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## 1 CHANGELOG

All notable changes to this project will be documented in this file.

The format is based on [Keep a Changelog](#), and this project adheres to [Semantic Versioning](#).

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### 1.1 [Unreleased]

#### 1.1.1 Planned Features

- Mobile app (Android/iOS)
  - AI chatbot support
  - Advanced BI dashboard
  - HRIS integration
  - Multi-bahasa support
- 

### 1.2 [2.0.0] - 2026-01-17

#### 1.2.1 Added

- **Document Generator** with auto-numbering & QR verification

- Template surat resmi (Undangan, SK, Pernyataan, dll)
  - Penomoran otomatis (SEQ/KODE/BULAN/TAHUN)
  - QR Code untuk validasi keaslian dokumen
  - Arsip surat terbit with edit & reprint capability
  - Filter dokumen by type, date, status
- **Bank Reconciliation** module
  - Import mutasi bank from Excel
  - Auto-matching dengan journal entries
  - Reconciliation report
- **Member Card** digital with QR code
  - Generate kartu anggota dengan QR
  - Print-ready format (ATM card size)
  - QR scan integration di POS
- **Organization Management** enhancements
  - Buku Inventaris Aset (compliance UU Koperasi)
  - Buku Risalah Rapat
  - Buku Daftar Pengurus
- **Aspirasi Anggota** feature
  - Member feedback system
  - Category-based classification
  - Admin response tracking
- **Polling & Voting** system
  - Create surveys/voting
  - Real-time results
  - Anonymous voting option

### **1.2.2 Changed**

- Upgrade Laravel 10.x → 11.x
- UI/UX improvements for better user experience
- Performance optimization (query caching, eager loading)
- Mobile responsiveness enhanced
- Dark mode refinement

### **1.2.3 Fixed**

- N+1 query issues di multiple modules
- CSRF token mismatch di long sessions
- Email notification delays
- Session timeout issues
- Image upload size limit errors

### **1.2.4 Security**

- Updated all dependencies for security patches
- Enhanced RBAC (Role-Based Access Control)
- Password encryption strengthened
- Audit logging improvements

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## 1.3 [1.5.0] - 2025-12-20

### 1.3.1 Added

- **Midtrans Payment Gateway** integration
  - QRIS support
  - E-wallet (GoPay, OVO, Dana, LinkAja)
  - Credit/Debit card
  - Virtual account
- **WhatsApp Notification** system
  - Loan approval/reject notification
  - Payment reminders (H-3 before due date)
  - SHU distribution announcement
  - Custom broadcast to all members
- **Voucher & Promo** management
  - Percentage discount
  - Fixed amount discount
  - Min purchase requirement
  - Usage quota & tracking
- **Consignment (Titip Jual)** module
  - Inbound consignment products
  - Commission calculation
  - Settlement with suppliers
- **Stock Opname** feature
  - Physical vs system stock comparison
  - Variance analysis
  - Auto-adjustment with journal entry

### 1.3.2 Changed

- Simpanan module refactored for better performance
- Dashboard charts updated with Chart.js 4.x
- Tailwind CSS upgraded to v3.4

### 1.3.3 Fixed

- Credit limit calculation error
  - SHU distribution rounding issues
  - PDF generation timeout for large documents
- 

## 1.4 [1.0.0] - 2025-11-15

### 1.4.1 Added - Initial Release

#### 1.4.1.1 Core Features

- **User Management & Authentication**

- Multi-role support (Admin, Pengurus, Manager Toko, Anggota)
  - Email verification
  - Password reset
  - Profile management
- **Keuangan (Finance) Module**
  - **Simpanan:** Pokok, Wajib, Sukarela with real-time tracking
  - **Pinjaman:** Online submission with digital signature
  - **Simulasi Pinjaman:** Calculator with 3 methods (Flat, Efektif, Anuitas)
  - **Angsuran:** Payment tracking with auto-reminder
  - **Penarikan:** Multi-level approval workflow
  - **SHU:** Auto-calculation & distribution
- **Koperasi Mart (Commerce) Module**
  - **POS:** Digital cashier with barcode scanner
  - **Product Management:** Multi-category catalog
  - **Inventory:** Real-time stock tracking
  - **Sales History:** Comprehensive analytics
  - **Credit Reports:** Member credit tracking
  - **Purchasing:** PO & GRN management
  - **Supplier Management:** Vendor database
  - **Expenses:** Operational cost tracking
- **Belanja (Member Shopping) Module**
  - Product catalog browsing
  - Personal transaction history
  - Credit balance tracking
- **Accounting Module**
  - Chart of Accounts (COA)
  - Journal entries (manual)
  - Account categories
  - Posting to ledger
- **Reporting Module**
  - Financial reports (Balance Sheet, Income Statement)
  - Operational reports (Sales, Inventory)
  - Member reports
  - Export to Excel/PDF
- **Communication Module**
  - Announcements broadcast
  - AD/ART digital library
  - System documentation
  - UAT & bug reporting
- **Administration Module**
  - Master data management
  - Roles & permissions (RBAC)
  - Settings configuration
  - Backup & restore
  - Audit logs

#### 1.4.1.2 Technical Features

- Laravel 10.x framework
  - Alpine.js + Tailwind CSS frontend
  - MySQL 8.0 database
  - DomPDF for document generation
  - Laravel Sanctum authentication
  - SMTP email integration
  - Cloud backup to Google Drive
- 

## 1.5 [0.5.0-beta] - 2025-10-01

### 1.5.1 Added

- Beta testing release
  - Core infrastructure setup
  - Basic dashboard
  - Member management MVP
  - Simpanan & Pinjaman MVP
- 

## 1.6 Version History Summary

Version	Release Date	Status	Highlights
<b>2.0.0</b>	2026-01-17	Current	Document Generator, Bank Reconciliation
<b>1.5.0</b>	2025-12-20	Stable	Payment Gateway, WhatsApp, Vouchers
<b>1.0.0</b>	2025-11-15	Stable	Initial Production Release
<b>0.5.0-beta</b>	2025-10-01	Beta	MVP Testing

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## 1.7 Upgrade Guide

### 1.7.1 From 1.5.0 to 2.0.0

```
# 1. Backup database
php artisan backup:run

# 2. Pull latest code
git pull origin main

# 3. Update dependencies
composer install
npm install && npm run build
```

```
# 4. Run migrations
php artisan migrate

# 5. Clear cache
php artisan config:clear
php artisan route:clear
php artisan view:clear

# 6. Restart services
sudo systemctl restart php8.2-fpm
sudo systemctl restart nginx
```

**Breaking Changes:** - Laravel 11.x requires PHP 8.2+ - Updated Eloquent relationship declarations - New middleware for document access control

**New Config Required:**

```
# Add to .env
APP_TIMEZONE=Asia/Jakarta
```

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## 1.8 Migration Notes

### 1.8.1 Database Changes (2.0.0)

**New Tables:** - `document_templates` - Template surat - `generated_documents` - Arsip surat terbit - `bank_transactions` - Import mutasi bank - `organization_assets` - Inventaris aset - `organization_meetings` - Risalah rapat - `organization_profiles` - Daftar pengurus - `member_aspirations` - Aspirasi anggota - `polls`, `poll_options`, `poll_votes` - Polling system

**Modified Tables:** - `members`: Added `photo` column - `settings`: New keys for document numbering - `generated_documents`: Added `reference_type`, `reference_id`

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## 1.9 Support & Contributing

**Report Bugs:** - GitHub Issues: [github.com/your-org/koperasi/issues](https://github.com/your-org/koperasi/issues) - Email: [bugs@kopkarskf.com](mailto:bugs@kopkarskf.com)

**Feature Requests:** - GitHub Discussions: [github.com/your-org/koperasi/discussions](https://github.com/your-org/koperasi/discussions) - Email: [features@kopkarskf.com](mailto:features@kopkarskf.com)

**Security Vulnerabilities:** - Email: [security@kopkarskf.com](mailto:security@kopkarskf.com) - PGP Key: Available on request

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## 1.10 License

This project is licensed under the MIT License - see the [LICENSE](#) file for details.

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**Maintained by:** Development Team  
**Last Updated:** 17 January 2026  
**Next Release:** v2.1.0 (Planned: Q2 2026)