

Hospital Management System - Module-Based Cost & Time Estimation

1. Core System Foundation

Base Requirements: Authentication, Authorization, Core Database, Basic UI Framework

Development Tasks:

- System Architecture Setup: 4 hours
- Database Design & Implementation: 3 hours
- Authentication System: 2 hours
- Role-Based Access Control: 2 hours
- Base UI Framework: 5 hours
- API Foundation: 5 hours

Total Hours: 21 hours

Cost (@\N4500/hour): \N94,500

Timeline: 3 days

2. Patient Management Module

Requirements: Registration, Medical History, Document Management, Patient Queue

Development Tasks:

- Patient Registration System: 1 hours
- Medical History Tracking: 3 hours
- Document Upload/Management: 1 hours
- Patient Search & Filtering: 2 hours
- Patient Queue System: 3 hours
- Reporting Features: 4 hours

Total Hours: 14 hours

Cost (@\4500/hour): \N63,000

Timeline: 3 days

3. Appointment Management Module

Requirements: Scheduling, Calendar Management, Reminders, Queue Management

Development Tasks:

- Appointment Booking System: 3 hours
- Calendar Integration: 3 hours
- Reminder System: 2 hours
- Conflict Detection: 3 hours
- Queue Management: 3 hours
- Notification System: 2 hours

Total Hours: 16 hours

Cost (@\N4500/hour): \72,000

Timeline: 2 days

4. Doctor's Module

Requirements: Consultation Interface, Prescription Management, Patient History Access

Development Tasks:

- Consultation Interface: 4 hours
- Digital Prescription System: 4 hours
- Patient History Viewer: 3 hours
- Lab Test Ordering: 2 hours
- Referral System: 2 hours

Total Hours: 15 hours

Cost (@\N4500/hour): \N67,500

Timeline: 3 day

5. Nursing Module

Requirements: Vital Signs Recording, Patient Monitoring, Ward Management

Development Tasks:

- Vital Signs Recording System: 3 hours
- Patient Monitoring Dashboard: 5 hours
- Medication Schedule Management: 5 hours

Total Hours: 13 hours

Cost (@\N4500/hour): \N58,500

Timeline: 3 day

6. Pharmacy Module

Requirements: Inventory Management, Prescription Processing, Stock Control

Development Tasks:

- Inventory Management System: 4 hours
- Prescription Processing: 3 hours
- Stock Alert System: 2 hours
- Purchase Order Management: 4 hours
- Medicine Dispensing System: 5 hours
- Expiry Tracking: 2 hours

Total Hours: 20 hours

Cost (@\N4500/hour): \N90,000

Timeline: 3 day

7. Laboratory Module

Requirements: Test Management, Sample Tracking, Result Recording

Development Tasks:

- Test Order Management: 5 hours
- Sample Tracking System: 3 hours
- Result Recording Interface: 3 hours

- Report Generation: 3 hours

Total Hours: 14 hours

Cost (@\N4500/hour): \N63,000

Timeline: 3 day

8. Billing & Accounts Module

Requirements: Invoice Generation, Payment Processing, Insurance Management

Development Tasks:

- Billing System: 5 hours
- Payment Processing: 4 hours
- Financial Reporting: 5 hours
- Audit System: 3 hours

Total Hours: 17 hours

Cost (@\N4500/hour): \N76,500

Timeline: 3.5 day

9. Reports & Analytics Module

Requirements: Custom Reports, Analytics Dashboard, Export Features

Development Tasks:

- Report Generator: 5 hours
- Analytics Dashboard: 3 hours
- Data Export System: 2 hours
- Custom Filters: 2 hours
- Chart Generation: 3 hours
- PDF Export: 3 hours

Total Hours: 16 hours

Cost (@\N4500/hour): \N72,000

Timeline: 3 day

10. Integration & Testing

Requirements: System Integration, Testing, Deployment

Development Tasks:

- System Integration: 6 hours
- Unit Testing: 4 hours
- Integration Testing: 4 hours
- User Acceptance Testing: 3 hours
- Performance Testing: 3 hours
- Security Testing: 4 hours

Total Hours: 24 hours

Cost (@\N4500/hour): \N108,000

Timeline: 4 day

Summary

Total System Development:

Total Development Hours: 170 hours

Total Development Cost: \N765,000

Estimated Timeline: 28 - 31 days (4 weeks)

Additional Costs:

- LAN deployment : N85,000
- Training of staff : N50,000
- Documentation : N45,000
- Contingency : N45,000

Total Project Regular Cost: N990,000

Extended Cost for installation in another facility you will pay 50% of the regular cost N495,000