

# Web Application Development Proposal

## Community Property Rescue

**Prepared for:** Community Property Rescue

**Prepared by:** Daniel Schacht

**Date:** November 7, 2025

## Executive Summary

This proposal outlines the development of a custom web application for Community Property Rescue, designed to streamline client management, service tracking, and reporting. The solution will be built using proven modern technologies, following the successful architecture of similar nonprofit database applications.

## Technical Solution Overview

### Platform Architecture

- **Frontend Framework:** Next.js 15 with React 19
- **Programming Language:** TypeScript for type-safe, maintainable code
- **Styling:** Tailwind CSS 4 for responsive, modern UI
- **Database:** Supabase (PostgreSQL) with real-time capabilities
- **Authentication:** Supabase Auth with role-based access control
- **Hosting:** Vercel (included in monthly support)
- **Maps & Geolocation:** Mapbox integration for location tracking

### Core Features

## **1. Client Management System**

- Comprehensive intake forms with demographic data collection
- Client search and filtering capabilities
- Duplicate detection to prevent redundant entries
- Client profile pages with full service history
- Custom client ID generation

## **2. Service Encounter Tracking**

- Date/time stamped service interactions
- Geolocation tracking with interactive maps
- Field worker assignment
- Service type categorization
- Detailed case management notes
- Photo/document attachment capability

## **3. User Management**

- Role-based access control (Admin / Field Worker)
- Secure authentication system
- User activity logging
- Password management and security features

## **4. Reporting & Analytics**

- Custom report builder
- Data export functionality (CSV/Excel)
- Service encounter heat maps
- Statistical dashboards
- Filterable date ranges and service types
- Grant reporting templates

## **5. Mobile-Responsive Design**

- Progressive Web App (PWA) capabilities
- Works seamlessly on phones, tablets, and desktops
- Offline data entry capabilities
- Touch-optimized interface for field workers

## Project Deliverables

### Phase 1: Discovery & Planning (Week 1)

- Stakeholder interviews to define specific needs
- Database schema design
- UI/UX wireframes and mockups
- Technical architecture documentation

### Phase 2: Core Development (Weeks 2-5)

- Database setup and configuration
- User authentication system
- Client intake and management features
- Service encounter tracking system
- Admin dashboard development

### Phase 3: Advanced Features (Weeks 6-7)

- Custom reporting tools
- Map integration and geolocation
- Data export functionality
- Duplicate detection system

### Phase 4: Testing & Deployment (Week 8)

- Quality assurance testing
- User acceptance testing
- Staff training documentation
- Production deployment
- Initial data migration (if applicable)

## Investment Breakdown

### One-Time Development Cost: \*\*\$7,500\*\*

This includes:

- Complete application development
- Custom database design
- User authentication & security
- All core features listed above
- Responsive design for all devices
- Initial deployment and setup
- Staff training materials
- 30 days of post-launch support

### Monthly Support & Maintenance: \*\*\$100/month\*\*

This includes:

- **Database hosting and management (Supabase)**
- **Web application hosting (Vercel)**
- Database backups and monitoring
- Security updates and patches
- Performance optimization
- Bug fixes and minor enhancements

- Email support
- 99.9% uptime guarantee
- SSL certificate and security
- Automatic scaling as your organization grows

## Technology Benefits

### Why These Technologies?

#### Next.js & React

- Industry-leading web framework
- Fast, responsive user experience
- SEO-friendly for public-facing pages
- Easy to maintain and extend

#### TypeScript

- Reduces bugs through type checking
- Better code documentation
- Easier for future developers to understand
- Enhanced IDE support

#### Supabase (PostgreSQL)

- Enterprise-grade database
- Real-time data synchronization
- Automatic backups
- Built-in security features
- Scales with your needs

#### Vercel Hosting

- Global CDN for fast load times
- Automatic deployments

- Zero downtime updates
- Built-in analytics
- Excellent reliability

## Timeline

**Total Development Time:** 8 weeks from contract signing

- Week 1: Planning & Design
- Weeks 2-7: Development & Testing
- Week 8: Deployment & Training

## Support & Maintenance

### What's Included in Monthly Support:

- Hosting for both application and database
- Daily automated backups
- Security monitoring and updates
- Performance optimization
- Bug fixes and patches
- Email support (48-hour response time)
- Monthly usage reports
- Database maintenance and optimization

### Additional Services Available:

- Feature enhancements: \$75/hour
- Custom reporting development: \$500 per complex report

- Additional training sessions: \$150/session
- Data migration assistance: Custom quote

## Security & Compliance

- SSL encryption for all data transmission
- Password encryption and secure authentication
- Role-based access control
- Regular security audits
- GDPR-compliant data handling
- Automatic backup retention (30 days)
- Audit logging for sensitive operations

## Warranty & Guarantees

- 30 days of complimentary bug fixes post-launch
- Code ownership transferred to Community Property Rescue
- Complete source code provided
- Documentation for all custom features
- 99.9% uptime guarantee on hosting

## Payment Terms

### Development Fee: \$7,500

- 50% (\$3,750) due upon contract signing

- 50% (\$3,750) due upon completion and deployment

## **Monthly Support: \$100/month**

- Billed monthly beginning the month after launch
- Can be cancelled with 30 days notice
- Discounted annual payment option: \$1,080/year (2 months free)

## **Next Steps**

1. Review and approve this proposal
2. Sign development agreement
3. Submit initial payment
4. Schedule kickoff meeting
5. Begin discovery phase

## **About Daniel Schacht**

Daniel Schacht is an experienced web developer specializing in custom database applications for nonprofit organizations. With expertise in modern web technologies and a track record of successful deployments, Daniel delivers reliable, user-friendly solutions tailored to organizational needs.

### **Contact Information:**

- Developer: Daniel Schacht
- Email: [Your Email]
- Phone: [Your Phone]

## **Questions?**

I'm happy to discuss any aspect of this proposal, adjust features based on your specific needs, or schedule a call to walk through the technical details.

Thank you for considering this proposal. I look forward to helping Community Property Rescue better serve the community through improved technology.

**Proposal Valid For:** 30 days from date of issue

**Signature:**

Daniel Schacht

Date: \_\_\_\_\_

**Accepted By:**

Community Property Rescue Representative

Date: \_\_\_\_\_