptime of at least 99.5%.			
21 Hondonity	NFR2.2 – Data backups should run automatically several times a day.			
	NFR3.1 – The interface should be simple, clean, and easy to navigate			
3. Usability	for users of all skill levels.			
	NFR3.2 – The system should support multiple languages and accessibility options (Arabic, English).			
4. Security	NFR4.1 – All users should log in securely using role-based access control.			
	NFR4.2 – Sensitive data must be encrypted during both storage and transmission.			
5. Scalability	NFR5.1 – The system should easily scale to support new users, locations, or modules.			
	NFR6.1 – Updates and maintenance should be possible without major			
	downtime.			
6. Maintainability	NEDOO TI A LA L			
	NFR6.2 – The system should maintain detailed activity and error logs to simplify troubleshooting.			
	NFR7.1 – The system should comply with manufacturing and data			
	protection standards like ISO 9001 and GDPR.			
7. Compliance	NED7.2. All upor activities should be logged for audit and traspability.			
	NFR7.2 – All user activities should be logged for audit and traceability purposes.			
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