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**Digital Newspaper Website  
Use-Case Specification: Generate Reports**

**Version 1.0**

**Revision History**

Date	Version	Description	Author
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# Use-Case Specification: Generate Reports

## 1. Use-Case Name: Generate Reports

### 1.1 Brief Description

This use case describes the process by which an Admin generates reports on the Digital Newspaper Website's performance, user activity, or content metrics using the content management system (CMS). The Admin selects report parameters, generates the report, and exports or views the results.

## 2. Flow of Events

### 2.1 Basic Flow

This use case starts when the Admin logs into the Digital Newspaper Website's CMS and accesses the reporting dashboard.

1. The Admin navigates to the "Reports" section in the CMS.
2. The system displays a list of available report types.
3. The Admin selects a report type and specifies parameters.
4. The system validates the input parameters.
5. The Admin selects the output format.
6. The system generates the report based on the selected type and parameters, retrieving relevant data from the CMS database.
7. The system displays the report on-screen or provides a download link for the selected format.
8. The Admin reviews the report and may choose to save, print, or share it via email.
9. The system confirms the successful generation and delivery of the report to the Admin.

### 2.2 Alternative Flows

#### 2.2.1 Custom Report Filters

- At Basic Flow step 3, the Admin applies advanced filters (e.g., specific Writers, article categories, or geographic regions for traffic).
- The system updates the report generation options to reflect the custom filters and proceeds with validation (returns to Basic Flow step 4).

#### 2.2.2 Export Failure

- At Basic Flow step 7, if the report export fails (e.g., due to file format issues or server timeout), the system displays an error message (e.g., "Export failed. Please try again or select a different format").
- The Admin can retry the export or choose a different format (returns to Basic Flow step 5).

## 3. Special Requirements

### 3.1 Supported Metrics

The CMS must support report generation for at least the following metrics: article views, user registrations, comment activity, and website traffic.

### 3.2 Performance

The system must generate and display or export reports within 10 seconds under normal server load for datasets up to 10,000 records.

### 3.3 Export Formats

The system must support report exports in PDF and CSV formats, with PDF reports adhering to a professional layout.

### 3.4 Browser Compatibility

The system must ensure compatibility with common browsers (e.g., Chrome, Firefox, Safari) for the reporting interface.

### 3.5 Data Privacy

The system must comply with GDPR for handling personal data included in reports.

## 4. Preconditions

### 4.1 Admin Authentication

The Admin must be registered and logged into the CMS with valid credentials.

### 4.2 Admin Permissions

The Admin must have the role of "Admin" with permissions to generate reports.

### 4.3 System Accessibility

The CMS must be accessible and operational.

### 4.4 Data Availability

The CMS database must contain relevant data (e.g., articles, user activity, or traffic metrics) for report generation.

## 5. Postconditions

### 5.1 Report Generation

The report is generated and either displayed on-screen or exported as a PDF or CSV file.

### 5.2 Confirmation

The Admin receives confirmation of the report generation or export.

### 5.3 Report Delivery

If exported, the report is saved or sent to the Admin's specified destination (e.g., downloaded file or email).

## 6. Extension Points

### 6.1 Schedule Report Generation

- Location: Basic Flow, step 3.
- The Admin can schedule recurring reports (e.g., weekly or monthly) by specifying a schedule and delivery method (e.g., email). The system generates and sends the report automatically at the specified intervals.

## 7. Low Fidelity Prototype For Use Case

### 7.1 Prompt Used for AI Tool

- Design an Admin Dashboard interface for a Digital Newspaper Website CMS that supports the "Generate Reports" use case.
- Functional Requirements: [2. Flow of Event ..... 6.Extension Points] (*Paste the use case specification from section 2 to 6 here*)

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- Assume the admin is already authenticated and viewing the CMS dashboard.
- 7.2 Generated Interface

The overall dashboard from the Admin perspective:

Digital News CMS

Search...

Dashboard

Reports

Articles

Users

Settings

Dashboard Overview

Total Articles

1,234

Active Users

5,678

Page Views

89,012

Comments

3,456

Custom Report Generator:

## Report Generator

Select report type, configure parameters, and generate custom reports

Report Type

Article Views

Track article performance and readership

Parameters

Date Range

Last 7 days

Categories

Technology

Author

Sarah Johnson

Advanced Filters

Regions

North America

Europe

Asia

South America

Africa

Oceania

Output Format

☒ PDF Report

☐ CSV Data

Selected Parameters

dateRange: last-7-days

category: Technology

author: Sarah Johnson

regions: Asia

Generate Report

## Report Preview

Preview and export your generated report

Article Views

Generated on 7/19/2025, 1:48:39 PM

PDF

Report Parameters

Date Range: last-7-days

Format: pdf

Category: Technology

Author: Sarah Johnson

Regions: Asia

Summary

273,726

Total Views

5,475

Avg Views

Data Preview

50 total records

Id	Date	Title	Views	Category	Author
1	2025-07-19	Article 1	7788	Sports	John Smith
2	2025-06-26	Article 2	401	Entertainment	Michael Chen
3	2025-07-09	Article 3	2492	Sports	Emily Rodriguez
4	2025-06-26	Article 4	4981	Sports	Emily Rodriguez
5	2025-06-24	Article 5	6026	Health	Emily Rodriguez
6	2025-07-16	Article 6	7338	Politics	John Smith
7	2025-07-05	Article 7	4442	Sports	Robert Kim

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## Schedule report for automation:

Schedule New Report

×

Basic Information

Report Name \*

e.g., Weekly Performance Summary

Report Type \*

Select report type

▼

Frequency \*

Select frequency

▼

🕒 Delivery Time

09:00 AM

🕒

✉ Recipients

+ Add

recipient@example.com

Format & Options

Output Format

PDF Report

▼

☒ Include charts and visualizations

☐ Automatically archive reports after 90 days

Cancel

Schedule Report

## Analytics on reports:

<div>Total Reports Generated</div> <div>1,234</div> <div>+12% from last month</div>	<div>Scheduled Reports</div> <div>23</div> <div>Active schedules</div>	<div>Most Popular Report</div> <div>Article Views</div> <div>45% of all reports</div>	<div>Export Format</div> <div>PDF</div> <div>Most used format</div>
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