

TMG CMS News API - Developer Documentation

Overview

The TMG CMS News API provides content management functionality for news articles on the front-end website. This API allows administrators to create, update, delete, and manage news articles that will be displayed to users.

Base URL: `https://api.tmg.com` (replace with your actual API URL)

Version: v1

Authentication: *To be implemented*

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Quick Start

Base API URL Structure

```
GET    /api/news-articles      # Get all articles (paginated)
GET    /api/news-articles/{id} # Get specific article
POST   /api/news-articles      # Create new article
PUT    /api/news-articles/{id} # Update article
DELETE /api/news-articles/{id} # Delete article
POST   /api/news-articles/{id}/publish # Publish article
POST   /api/news-articles/{id}/unpublish # Unpublish article
```

Content-Type

All requests should use:

Data Models

NewsArticle Response Model

json

```
{
  "id": 123,
  "title": "Breaking News: Major Development",
  "content": "Full article content here...",
  "metaDescription": "SEO meta description",
  "author": "John Doe",
  "summary": "Brief summary of the article",
  "tags": ["technology", "breaking", "business"],
  "category": "Technology",
  "featuredImageUrl": "https://example.com/image.jpg",
  "isPublished": true,
  "publishedAt": "2024-01-15T10:30:00Z",
  "createdAt": "2024-01-15T09:15:00Z",
  "updatedAt": "2024-01-15T10:30:00Z"
}
```

Create Article Request Model

json

```
{
  "title": "Article Title (Required, max 200 chars)",
  "content": "Full article content (Required, max 10,000 chars)",
  "metaDescription": "SEO description (Optional, max 160 chars)",
  "author": "Author name (Required, max 100 chars)",
  "summary": "Brief summary (Optional, max 500 chars)",
  "category": "Category name (Optional, max 50 chars)",
  "featuredImageUrl": "Image URL (Optional, max 500 chars)",
  "tags": ["tag1", "tag2", "tag3"]
}
```

Update Article Request Model

```
json
{
  "title": "Updated title (Required)",
  "content": "Updated content (Required)",
  "metaDescription": "Updated meta description (Optional)",
  "author": "Author name (Required)",
  "summary": "Updated summary (Optional)",
  "category": "Updated category (Optional)",
  "featuredImageUrl": "Updated image URL (Optional)",
  "tags": ["updated", "tags"]
}
```

Paginated Response Model

```
json
{
  "data": [
    {
      "id": 123,
      "title": "Article Title",
      // ... full article object
    }
  ],
  "totalCount": 156,
  "pageNumber": 1,
  "pageSize": 10,
  "totalPages": 16,
  "hasPreviousPage": false,
  "hasNextPage": true
}
```

Error Response Model

```
json
```

```
{
  "title": "Validation Failed",
  "errors": [
    "Title cannot be empty",
    "Content is required",
    "Author must be specified"
  ]
}
```

API Endpoints

1. Get All Articles (Paginated)

Endpoint: `GET /api/news-articles`

Query Parameters:

- `pageNumber` (optional, default: 1) - Page number to retrieve
- `pageSize` (optional, default: 10, max: 100) - Number of articles per page
- `isPublished` (optional) - Filter by published status (true/false)
- `searchTerm` (optional) - Search in title, content, and meta description

Example Request:

```
GET /api/news-articles?pageNumber=1&pageSize=20&isPublished=true&searchTerm=technology
```

Example Response:

```
json
```

```
{
  "data": [
    {
      "id": 123,
      "title": "Latest Tech News",
      "content": "Full content here...",
      "author": "John Doe",
      "isPublished": true,
      "createdAt": "2024-01-15T10:30:00Z"
    }
  ],
  "totalCount": 45,
  "pageNumber": 1,
  "pageSize": 20,
  "totalPages": 3,
  "hasPreviousPage": false,
  "hasNextPage": true
}
```

2. Get Single Article

Endpoint: `GET /api/news-articles/{id}`

Path Parameters:

- `id` (required) - Article ID

Example Request:

```
GET /api/news-articles/123
```

Example Response:

```
json
```

```
{
  "id": 123,
  "title": "Specific Article Title",
  "content": "Full article content...",
  "metaDescription": "SEO description",
  "author": "John Doe",
  "summary": "Article summary",
  "tags": ["tech", "news"],
  "category": "Technology",
  "featuredImageUrl": "https://example.com/image.jpg",
  "isPublished": true,
  "publishedAt": "2024-01-15T10:30:00Z",
  "createdAt": "2024-01-15T09:15:00Z",
  "updatedAt": "2024-01-15T10:30:00Z"
}
```

3. Create New Article

Endpoint: `POST /api/news-articles`

Request Body:

```
json
{
  "title": "New Article Title",
  "content": "Full article content here. This should be comprehensive and well-written content that provides value to the reader.",
  "metaDescription": "SEO-friendly description of the article",
  "author": "Jane Smith",
  "summary": "Brief summary that will be displayed on article lists",
  "category": "Technology",
  "featuredImageUrl": "https://example.com/featured-image.jpg",
  "tags": ["technology", "innovation", "business"]
}
```

Success Response (201 Created):

```
json
{
  "id": 124
}
```

4. Update Article

Endpoint: `PUT /api/news-articles/{id}`

Path Parameters:

- `id` (required) - Article ID to update

Request Body:

```
json
{
  "title": "Updated Article Title",
  "content": "Updated article content",
  "metaDescription": "Updated meta description",
  "author": "Jane Smith",
  "summary": "Updated summary",
  "category": "Business",
  "featuredImageUrl": "https://example.com/new-image.jpg",
  "tags": ["business", "update", "news"]
}
```

Success Response (204 No Content): *Empty body*

5. Delete Article

Endpoint: `DELETE /api/news-articles/{id}`

Path Parameters:

- `id` (required) - Article ID to delete

Success Response (204 No Content): *Empty body*

6. Publish Article

Endpoint: `POST /api/news-articles/{id}/publish`

Path Parameters:

- `id` (required) - Article ID to publish

Success Response (200 OK):

```
json
```

```
{  
  "message": "NewsArticle published successfully"  
}
```

7. Unpublish Article

Endpoint: `POST /api/news-articles/{id}/unpublish`

Path Parameters:

- `id` (required) - Article ID to unpublish

Success Response (200 OK):

```
json  
  
{  
  "message": "NewsArticle unpublished successfully"  
}
```

Error Handling

Validation Errors (400 Bad Request)

```
json  
  
{  
  "title": "Validation Failed",  
  "errors": [  
    "Title cannot exceed 200 characters",  
    "Content is required and cannot be empty",  
    "Author name must be between 1 and 100 characters"  
  ]  
}
```

Not Found Errors (404 Not Found)

```
json
```



```
{
  "title": "NewsArticle not found",
  "errors": [
    "NewsArticle with ID 999 was not found"
  ]
}
```

Server Errors (500 Internal Server Error)

```
json
{
  "title": "Internal Server Error",
  "errors": [
    "An unexpected error occurred while processing your request"
  ]
}
```

Status Codes

Code	Description	When It Occurs
200	OK	Successful GET requests, Publish/Unpublish operations
201	Created	Article successfully created
204	No Content	Article successfully updated or deleted
400	Bad Request	Validation errors, malformed request
404	Not Found	Article with specified ID doesn't exist
500	Internal Server Error	Unexpected server-side error

Examples

Front-End Integration Examples

JavaScript/TypeScript (Fetch API)

Get Articles for News Page:

```
javascript
```

```
async function getPublishedArticles(page = 1, pageSize = 10) {
  try {
    const response = await fetch(`/api/news-articles?pageNumber=${page}&pageSize=${pageSize}&isPublished=true`);

    if (!response.ok) {
      throw new Error(`HTTP error! status: ${response.status}`);
    }

    const data = await response.json();
    return data;
  } catch (error) {
    console.error('Error fetching articles:', error);
    throw error;
  }
}

// Usage
getPublishedArticles(1, 20)
  .then(result => {
    console.log(`Found ${result.totalCount} articles`);
    result.data.forEach(article => {
      console.log(`- ${article.title} by ${article.author}`);
    });
  })
  .catch(error => console.error('Failed to load articles:', error));
```

Get Single Article for Article Page:

javascript

```

async function getArticleById(articleId) {
  try {
    const response = await fetch(`/api/news-articles/${articleId}`);

    if (!response.ok) {
      if (response.status === 404) {
        throw new Error('Article not found');
      }
      throw new Error(`HTTP error! status: ${response.status}`);
    }

    return await response.json();
  } catch (error) {
    console.error('Error fetching article:', error);
    throw error;
  }
}

// Usage
getArticleById(123)
  .then(article => {
    document.title = article.title;
    document.getElementById('article-title').textContent = article.title;
    document.getElementById('article-content').innerHTML = article.content;
    document.getElementById('article-author').textContent = `By ${article.author}`;
  })
  .catch(error => {
    document.getElementById('article-content').innerHTML = '<p>Article not found</p>';
  });

```

Create Article (Admin Panel):

javascript

```

async function createArticle(articleData) {
  try {
    const response = await fetch('/api/news-articles', {
      method: 'POST',
      headers: {
        'Content-Type': 'application/json',
      },
      body: JSON.stringify(articleData)
    });

    if (!response.ok) {
      const errorData = await response.json();
      throw new Error(errorData.errors?.join(', ') || 'Failed to create article');
    }

    const result = await response.json();
    return result.id;
  } catch (error) {
    console.error('Error creating article:', error);
    throw error;
  }
}

// Usage
const newArticle = {
  title: 'My New Article',
  content: 'This is the full content of my article...',
  author: 'John Doe',
  summary: 'A brief summary',
  category: 'Technology',
  tags: ['tech', 'news']
};

createArticle(newArticle)
  .then(articleId => {
    console.log(`Article created with ID: ${articleId}`);
    // Redirect to article or show success message
  })
  .catch(error => {
    alert(`Error: ${error.message}`);
  });

```



```
import React, { useState, useEffect } from 'react';

function NewsArticlesList() {
  const [articles, setArticles] = useState([]);
  const [loading, setLoading] = useState(true);
  const [error, setError] = useState(null);
  const [currentPage, setCurrentPage] = useState(1);
  const [totalPages, setTotalPages] = useState(0);

  useEffect(() => {
    loadArticles(currentPage);
  }, [currentPage]);

  const loadArticles = async (page) => {
    try {
      setLoading(true);
      const response = await fetch(`/api/news-articles?pageNumber=${page}&pageSize=10&isPublished=true`);

      if (!response.ok) {
        throw new Error('Failed to load articles');
      }

      const data = await response.json();
      setArticles(data.data);
      setTotalPages(data.totalPages);
      setError(null);
    } catch (err) {
      setError(err.message);
    } finally {
      setLoading(false);
    }
  };

  if (loading) return <div>Loading articles...</div>;
  if (error) return <div>Error: {error}</div>;

  return (
    <div>
      <h1>Latest News</h1>

      {articles.map(article => (
        <article key={article.id} className="news-article">
          <h2>{article.title}</h2>

```

```

    <p className="article-meta">
      By {article.author} • {new Date(article.publishedAt).toLocaleDateString()}
    </p>
    <p>{article.summary}</p>
    <div className="tags">
      {article.tags.map(tag => (
        <span key={tag} className="tag">#{tag}</span>
      ))}
    </div>
  </article>
  )))

  <div className="pagination">
    <button
      onClick={() => setCurrentPage(p => Math.max(1, p - 1))}
      disabled={currentPage === 1}
    >
      Previous
    </button>

    <span>Page {currentPage} of {totalPages}</span>

    <button
      onClick={() => setCurrentPage(p => Math.min(totalPages, p + 1))}
      disabled={currentPage === totalPages}
    >
      Next
    </button>
  </div>
</div>
);
}

export default NewsArticlesList;

```

Integration Guide

For Public Website (Front-End)

1. News Listing Page

- Use `GET /api/news-articles?isPublished=true` to show only published articles
- Implement pagination for better performance

- Add search functionality using `searchTerm` parameter

2. Individual Article Page

- Use `GET /api/news-articles/{id}` to get full article content
- Handle 404 errors gracefully (show "Article not found" page)
- Use `isPublished` field to prevent showing unpublished articles

3. SEO Considerations

- Use `metaDescription` for meta tags
- Use `title` for page titles and H1 tags
- Use `tags` for keyword meta tags
- Use `publishedAt` for `article:published_time` meta tag

For Admin Panel (CMS)

1. Article Management

- Use all CRUD endpoints (Create, Read, Update, Delete)
- Implement draft/published workflow using publish/unpublish endpoints
- Show both published and unpublished articles in admin lists

2. Form Validation

- Implement client-side validation matching API requirements
- Handle API validation errors and display them to users
- Use proper form controls for all fields

3. User Experience

- Show loading states during API calls
- Implement auto-save for long-form content
- Provide immediate feedback for publish/unpublish actions

Performance Recommendations

1. Pagination

- Always use pagination for article lists (don't load all articles at once)
- Consider implementing infinite scroll for better UX

2. Caching

- Cache article lists on the front-end for better performance
- Cache individual articles to reduce API calls

3. Error Handling

- Implement retry logic for network errors
- Show user-friendly error messages
- Log errors for debugging

Security Considerations

1. Input Sanitization

- Always sanitize HTML content before displaying
- Validate all inputs on both client and server side

2. Authentication (When Implemented)

- Secure all CMS endpoints with proper authentication
 - Use HTTPS for all API communications
-

Testing

Test Data Examples

Sample Article for Testing:

```
json
{
  "title": "Test Article for Development",
  "content": "This is a comprehensive test article with enough content to verify that the API is working correctly. It c",
  "metaDescription": "A test article created for development and testing purposes to ensure API functionality",
  "author": "Test Author",
  "summary": "This is a test article summary that provides a brief overview of the content",
  "category": "Technology",
  "featuredImageUrl": "https://via.placeholder.com/800x400?text=Test+Image",
  "tags": ["test", "development", "api", "technology"]
}
```

Common Test Scenarios

1. Create and retrieve an article
2. Update article content and verify changes
3. Test pagination with different page sizes

4. Search functionality with various terms
 5. Publish/unpublish workflow
 6. Error handling (invalid IDs, malformed requests)
-

Support

For technical questions or issues:

- Check server logs for detailed error information
- Verify request format matches the documentation
- Ensure all required fields are provided
- Confirm data types and length limits

API Version: 1.0

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