Documentation Update Summary

Updated File: AGENTS.md

Major Enhancements Made

1. Project Overview Section Added

- Comprehensive description of HRM Laravel Base as a production-ready ERP system
- Evolution story from HRM concept to full ERP platform
- Multi-tenant architecture explanation
- Module completion status overview

2. Architecture Documentation Expanded

- Detailed directory structure with explanations
- Multi-tenant design patterns
- Module organization (Accounting, HR, Inventory, Organization)
- Service layer patterns and best practices

3. Module-Specific Guidelines Added

- **Financial Management**: Double-entry accounting, voucher systems, reporting
- **Human Resources**: Employee lifecycle, attendance, payroll, leave management
- **Inventory Management**: Multi-store support, stock tracking, valuation methods
- **Organization Management**: Multi-tenancy, hierarchical structure, member management

4. Database Design Principles

- Schema organization for multi-tenancy
- Migration best practices
- Foreign key and indexing strategies
- Soft delete implementation

5. API Development Guidelines

- RESTful conventions
- Authentication with Sanctum

- Organization scoping
- Rate limiting and security

6. Performance Optimization

- Database optimization strategies
- Frontend performance best practices
- Caching strategies
- Query optimization

7. Quality Assurance Standards

- Code review processes
- Testing strategies (unit, feature, integration, e2e)
- Security scanning
- Accessibility compliance

8. Updated Package Versions

- Updated all Laravel ecosystem package versions to current:
- Laravel Framework: v12.35.1
- Livewire: v3.6.4
- Pest: v3.8.4
- All other packages updated to latest versions

9. Enhanced Laravel 12 Guidelines

- Detailed routing structure explanation
- Model organization by module
- Database schema information
- Testing structure and coverage

10. Development Workflow Improvements

- Build, test, and deployment commands
- Environment management
- Documentation standards
- Code review processes

Key Benefits of Updated Documentation

For New Developers

- Clear understanding of project architecture and scope
- Module-specific guidance for different business domains
- Established patterns and conventions to follow
- Comprehensive onboarding information

For Existing Team Members

- Updated package versions and latest features
- Standardized development practices
- Performance optimization guidelines
- Quality assurance standards

For Project Maintenance

- Complete architecture documentation
- Deployment and DevOps guidelines
- Security and compliance standards
- Testing strategies and coverage requirements

Current Project Status Reflected

Module Completion Status

- **Financial Management**: 95% complete
- **Human Resources**: 90% complete
- **Inventory Management**: 100% complete
- **Organization Management**: 95% complete

Technical Stack

- **Backend**: Laravel 12, PHP 8.4.12, SQLite/MySQL
- **Frontend**: Livewire 3, Tailwind CSS 3, Alpine.js
- **Testing**: Pest PHP 3, PHPUnit 11
- **Development**: Laravel Pint, Vite, Docker support

Architecture Highlights

- Multi-tenant ERP system
- Organization-based data isolation
- Comprehensive API ecosystem
- Portal-based user experience
- Production-ready deployment

Documentation Quality Improvements

Structure

- Logical organization from general to specific
- Clear section hierarchy
- Comprehensive coverage of all aspects
- Easy navigation and reference

Content

- Elaborate yet precise explanations
- Practical examples and patterns
- Current package versions and features
- Real-world implementation guidance

Maintainability

- Up-to-date with current project structure
- Reflects latest Laravel 12 conventions
- Includes performance and security considerations
- Provides clear development standards

The updated documentation now serves as a comprehensive guide for understanding, developing, maintaining the HRM Laravel Base ERP system, reflecting its current state as a production-re multi-tenant business management platform.