



Automatic E-Commerce System – Technical Scope



System Overview

A fully automated e-commerce system that:

1. Crawls/scrapes the web for affiliate programs and content
 2. Processes data into digital products (e-books, PDFs, etc.)
 3. Manages affiliate/reseller program integration
 4. Automates marketing across multiple channels
 5. Handles transactions and tracking
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Core Components

1. Data Collection Layer

- Web crawlers with configurable parameters (start URL, depth, breadth/depth first)
- Content scrapers with filtering capabilities
- Support for structured, semi-structured, and unstructured data
- Seed URL management system
- Bloom filters for efficient crawling

2. Processing Layer

- NLP models for content analysis and classification
- Text summarization for product creation
- Content transformation pipelines

- Affiliate program profitability analysis
- Automated product generation (PDFs, eBooks, blog posts)

3. API Layer

- API Creator / Connector / Integrator / Manager systems
- Integration with 14,000–15,000 public APIs
- Marketing automation (Twitter, WordPress, social media)
- Auto-posting and response systems
- Email marketing & autoresponder integration

4. E-Commerce Layer

- Product catalog management
- Shopping cart and payment processing
- Transaction tracking
- Affiliate program tracking
- Customer management

5. Administration Layer

- System configuration and management
- Marketing performance analytics
- Content management
- User management and authentication

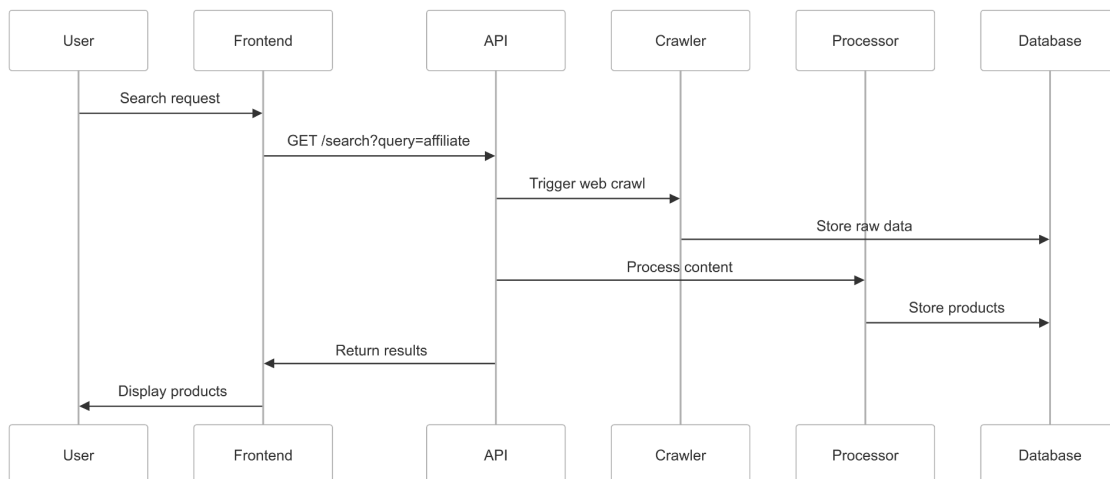
- **Backend:** Python (primary), PHP (alternative)
- **Frontend:** JavaScript
- **Database:** MongoDB (primary) with SQL support
- **Search:** Custom search APIs
- **Authentication:** Multi-tiered (basic to financial-grade)

Key Requirements

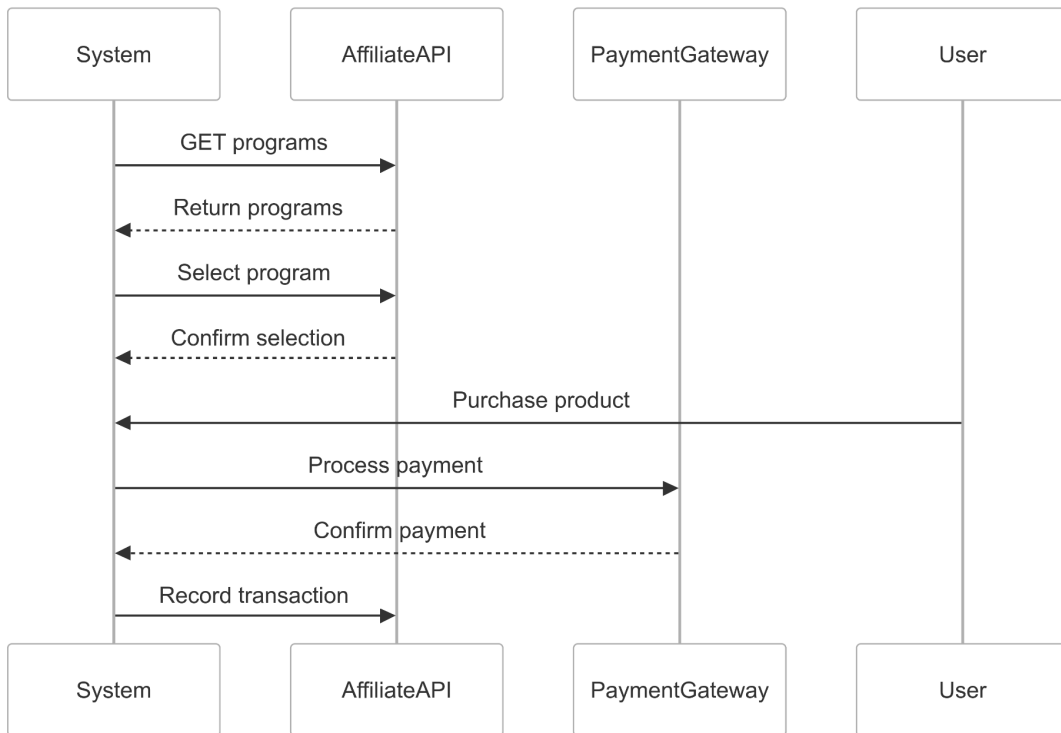
- Maximum automation using AI/ML where applicable
- Support for B2C business model
- Integration with major affiliate programs (ClickBank, WarriorPlus, JVZoo)
- Automated marketing across multiple channels
- Comprehensive tracking and analytics

E-Commerce System Sequence Diagrams

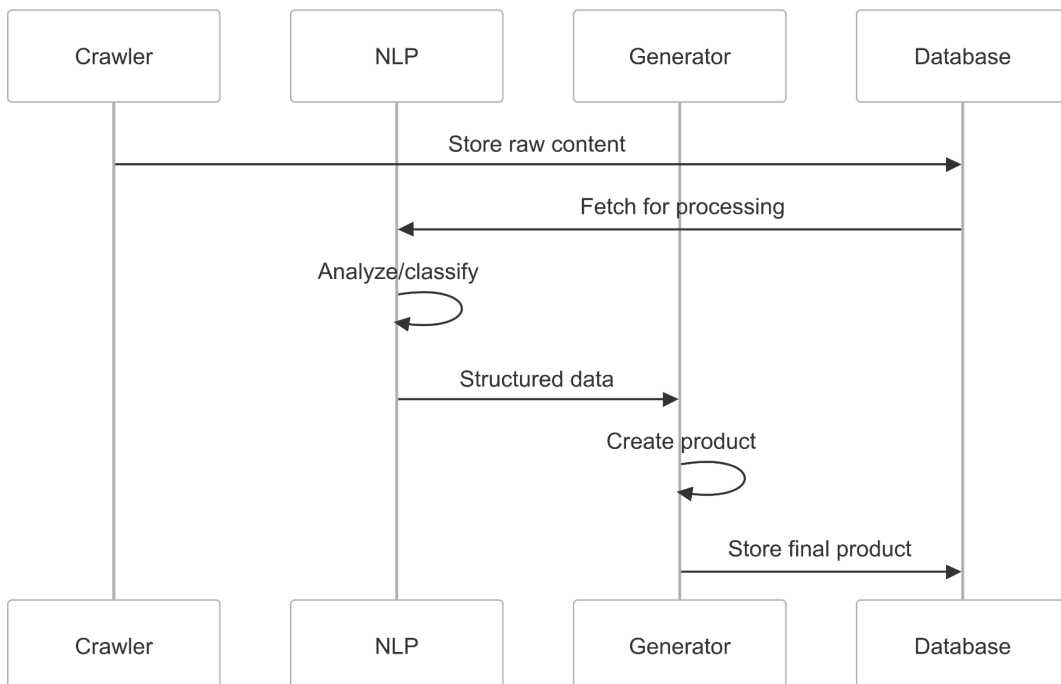
Main System Flow



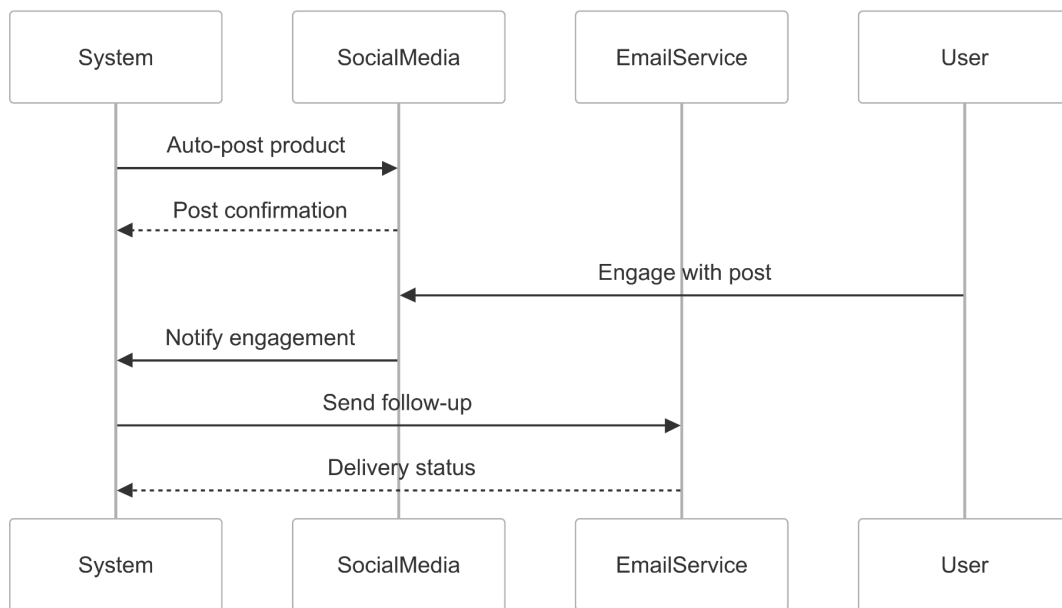
🤝 Affiliate Integration Flow



🧠 Content Processing Flow



Marketing Automation Flow



Key Components Summary

1. **User Interactions:** Search, purchase, engagement
2. **System Processes:** Crawling, processing, generation
3. **External Services:** Affiliate APIs, payment gateways
4. **Marketing Channels:** Social media, email