BACKLOG:

## Phase 1 (Winter 2025): Initial Development

### 1. System Architecture Setup (Priority: HIGHEST)

Story Points: 21

- Setup Node.js backend environment

- Configure MongoDB database

- Initialize PWA structure

- Setup development environments

Acceptance Criteria:

- Complete working development environment

- Successful database connection

- PWA basic functionality working

### 2. User Authentication System (Priority: HIGH)

Story Points: 13

- Implement user/password authentication

- Develop OTP generation system

- Create admin OTP management

- Setup user role management

Acceptance Criteria:

- Secure login system works

- OTP system functions correctly

- Different user roles working properly

### 3. Registration Interface (Priority: HIGH)

Story Points: 21

- Build a registration form

- Implement ID scanning

- Create address verification

- Develop duplicate checking

Acceptance Criteria:

- Successfully captures all required information

- Real-time verification work

- Multiple device synchronization

### 4. Service Provider Interface (Priority: HIGH)

Story Points: 13

- Create service dashboard

- Implement ticket verification

- Build service tracking system

Acceptance Criteria:

- Real-time updates working

- Ticket validation functional

- Service tracking accurate

### 5. Admin Dashboard (Priority: MEDIUM)

Story Points: 21

- Create user management system

- Build reporting interface

- Implement system monitoring

Acceptance Criteria:

- Complete user management

- Report generation working

- System monitoring functional

## Phase 2 (Summer 2025): Enhancement & Testing

### 6. System Testing (Priority: HIGH)

- Unit testing

- Integration testing

- Performance testing

- Security testing

### 7. System Optimization

- Performance improvements

- UI/UX enhancements

- Bug fixes

- Feature refinements

## GANTT CHART TIMELINE:

### February 2025:

#### Week 1-2:

- Project Setup

- Client Meeting #1

- Requirements Documentation

- System Architecture Design

#### Week 3-4:

- Database Setup

- Client Meeting #2

- Basic Authentication System

- Use Case Documentation

### March 2025:

#### Week 1-2:

- Registration Interface Development

- Client Meeting #3

- Continue Authentication System

- Begin Service Provider Interface

#### Week 3-4:

- Admin Dashboard Development

- Client Meeting #4

- Requirements Documentation

- Draft Poster Preparation

### April 2025:

#### Week 1-2:

- System Integration

- Client Meeting #5

- Testing Phase 1

- Documentation Updates

#### Week 3-4:

- Phase 1 Completion

- Final Presentations

- Client Meeting #6

- Phase 1 Deployment

### Summer 2025 (May-August):

### May:

- System Enhancement Planning

- Advanced Testing Setup

- Bi-weekly Client Meetings

- Performance Optimization

### June:

- Security Enhancements

- UI/UX Improvements

- Bi-weekly Client Meetings

- Integration Testing

July:

- Performance Testing

- Bug Fixes

- Bi-weekly Client Meetings

- System Optimization

### August:

- Final Testing

- System Documentation

- Final Client Meeting

- Production Deployment

## Technical Approach Details:

- Frontend: PWA (Progressive Web App)

- Backend: Node.js

- Database: MongoDB

- Authentication: Username/Password + Daily OTP

- User Roles:

1. Registration Staff

2. Service Providers

3. System Administrators