Digital Newspaper Website
Use-Case Specification: Manage User Roles

Version 1.0

Revision History

Date	Version	Description	Author
18/07/2025	1.0	Complete the document	Trần Hữu Khang

404 Not Found

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Use-Case Specification: Manage User Roles

1. Use-Case Name: Manage User Roles

1.1 Brief Description

This use case describes the process by which an Admin manages user roles (e.g., Reader, Writer, Editor) on the Digital Newspaper Website. The Admin uses the content management system (CMS) to assign, modify, or revoke user roles to control access and permissions.

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 user management dashboard.

1. The Admin navigates to the "User Management" section in the CMS.
2. The system displays a list of registered users, including their names, email addresses, current roles (e.g., Reader, Writer, Editor, Admin), and account status (e.g., Active, Inactive).
3. The Admin selects a user from the list to manage their role.
4. The system displays the user's profile, including their current role and available actions (e.g., Assign Role, Modify Role, Revoke Role).
5. The Admin selects an action:
   a. **Assign Role**: The Admin assigns a new role (e.g., Writer, Editor) to a user with no role or an additional role.
   b. **Modify Role**: The Admin changes the user's existing role (e.g., from Writer to Editor).
   c. **Revoke Role**: The Admin removes a specific role from the user, reverting them to a default role (e.g., Reader).
6. The system validates the action (e.g., ensures at least one Admin remains, checks for role conflicts).
7. The Admin confirms the action.
8. The system updates the user's role in the CMS and sends a notification to the user via email or CMS notification, informing them of the role change.
9. The system confirms to the Admin that the user's role has been successfully updated.

2.2 Alternative Flows

2.2.1 *No Users Available*

- If no users are registered in the CMS, the system displays a message.
- The Admin may choose to invite a new user by entering their email address, triggering an invitation process.
- The use case ends.

2.2.2 *Invalid Role Assignment*

- At Basic Flow step 6, if the Admin attempts an invalid action (e.g., revoking the last Admin role or assigning conflicting roles), the system displays an error message (e.g., "At least one Admin role must remain" or "User cannot have both Writer and Editor roles").
- The Admin corrects the action and resubmits (returns to Basic Flow step 5).

3. Special Requirements

3.1 Admin Role Protection

The CMS must ensure that at least one user retains the Admin role at all times.

3.2 Performance

The system must load the user management dashboard within 3 seconds under normal server load.

3.3 Bulk Role Management

The system must support bulk role management for up to 100 users without performance degradation.

3.4 Browser Compatibility

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

3.5 Data Privacy

The system must comply with GDPR for handling personal user data during role management and notifications.

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 manage user roles.

4.3 System Accessibility

The CMS must be accessible and operational.

4.4 User Availability

At least one user must be registered in the CMS.

5. Postconditions

5.1 Role Update

The selected user's role is updated (assigned, modified, or revoked) in the CMS.

5.2 User Notification

The user is notified of the role change via email or CMS notification.

5.3 Admin Role Assurance

The system ensures that at least one Admin role remains active.

5.4 Action Confirmation

The Admin receives confirmation of the role management action.

6. Extension Points

6.1 Invite New User
- Location: Basic Flow, step 2.
- The Admin can invite a new user by entering their email address and assigning an initial role. The system sends an invitation link to the user, allowing them to register and activate their account with the assigned role.

7. Low Fidelity Prototype For Use Case

7.1 Prompt Used for AI Tool
- Design an Admin Interface for a CMS of a Digital Newspaper Website, supporting the "Manage User Roles" use case.
- Functional Requirements: [2. Flow of Event ……… 6.Extension Points] (*Paste the use case specification from section 2 to 6 here*)
- Optional: Search bar and filters (by role/status). / Sorting by name, role, or status. / Tags for user roles with color coding.

7.2 Generated Interface

Overall Data:

User Management

Manage user roles and permissions for the Digital Newspaper CMS

👤➕ **Invite User**

Total Users 👥	Active Users 🛡️	Admins 👑	Editors ✏️	Writers 📄
6	**5**	**2**	**2**	**2**

Filter User:

🔍 Search & Filters

✕ Clear All

Search Users

🔍 Search by name or email…

Filter by Role	Filter by Status	Sort By
Editor ⌄	Active ⌄	**Name** ⬇️ Role Status Last Login

Users (2)

0 selected

Manage user roles and permissions. Click on a user to modify their roles or use bulk actions for multiple users.

☐	User	Roles	Status	Last Login	Actions
☐	Sarah Johnson sarah.johnson@digitalnews.com	✏️ Editor	⭕ active	1/15/2024	⋯
☐	John Smith john.smith@digitalnews.com	👑 Admin ✏️ Editor	⭕ active	1/15/2024	⋯

Apply action simultaneously:

| 2 users selected | 👤 Assign Role ⌄ | 🖉 Editor ⌄ | Apply Action | ✕ Clear Selection |

Users (6)

2 selected

Manage user roles and permissions. Click on a user to modify their roles or use bulk actions for multiple users.

☐	User	Roles	Status	Last Login	Actions
☑	**Emily Rodriguez** emily.rodriguez@digitalnews.com	📄 Writer	⊘ inactive	1/10/2024	⋯
☐	**John Smith** john.smith@digitalnews.com	👑 Admin 🖉 Editor	🛡 active	1/15/2024	⋯
☐	**Lisa Thompson** lisa.thompson@digitalnews.com	👑 Admin	🛡 active	1/15/2024	⋯
☑	**Mike Chen** mike.chen@digitalnews.com	📄 Writer	🛡 active	1/15/2024	⋯
☐	**Robert Kim** robert.kim@digitalnews.com	👥 Reader	🛡 active	1/15/2024	⋯
☐	**Sarah Johnson** sarah.johnson@digitalnews.com	🖉 Editor	🛡 active	1/15/2024	⋯