

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.

✅ **FINAL PS3–HIS MODULES & FEATURES (IN ORDER)**

(No duplicates. Cleaned + merged from all screenshots)

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.).