

# 4.7. Application Administrator - Recover users marked for deletion

<b>Id</b>	4.7.
<b>Description</b>	As a <b>Application Administrator</b> ,  I must be able to recover a user marked for deletion,  So that I can recover the access of a user that was deleted by mistake.
<b>Priority</b>	<b>High</b>
<b>Actors</b>	Application Administrator
<b>API Calls</b>	<b>GET</b> /admin/api-users/<user-id> <b>PUT</b> /admin/api-users/<user-id> <b>PATCH</b> /admin/api-users/<user-id>
<b>Linked Processes</b>	
<b>Status</b>	<b>Implemented</b>

## Preconditions

1. The User must be authenticated and have the **Application Administrator** role.
2. The system must have a list of predefined roles available for assignment.
3. The user to be recovered must be inactive and not yet be deleted.

## Postconditions

1. The user is active.
2. The user can again login and use the system in accordance with the assigned roles.

## Main flow

1. The **Application Administrator** retrieves the user that is marked for deletion (GET).

2. The **Application Administrator** uses an API to recover the user removing the flag “marked for deletion” (PUT/PATCH).
3. The system validates the input data.
4. The system saves the changes and updates the user list.

## Exceptions

### [400 Bad Request] Invalid input:

If mandatory fields are missing or invalid, the system returns an error message.

### [404 Not found] User not found

If the **Application Administrator** attempts to recover a user that does not exist, the system returns an error and prevents the action.

### [409 Not marked for deletion] User not marked for deletion

If the **Applicaiton Administrator** attempts to recover a user that is not marked for deleting, the system returns an error and prevents the action.

### [500 Internal Server Error] System Error

If the system fails to save changes due to an internal error, it displays an appropriate message and logs the error for further investigation.

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