

SCOPE OF WORK & COMMERCIAL QUOTATION

Digital Health Card & Lab Management System

QUOTATION DETAILS

- **Date:** December 01, 2025
 - **Prepared For:** Muhammad Talha
 - **Prepared By:** Afnan Devs
 - **Project:** Health Card Discount & Lab Report Management System
 - **Project Timeline:** 1 Month
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PROJECT OVERVIEW

This proposal outlines the development of a comprehensive Digital Health Card system with Lab Management capabilities. The system will include a web panel for admin/lab management, mobile applications for users, and complete integration for card verification, discount processing, and report management.

SYSTEM ARCHITECTURE

Three Main Components:

1. **Web Admin Panel** (For Admin & Lab Personnel)
2. **Lab Management Portal** (For Lab Staff)
3. **Mobile Applications** (iOS & Android for Users)

DETAILED SCOPE OF WORK

1. WEB ADMIN PANEL FEATURES

A. User Registration & Card Generation System

- User registration form with personal details
- **Automatic Serial Number Generation** (Unique for each user)
- **QR Code Generation** for each user card
- **Card Design Module** with user details printing format
- Card status management (Active/Inactive/Lost)
- Batch card generation capabilities

B. Laboratory Management System

- Lab registration with unique Lab IDs
- Lab profile management (address, contact, services offered)
- Lab verification and approval workflow
- Lab performance dashboard
- Commission/discount rate setting per lab
- Lab transaction history

C. Admin Dashboard & Reporting

- Real-time dashboard showing:
 - Total registered users
 - Active labs count

- Daily/monthly transactions
 - Revenue reports
 - User activity reports
 - Complete user database access
 - All reports viewing and management
 - System configuration settings
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2. LAB MANAGEMENT PORTAL FEATURES

A. User Verification System

- QR code scanner integration (webcam/mobile camera)
- Serial number verification
- Real-time user validation
- User details display upon verification
- Card validity check

B. Test Entry & Discount Processing

- Test/service catalog management
- Test price entry system
- **Automatic Discount Calculation** (30% or configurable)
- Bill generation:
 - Original amount display
 - Discount calculation

- Final payable amount
- Multiple test entry in single transaction
- Transaction receipt generation

C. Report Management System

- Test report upload interface
- Multiple file upload support (PDF, Images, Documents)
- Report status tracking (Pending/Uploaded/Delivered)
- Report categorization (X-Ray, Blood Test, etc.)
- Report delivery date setting
- Bulk report upload capabilities

D. Lab Dashboard

- Daily transaction summary
- Pending reports tracking
- Revenue dashboard
- User visit statistics
- Commission calculation

3. MOBILE APPLICATIONS (iOS & Android)

A. User Authentication & Profile

- Login/Registration using card serial number
- Profile management

- Digital card display with QR code
- Personal information management

B. Report Management

- View all uploaded reports
- Report filtering by date/lab/test type
- Download reports to device
- Share reports functionality
- Report history archive

C. Notification System

- **Push Notifications** for:
 - New report upload
 - Report delivery status
 - Discount offers
 - System updates
- Notification preferences management

D. Transaction History

- View all transactions with discounts
 - Receipt storage
 - Spending analytics
 - Yearly summary reports
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4. BACKEND SYSTEM FEATURES

A. Core Business Logic

- Discount calculation engine
- Commission tracking system
- Revenue distribution logic
- Card validation algorithms
- Report access control

B. Security Features

- End-to-end encryption for reports
- Secure file storage
- Data privacy compliance
- Audit trail for all transactions

C. Integration Capabilities

- SMS notification service
 - Email service integration
 - Cloud storage for reports
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TECHNICAL SPECIFICATIONS

Technology Stack

- **Web Panel:** React.js with Ant Design/Material-UI
- **Backend:** Node.js with Express.js

- **Mobile Apps:** React Native (for both iOS & Android)
 - **Database:** PostgreSQL with Redis caching
 - **File Storage:** Hetzner
 - **QR Code:** Custom QR generation with encryption
 - **Notifications:** Firebase Cloud Messaging
 - **Hosting:** Hetzner Cloud with CDN
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PAYMENT SCHEDULE (3 MILESTONES)

Milestone	Description	Amount	Percentage
Milestone 1	Requirement Finalization & Design	40,000 PKR	20%
Milestone 2	Web Panel + Lab Portal + Mobile Apps Development	100,000 PKR	50%
Milestone 3	Integration, Testing & Final Delivery	60,000 PKR	30%
TOTAL		200,000 PKR	100%

PROJECT TIMELINE

Phase 1: Planning & Design (Week 1)

- Detailed requirement analysis
- Database architecture design
- UI/UX design for web and mobile
- QR code system design

- System flow diagrams

Phase 2: Web Panel Development (Week 2)

- Admin panel development
- Lab management portal
- User registration system
- QR code generation module
- Report management system

Phase 3: Mobile Apps Development (Week 3)

- iOS app development
- Android app development
- Push notification system
- Report viewing features
- User profile management

Phase 4: Integration & Testing (Week 4)

- Complete system integration
- Testing: QR verification, discount calculation, notifications
- User acceptance testing
- Performance optimization
- Deployment and launch

SUPPORT & MAINTENANCE

Included Support (6 Months)

- Bug fixes and technical support
- Server maintenance
- Security updates
- Performance monitoring

Post-Support Options

- **Option 1:** Monthly Maintenance: 15,000 PKR/month
 - **Option 2:** Pay-per-Support: 1,500 PKR/hour
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ACCEPTANCE

By Replying with “I have Agreed”, Muhammad Talha agrees to all terms, payment schedule, and project scope outlined in this document.

Accepted by:

Muhammad Talha