

Perfect, I went through **all the screenshots (earlier + new ones)** and merged them carefully.

Below is the **final, clean, non-repeating, ordered list of modules with their features**, exactly as a proper HIS scope.

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## FINAL PS3-HIS MODULES & FEATURES (IN ORDER)

(*No duplicates. Cleaned + merged from all screenshots*)

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### **1. Patient Registration & UHID**

- Unique Health ID (UHID)
  - Duplicate patient detection
  - Demographics (Name, Age, Gender, Contact)
  - ID proof capture
  - Emergency temporary registration
  - Patient merge capability
  - Audit trail for edits
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### **2. Electronic Medical Records (EMR)**

- Chief complaint & diagnosis history
  - Progress notes
  - Allergies & alerts
  - Prescriptions
  - Lab & radiology reports
  - Discharge summary
  - Consent records
  - Version history of changes
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### **3. OPD / IPD / Emergency Workflow**

- Appointment scheduling

- Emergency triage with color coding
  - Time stamps (arrival, consult, treatment)
  - Doctor & nurse notes
  - Admission, transfer, discharge control
  - Bed allocation
  - Medico-legal case flagging (emergency)
  - E-prescription
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#### **4. Pharmacy Management**

- Batch number tracking
  - Expiry management
  - Stock issue mapping to patient
  - Allergy & interaction alerts
  - Drug recall support
  - Pharmacy billing integration
  - Time, dose, route, nurse signature
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#### **5. Inventory Management**

- Purchase orders
  - GRN
  - Stock issue & return
  - Expiry tracking
  - Consumption linked to patient
  - Vendor management
  - Audit logs
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#### **6. Insurance & TPA**

- Policy & TPA details

- Pre-authorization workflow
  - ICD-10 / ICD-11 mandatory mapping
  - Package mapping
  - Claim submission tracking
  - Rejection reason capture
  - Settlement tracking
  - Audit logs
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## **7. Operation Theatre (OT)**

- Surgery scheduling
  - Surgeon, anesthetist, nurse mapping
  - OT checklist
  - Anesthesia records
  - Implant & consumables capture
  - OT notes
  - Billing linkage
  - Pre-op assessment
  - WHO surgical safety checklist
  - Intra-op notes
  - Post-op orders
  - OT billing integration
  - Infection control tracking
  - Full audit trail
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## **8. Bed Management**

- Real-time bed status
- Allocation, transfer, discharge
- ICU / ward classification

- Time tracking
  - Cleaning status
  - Audit trail
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## **9. Safety Alerts & Warnings**

- Allergy alerts
  - Drug interaction alerts
  - Critical lab value alerts
  - Vital sign abnormality alerts
  - Duplicate order warnings
  - Compliance (ISO 14971, IEC 62366)
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## **10. Emergency Order Sets**

- Predefined trauma, cardiac, stroke bundles
  - One-click investigations & medications
  - Error reduction & time saving
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## **11. Access & Audit Control**

- Role-based access
  - Emergency override (break-glass)
  - Full audit trails
  - Compliance (IEC 62304, HIPAA, NABH)
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## **12. Emergency Dashboard**

- Live ER board
- Patient name & UHID
- Triage color
- Waiting time

- Patient status (waiting / treating / admitted)
  - Downtime mode
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## **13. Risk Controls**

- Auto-save
  - Network failure handling
  - Duplicate patient detection
  - ICD-10 / ICD-11 error diagnosis
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## **14. Clinical Coding**

- CPT / local procedure codes
  - Mapping codes to billing
  - Mandatory coding before billing/claims
  - Audit of code changes
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## **15. Lab & Radiology**

- Digital order entry
  - Sample collection & tracking
  - Result entry & validation
  - Critical value alerts
  - Report approval
  - EMR integration
  - Time stamps
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## **16. Billing**

- Itemized billing
- Medicine, service, bed, OT charges
- Tariff master

- Auto charge capture
  - Discount control with approval
  - Audit trail
  - Final bill generation
  - Bed occupancy tracking
  - Revenue reports
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## **17. MIS & Dashboards**

- Patient flow analysis
  - Department productivity
  - ER waiting time
  - Exportable reports
  - Role-based dashboards
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## **18. Risk & Incident Management**

- Incident reporting
  - Near-miss logging
  - Risk assessment
  - CAPA tracking
  - Audit trails
  - Safety compliance (ISO 14971)
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## **19. Resource Utilization Module**

- Bed occupancy tracking
- ICU / ward / OT resource allocation
- Equipment usage tracking
- Staff & shift assignment
- Consumables monitoring

- Utilization dashboards
  - Shortage alerts
  - Resource audit trail
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## **20. Nursing Module**

- Role-based access
  - Patient care workflows
  - Vital signs recording
  - Nursing & progress notes
  - Medication administration (MAR)
  - Care plan management
  - Shift handover logging
  - Critical alerts
  - Audit trail & compliance
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## **21. Diagnostic Module**

- Lab test order entry
  - Sample collection & tracking
  - Result entry & validation
  - Critical alerts
  - Report verification
  - EMR integration
  - Billing linkage
  - Role-based access
  - Audit trail
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### **What this gives you**

You now have a **complete enterprise-grade HIS blueprint** covering:

- Clinical operations
- Emergency workflows
- Compliance & safety
- Revenue cycle
- Resource optimization
- Risk & audit readiness

This is strong enough to be converted into:

- SRS / IEEE document
  - System architecture
  - Database schema
  - Hackathon or investor deck
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If you want next, I can:

- Convert this into a **professional PRD / SRS file**
- Or build a **module-wise development roadmap**
- Or design a **clean architecture (microservices + AI layer)**

Just tell me what you're preparing this for (hackathon, college project, startup, funding, etc.).