Class ArticleGroupManager

java.lang.Object
    application.ArticleGroupManager

```
public class ArticleGroupManager
extends Object
```

The ArticleGroupManager class manages all operations related to ArticleGroups. This includes creating, reading, updating, and deleting article groups, as well as managing the articles within each group.

This manager provides CRUD operations for Staff members to organize help articles:

- Create new article groups
- Retrieve existing groups
- Update group information
- Delete groups
- Manage articles within groups

Since:

2025-11-16

Version:

1.0

Author:

Jad Khayyati

Constructor Summary

Constructors

Constructor	Description
ArticleGroupManager()	Constructs a new ArticleGroupManager with an empty collection of groups.

Method Summary

All Methods   Instance Methods
Concrete Methods

Modifier and Type	Method	Description
boolean	**addArticleToGrou** (int groupId, long articleId)	Adds an article to a specific group.
void	**clearAllGroups(**	Clears all article groups from the system.
ArticleGroup	**createGroup** (**String** groupName, **String** description)	Creates a new article group with the specified name and description.
boolean	**deleteGroup** (int groupId)	Deletes an article group by its ID.
List <**ArticleGroup**	**getAllGroups**()	Retrieves all article groups.
ArticleGroup	**getGroup** (int groupId)	Retrieves an article group by its ID.
int	**getGroupCount**()	Gets the total number of article groups in the system.
List <**ArticleGroup**	**getGroupsContain** (long articleId	Gets all groups that contain a specific article.
Map<**String** ,**Integer**>	**getStatistics**()	Gets statistics about the article groups in the system.
boolean	**groupContainsAr** (int groupId,	Checks if a group contains

Contents 🔍 Filter

‹

	`long articleId)`	a specific article.
boolean	**groupExists** `(int groupId)`	Checks if a group exists with the specified ID.
boolean	**removeArticleFr** `(int groupId, long articleId)`	Removes an article from a specific group.
List `<`**ArticleGroup**	**searchGroupsByN** `(`**String** `searchTerm)`	Searches for article groups by name (case-insensitive partial match).
boolean	**updateGroup** `(int groupId,` **String** `newName,` **String** `newDescription`	Updates both the name and description of an existing article group.
boolean	**updateGroupDesc** `(int groupId,` **String** `newDescription`	Updates the description of an existing article group.
boolean	**updateGroupName** `(int groupId,` **String** `newName)`	Updates the name of an existing article group.

Methods inherited from class java.lang.**Object**

clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

Constructor Details

ArticleGroupManager

public ArticleGroupManager()

Constructs a new ArticleGroupManager with an empty collection of groups.

Method Details

createGroup

public ArticleGroup createGroup
(String groupName,
 String description)

Creates a new article group with the specified name and description.

Parameters:

   groupName - The name for the new group

   description - The description for the new group

Returns:

   The newly created ArticleGroup

Throws:

   IllegalArgumentException - if groupName or description is invalid

getGroup

public ArticleGroup getGroup(int groupId)

Retrieves an article group by its ID.

Parameters:

   groupId - The ID of the group to retrieve

Returns:

   The ArticleGroup with the specified ID, or null if not found

getAllGroups

public List<ArticleGroup> getAllGroups()

Retrieves all article groups.

Returns:

A list of all ArticleGroups in the system

updateGroupName

```
public boolean updateGroupName
(int groupId,
 String newName)
```

Updates the name of an existing article group.

Parameters:

groupId - The ID of the group to update

newName - The new name for the group

Returns:

true if the group was updated successfully, false
if group not found

Throws:

IllegalArgumentException - if newName is
invalid

updateGroupDescription

```
public boolean updateGroupDescription
(int groupId,
 String newDescription)
```

Updates the description of an existing article
group.

Parameters:

groupId - The ID of the group to update

newDescription - The new description for the
group

Returns:

true if the group was updated successfully, false
if group not found

Throws:

IllegalArgumentException - if newDescription
is invalid

updateGroup

```
public boolean updateGroup
(int groupId,
 String newName,
 String newDescription)
```

Updates both the name and description of an existing article group.

Parameters:

   groupId - The ID of the group to update

   newName - The new name for the group

   newDescription - The new description for the group

Returns:

   true if the group was updated successfully, false if group not found

Throws:

   IllegalArgumentException - if newName or newDescription is invalid

deleteGroup

```
public boolean deleteGroup(int groupId)
```

Deletes an article group by its ID.

Parameters:

   groupId - The ID of the group to delete

Returns:

   true if the group was deleted successfully, false if group not found

addArticleToGroup

```
public boolean addArticleToGroup
(int groupId,
 long articleId)
```

Adds an article to a specific group.

Parameters:

groupId - The ID of the group to add the article to

articleId - The ID of the article to add

Returns:

true if the article was added successfully, false if group not found or article already in group

removeArticleFromGroup

```
public boolean removeArticleFromGroup
(int groupId,
 long articleId)
```

Removes an article from a specific group.

Parameters:

groupId - The ID of the group to remove the article from

articleId - The ID of the article to remove

Returns:

true if the article was removed successfully, false if group not found or article not in group

groupContainsArticle

```
public boolean groupContainsArticle
(int groupId,
 long articleId)
```

Checks if a group contains a specific article.

Parameters:

groupId - The ID of the group to check

articleId - The ID of the article to check for

Returns:

true if the group contains the article, false otherwise

getGroupsContainingArticle

```
public List
<ArticleGroup> getGroupsContainingArticle
```

(long articleId)

Gets all groups that contain a specific article.

Parameters:

articleId - The ID of the article to search for

Returns:

A list of ArticleGroups that contain the specified article

searchGroupsByName

public List
<ArticleGroup> searchGroupsByName
(String searchTerm)

Searches for article groups by name (case-insensitive partial match).

Parameters:

searchTerm - The term to search for in group names

Returns:

A list of ArticleGroups whose names contain the search term

getGroupCount

public int getGroupCount()

Gets the total number of article groups in the system.

Returns:

The count of article groups

groupExists

public boolean groupExists(int groupId)

Checks if a group exists with the specified ID.

Parameters:

groupId - The ID to check

Returns:

true if a group with this ID exists, false
otherwise

clearAllGroups

```
public void clearAllGroups()
```

Clears all article groups from the system. This
operation cannot be undone.

getStatistics

```
public Map<String,Integer
> getStatistics()
```

Gets statistics about the article groups in the
system.

Returns:

A map containing statistics (total groups, total
articles, etc.)