

# Managing Authorization info in Angular UI

In Nov/Dec 2019, Additional discussion on this topic has occurred from the REST API standpoint, see [REST Authorization](#).



Also see the new authorization endpoints in REST Contract:

- "authorizations" endpoint: <https://github.com/DSpace/Rest7Contract/blob/master/authorizations.md>
- "features" endpoint: <https://github.com/DSpace/Rest7Contract/blob/master/features.md>
- (Also related: "resourcepolicies" endpoint: <https://github.com/DSpace/Rest7Contract/blob/master/resourcepolicies.md>)

This page is meant for brainstorming & idea gathering. Currently a final solution does not exist. Once it does, this page can be replaced or removed.

## Problem

1. Ideally, we would not like to hardcode "roles" or permission levels into the Angular UI itself.
  - a. Some areas of the UI currently hardcode roles, e.g. <https://github.com/DSpace/dspace-angular/issues/393>
2. Instead, we'd prefer all authorization information (for currently logged in user) be passed to the UI layer via the REST API response (or cached as needed based on previous responses, e.g. a user's group membership may need to be cached on login)
3. There is no clear single solution for all scenarios/needs in the UI layer. We may need to use different solutions for different scenarios (uncertain)
  - a. More background info here: <https://github.com/DSpace/dspace-angular/issues/242>

## Possible Solutions / Partial Solutions

1. For some areas of the UI, it may be relatively easy to describe authorization rights using predefined HAL `_links` (i.e. if a link is present you can perform a specific action) in the latest REST response.
  - a. For example, on an Collection page, the UI could display an "Edit" link *only if* a HAL link named "edit" is provided in the Collection's REST response. This may be an easy way for the backend to return the currently logged in user's access *on a single object* by just specifying which links are available to that user.
2. For some areas of the UI, it may be necessary to check a user's Group membership to determine authorization rights
  - a. For example, Administrative options (at the Site level) should only be displayed if the user is a member of the "Administrator" group.
  - b. This group membership information may need to be cached in the UI layer, as it won't be available in every response.