

**Professional Business Proposal**

**Battery Warranty Management System**

Date: November 23, 2024

Proposal Number: BWM-2024-001

**Executive Summary**

We propose to develop a comprehensive Battery Warranty Management System that will streamline warranty tracking, customer service, and dealer management operations. The system will handle approximately 100 batteries monthly across 10 dealers initially, with built-in scalability for future growth.

**Project Understanding**

The client requires a fully functional web-based platform that will:

- Track battery warranties through QR codes

- Manage dealer networks

- Handle warranty registrations and renewals

- Provide customer support interfaces

- Generate analytical reports

- Send automated notifications

**Technical Solution**

**1. Technology Stack**

Frontend:

- React 18

- Redux Toolkit

- React Router v6

- React Helmet (SEO)

- Tailwind CSS

- Axios

Backend:

- Node.js with Express

- MongoDB Database

- JWT Authentication

Infrastructure:

- Netlify (Frontend Hosting)

- MongoDB Atlas (Database)

- GoDaddy (Domain)

- Cloudinary (Media Storage)

**2. Detailed Cost Breakdown**

One-Time Development Costs

1. Frontend Development

- User Interface Development

- Dashboard Creation

- Responsive Design

- Integration & Testing

2. Backend Development

- API Development

- Database Architecture

- Authentication System

- File Management

3. Testing & QA

- Unit Testing

- Integration Testing

- Security Testing

4. Initial Setup Costs

- Domain Registration

- Server Configuration

- API Integration

Total One-Time Cost: 1,20,000/-

**3. Implementation Timeline**

**Phase 1**

1. Module 1

- Project Setup

- User Authentication System

- Basic Dashboard Structure

2. Module 2

- Battery Registration System

- QR Code Integration

- Warranty Tracking

3. Module 3

- Basic Reporting

- Email/SMS Notifications

- Testing & Bug Fixes

**Phase 2**

1.Module 1

- Vendor Portal

- Bulk Registration

- Transfer System

2. Module 2

- Advanced Analytics

- WhatsApp Integration

- Custom Notifications

3. Module 3

- Final Testing

- Documentation

- Deployment

**4. Payment Terms**

1. Initial Payment: 40%

- Due upon project initiation

2. Mid-Project Payment: 30%

- Due after Phase 1 completion

3. Final Payment: 30%

- Due upon project completion

**5. Deliverables**

1. Source Code & Documentation

- Frontend and Backend source code

- API documentation

- Database schema

- Deployment guides

2. User Manuals

- Admin manual

- Vendor manual

- End-user guide

3. Training & Support

- 2 weeks of training

- 3 months post-launch support

- Knowledge transfer sessions

**6. Service Level Agreement (SLA)**

1. System Uptime: 99.9%

7. **Terms** & **Conditions**

1. Prices are valid for 30 days

2. GST will be charged as applicable

3 months warranty on delivered code

4. Source code ownership transfers after final payment

5. Weekly progress meetings and reports