

Content Planning Feature - Implementation Summary

Overview

Complete implementation of a content planning and editorial calendar system for WritgoAI, replacing the “Coming Soon” placeholder with a fully functional feature.

17 Features Implemented

1. Database Layer

Table: `content_plans`

```
- id (PRIMARY KEY)
- user_id (FOREIGN KEY to users)
- title (TEXT, required)
- description (TEXT)
- keyword (TEXT)
- target_date (DATE)
- status (TEXT: draft/scheduled/published)
- article_id (FOREIGN KEY to articles)
- wordpress_site_id (FOREIGN KEY to wordpress_sites)
- word_count (INTEGER, default 1000)
- created_at (TIMESTAMP)
- updated_at (TIMESTAMP)
```

Indexes:

- `idx_content_plans_user_id` - Fast user queries
- `idx_content_plans_target_date` - Calendar performance
- `idx_content_plans_status` - Status filtering

2. Backend API Endpoints

Content Plans CRUD

- `GET /api/content-plans` - List all plans for authenticated user
- `POST /api/content-plans` - Create new content plan
- `PUT /api/content-plans/<id>` - Update existing plan
- `DELETE /api/content-plans/<id>` - Delete plan

Special Endpoints

- `GET /api/content-plans/calendar` - Calendar view with color-coded events
- `GET /api/content-plans/stats` - Dashboard statistics (total, draft, scheduled, published)
- `POST /api/content-plans/<id>/generate-article` - Generate article from plan




3. Frontend UI Components

Statistics Dashboard

- 4 stat cards showing:
- Total Plans

- Draft Plans
- Scheduled Plans
- Published Plans
- Real-time updates on all operations

Calendar View

- **FullCalendar Integration** (v6.1.10)
- Month, week, and list views
- Color-coded events:
 -  Blue (Draft) - #3498db
 -  Orange (Scheduled) - #f39c12
 -  Green (Published) - #27ae60
- Click events to view details
- Dutch localization

List View

- Sortable table with columns:
 - Title (with description preview)
 - Keyword (badge style)
 - Target Date
 - Status (color-coded badge)
 - Actions (View, Edit, Delete)
- Mobile-responsive with horizontal scroll

Modal Forms

1. Create/Edit Plan Modal

- Title (required)
- Description (textarea)
- Keyword
- Target Date (date picker)
- Word Count (number input)
- Status (dropdown)

2. Plan Details Modal

- Full plan information
- Status badge
- Article generation button
- Edit button
- Linked article/WordPress site info

4. Integration Features

Article Generation

- One-click article generation from content plans
- Uses existing `generate_general_article()` function
- Automatically links generated article to plan
- Updates plan status to “scheduled”
- Redirects to content writer section

WordPress Integration

- Link plans to WordPress sites
- Track which site content will be published to
- Foundation for future auto-publishing

User Management

- All plans are user-scoped
- Authentication required for all endpoints
- Proper ownership verification



Design & UX

Color Scheme

Matches existing WritgoAI design:

- Primary Blue: #0C1E43 (-dark-blue)
- Light Blue: #00AEEF (-light-blue)
- Orange: #FFA62B (-orange)
- Status colors: Gray, Orange, Green

Responsive Design

- Grid layouts adapt to screen size
- Stats cards stack on mobile
- Calendar responsive
- Tables scroll horizontally on small screens
- Modals are mobile-friendly

Dutch Language

All UI text in Dutch:

- “Contentplanning”
- “Nieuw Plan”
- “Gepland”, “Concept”, “Gepubliceerd”
- Form labels and buttons



Mobile Responsive Features

- Flexible grid layouts (`repeat(auto-fit, minmax(200px, 1fr))`)
- Horizontal table scrolling
- Touch-friendly buttons
- Modal sizing adapts to viewport
- Calendar mobile view



Security Features

- User authentication required
- User-scoped data access
- SQL injection protection (parameterized queries)
- XSS protection (proper escaping)

- Ownership verification on updates/deletes



Statistics & Analytics

Real-time dashboard showing:

- Total content plans
- Plans by status (draft, scheduled, published)
- Upcoming plans (next 7 days)
- Updates automatically on all operations



Usage Workflow

1. **Navigate** to Contentplanning section
2. **View** statistics dashboard
3. **Switch** between calendar and list views
4. **Create** new plan with “Nieuw Plan” button
5. **Fill** in plan details (title, keyword, date, etc.)
6. **Generate** article directly from plan
7. **Track** status through workflow
8. **Edit/Delete** plans as needed



Files Modified

New Files

- `migrate_content_plans.py` - Database migration script

Modified Files

- `app.py` - Added ~450 lines (7 API endpoints)
- `templates/index.html` - Added ~600 lines (UI + JavaScript)
- `writgo_content.db` - New table and indexes



Testing

API Endpoints

- ✓ GET `/api/content-plans` - Returns user's plans
- ✓ POST `/api/content-plans` - Creates new plan
- ✓ PUT `/api/content-plans/` - Updates plan
- ✓ DELETE `/api/content-plans/` - Deletes plan
- ✓ GET `/api/content-plans/calendar` - Returns calendar events
- ✓ GET `/api/content-plans/stats` - Returns statistics
- ✓ POST `/api/content-plans/generate-article` - Generates article

Frontend

- ✓ Calendar renders correctly
- ✓ List view displays plans
- ✓ Modals open/close properly
- ✓ Forms validate and submit

- ✓ Stats update in real-time
- ✓ Mobile responsive verified



Dependencies

New (CDN)

- FullCalendar 6.1.10 - Calendar functionality

Existing

- Flask - Web framework
- SQLite3 - Database
- OpenAI API - Article generation
- Existing WritgoAI stack



Future Enhancements

Potential additions:

- Automatic publishing on target date
- Email notifications for upcoming deadlines
- Bulk operations (multi-select)
- Content templates
- Collaboration features
- Export to CSV/PDF
- Advanced filtering and search
- Recurring content plans
- Content performance tracking



Documentation

API Response Format

```
{
  "success": true,
  "plans": [
    {
      "id": 1,
      "title": "Article Title",
      "description": "Description",
      "keyword": "keyword",
      "target_date": "2025-10-15",
      "status": "draft",
      "article_id": null,
      "wordpress_site_id": null,
      "word_count": 1000,
      "created_at": "2025-10-10 09:00:00",
      "updated_at": "2025-10-10 09:00:00"
    }
  ]
}
```

Status Values

- `draft` - Initial state, content being planned

- `scheduled` - Ready for publication, article generated
- `published` - Content has been published



Conclusion

The content planning feature is now fully implemented and ready for use. It provides a comprehensive solution for editorial calendar management, seamlessly integrating with the existing WritgoAI platform.

Pull Request: #11

Branch: feature/content-planning

Status: Ready for review and merge

Implementation completed on October 10, 2025