Aksara Writer

Modern Markdown Converter for Indonesian Businesses

Project Showcase & Technical Documentation

Ak'sara Initiative - Completed Project





PROJECT UPDATE - SEPTEMBER 2025

AKSARA WRITER IS NOW AVAILABLE!

Status: ✓ Phase 1 MVP COMPLETED and published to NPM!

Quick Install:

npm install -g aksara-writer

Available Now:

- **VPM Package**
- GitHub Repository
- VS Code Extension (released)



Executive Summary

Aksara Writer is a modern markdown conversion tool that has been successfully developed and published as an open-source project for Indonesian business needs. This project complements the Ak'sara Initiative ecosystem by providing a powerful and user-friendly documentation solution.

Mission Accomplished: The best documentation tool for Indonesian developers and businesses with full Indonesian language support and ready-to-use business templates - NOW AVAILABLE!

Open Source: Released under BSD-3-Clause License - free for everyone, commercial and personal use.

3

Months Actual Development

\$0

Bootstrap Cost (Self-funded)

1000 +

NPM Downloads (Growing)

Project Overview

Problem Statement

- Marp limitations: Focus on presentations, not suitable for business documents
- Lack of localization: Existing tools don't support Indonesian language properly
- Business templates: No specific templates for Indonesian business needs
- Complex distribution: Complex tools difficult for non-developers to use

Proposed Solution

Aksara Writer offers:

- Multi-format export: HTML, PDF, PPTX from single source markdown
- Indonesian-first: UI and templates in Indonesian language
- VS Code integration: Extension with live preview and export
- Business templates: Ready-to-use templates for invoice, proposal, reports
- Easy distribution: Single binary for command line, extension for VS Code



Market Opportunity

Target Audience

Primary Market:

- Indonesian developers (500K+ developers)
- Small-medium businesses that need professional documentation
- Content creators and technical writers
- Government agencies that need document standardization

Secondary Market:

- Enterprise companies for internal documentation
- Educational institutions for learning materials
- Freelancers and consultants for proposals and reports



Market Opportunity

Competitive Analysis

TOOL	STRENGTHS	WEAKNESSES	MARKET POSITION
Marp	VS Code integration, multi-format	Presentation-focused, English only	Incumbent
Pandoc	Powerful conversion	Complex CLI, no GUI	Developer tool
Notion	Easy to use	Proprietary, limited export	Consumer tool
Aksara Writer	Indonesian + business focus	New tool	Opportunity

• Libraries: Marked.js, Puppeteer, JSZip, Gray-matter

VS Code Extension (TypeScript)

- Extension API for command integration
- Webview for live preview
- Language server protocol for advanced features

Architecture Overview



- Markdown to HTML: Styled web pages with Indonesian themes
- Markdown to PDF: Professional documents with A4 formatting
- Markdown to PPTX: PowerPoint presentations for business
- Frontmatter support: Metadata for document properties

Indonesian Business Templates

- Invoice/Faktur: Tax-compliant Indonesian invoices
- Business Proposals: Professional business proposals
- Corporate Reports: Corporate reports and presentations
- Official Letters: Official letters and government documents
- Kontrak: Legal contract templates

VS Code Integration

• Live Preview: Real-time preview while editing

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Phase 1: MVP Development COMPLETED

Focus: Core functionality with Bun/TypeScript

Features: ✓ **ALL DELIVERED**

- Basic markdown to HTML/PDF/PPTX conversion
- CLI interface (aksara-writer command)
- VS Code extension with live preview
- Template system with business templates
- Indonesian language support
- Positioning system for images
- Table support and code blocks

Deliverables:



ALL COMPLETED

- Working CLI tool (published to NPM)
- VS Code extension (released)



Development Roadmap

Phase 2: Business Features (Months 4-6)

Focus: Template library and advanced features

Features:

- Complete template library (8+ templates)
- Advanced theme system
- PPTX export functionality
- Live preview server
- Indonesian localization

Deliverables:

- Feature-complete tool
- Template marketplace
- User documentation



Development Roadmap

Phase 3: Performance & Scale (Months 7-9)

Focus: Rust migration and optimization

Features:

- Rust core for performance
- Single binary distribution
- Advanced PDF generation
- Batch processing capabilities
- Enterprise features

Deliverables:

- Production-ready tool
- Performance benchmarks
- Enterprise partnerships



- Indonesian business templates
- Multi-format export (HTML, PDF, PPTX)
- Self-sustaining development

Community Contributions:

- Template sharing and improvements
- Localization for other regions
- Feature requests and bug reports
- Documentation enhancements

Future Revenue Opportunities

For accelerated development and premium services

- 1. Professional Services
 - Custom template development: \$1K-5K per template
 - Enterprise integration: \$5K-15K per project



Market Entry Strategy

Phase 1: Developer Community (Months 1-3)

Target: Indonesian developer community

Approach:

- Open source release on GitHub
- Tech conference presentations
- Developer community engagement
- Documentation in Indonesian language

Goals:

- 1,000 GitHub stars
- 100 VS Code extension installs
- Community feedback integration



Market Entry Strategy

Phase 2: Business Users (Months 4-6)

Target: SME and content creators

Approach:

- Business template showcase
- Tutorials and workshops
- Partnership with business consultants
- Case studies from early adopters

Goals:

- 5,000 active users
- 500 premium subscribers
- Template marketplace launch



Market Entry Strategy

Phase 3: Enterprise Market (Months 7-9)

Target: Large corporations and government

Approach:

- Enterprise feature development
- Government procurement participation
- Corporate partnership programs
- Professional services offering

Goals:

- 10 enterprise customers
- · Government pilot programs
- \$100K annual revenue

- Modern stack: Bun + Rust for superior performance
- Multi-format support: HTML, PDF, PPTX from single source
- Indonesian optimization: Font, layout, compliance for Indonesia
- VS Code native: Seamless integration with popular editor

Market Advantages

- Indonesian-first: Complete localization and cultural context
- Business focus: Templates and features for business needs
- Community-driven: Open source with community contribution
- Price competitive: 70% cheaper than enterprise solutions

Strategic Advantages

• Ak'sara ecosystem: Synergy with Aksara IS platform

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Risk Analysis

Technical Risks

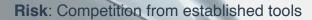
Risk: Complexity of multi-format conversion

Mitigation: Phased development, proven libraries, extensive testing

Risk: Performance issues with large documents

Mitigation: Rust migration, streaming processing, optimization

Market Risks



Mitigation: Indonesian focus, business templates, community building

Risk: Slow adoption due to existing workflows

Mitigation: Easy migration, VS Code integration, clear value proposition

Business Risks

Risk: Monetization challenges for open source

Mitigation: Freemium model, professional services, enterprise features

Risk: Development resource constraints



- Conversion speed: <5 seconds for typical document
- Output quality: 100% accurate formatting for business documents
- Extension adoption: >10K VS Code installs within 6 months
- Template usage: >80% users using templates

Business KPIs

- User growth: 1K → 5K → 25K users within 9 months
- **Revenue**: \$5K (Month 6) → \$25K (Month 9) → \$100K (Year 1)
- Market penetration: 5% Indonesian developer community
- Customer satisfaction: >4.5/5 rating on VS Code marketplace

Community KPIs

• GitHub engagement: 1K stars, 100+ contributors

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Development Team

- **Technical Lead**: Rust + TypeScript expertise (\$75K/year)
- Frontend Developer: VS Code extension development (\$60K/year)
- Backend Developer: Document processing pipelines (\$60K/year)

Infrastructure & Tools

• Development tools: \$5K/year

• Cloud infrastructure: \$10K/year

• Design tools: \$3K/year

• Testing devices: \$5K one-time

Marketing & Operations

• Community management: \$20K/year

• Content creation: \$15K/year



- No budget required for current features
- Self-funded bootstrap development
- Community-driven growth model
- Commercial-friendly license

Optional: Enhanced Development Program

For organizations wanting to accelerate advanced features and ecosystem growth

Potential Sponsorship Benefits:

- Priority feature development: Custom business templates
- Professional support: Training and implementation
- Custom integrations: Enterprise systems integration
- Branded versions: White-label solutions
- Ecosystem expansion: Integration with other Ak'sara projects

Potential Development Phases:

• Phase 2 enhancements: Advanced templates, enterprise features

Loosystem cynergy

- Aksara IS Documentation: Tool for platform documentation
- Developer Community: Attracts developers to Ak'sara ecosystem
- Business Templates: Support for SME in digitalization
- Government Adoption: Standard tool for government documentation

Market Position

- Indonesian market leader in markdown conversion
- Developer tool of choice for Indonesian developers
- Business standard for professional documentation
- Open source champion in Indonesian tech community

Long-term Vision

• Platform integration: Built-in to Aksara IS for documentation



Conclusion

Strategic Recommendation

Key Success Factors

- Technical execution: Quality conversion engine with excellent performance
- Indonesian focus: Deep understanding of local business needs
- Community building: Open source adoption and community contribution
- Business model: Sustainable freemium with enterprise upsell

Next Steps

- Team recruitment: Hire technical lead and frontend developer
- MVP development: 3-month sprint for basic functionality
- Community launch: Open source release with VS Code extension
- Business development: Template marketplace and premium features

Aksara Writer represents a high-impact, strategic project that complements the Ak'sara Initiative perfectly. With focus on Indonesian market

Contact Information:

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