

# Planning: Beyond Iteration 3

## Requirements

### Elicitation

#### Target Users

Name	Email	Initials
Raymond Lam	z5316259@ad.unsw.edu.au	RL
Wyman Tran	z5309379@ad.unsw.edu.au	WT

### Q&A

Question Number	Question	Response
1.1	What is one teamwork-driven communication tool you currently use and what do you use it for?	RL: Microsoft Teams for my job at UNSW.
		WT: Microsoft Teams for university course work and my job.
1.2	What is one problem you have encountered while using the tool you identified in 1.1?	RL: Since I need to refer to various files that have been uploaded, I frequently need to navigate to a Teams channel and then to the Files tab to find what I need. This becomes quite cumbersome when the file is stored within multiple folders.
		WT: As a student and employee at UNSW, I am a part of both study-related teams and work-related teams. While I do have some control over how the teams are arranged, I still find it quite annoying that both teams are muddled together as it makes my Teams page feel very clustered. This is especially the case for teams that are active or have on-going activity since I cannot remove them from view. This issue also applies to the channels created within a team as my list of channels can become quite hard to sort through during busy periods of the term.

<b>1.3</b>	How would you improve upon the problem you identified in 1.2?	<b>RL:</b> The problem would be eliminated if I could save files to a Favourites tab, which would allow me to access it quickly via a shortcut. Otherwise, a simple search feature would be nice for locating the files.
		<b>WT:</b> I would improve upon the problem by creating folders on the Teams page so I can separate my study-related teams from my work-related teams and then have something to indicate which folder a particular team's channel is a part of.
<b>1.4</b>	Do you have any other comments regarding your experience using the tool you identified in 1.1? Please share.	<b>RL:</b> Teams currently has a Files tab which shows recently opened files but this includes all files so it's still an inconvenience to sort through.
		<b>WT:</b> No.

## Defining a Problem

Since our current version of Seams does not have the functionality to upload, store and access files, we decided to tackle the problem raised by Wyman instead. Converting Wyman's issues with Microsoft Teams into the context of UNSW Seams, the issue boils down to having a cluttered working environment when the user is a member of multiple active channels. Hence, we will attempt to propose a solution that improves the clarity of Seams' interface.

## Ideating Solutions

To improve the clarity of Seams' interface, we could:

- Implement a feature which allow users to categorise channels
  - Categories by name
  - Categories by colour
  - Categories by pattern
- Implement a feature which allow users to hide inactive channels (as opposed to leaving them)

## Proposing a Solution

We decided that in order to improve the clarity of Seams' interface, the best course of action would be to implement a feature which would allow users to categorise channels by a name of their choice. In practice, this would help the user better distinguish between the different types of teams that they may be a part of.

## Analysis & Specification - Use Cases

### User Stories

"As a student assistant at UNSW, I want to organise my channels so that I can quickly distinguish between coursework and job-related matters."

### User Acceptance Criteria

- The user can add a category tag to existing channels by right-clicking the channel on the channel list and selecting the option "Add category tag"
- The user is prompted to enter a name once they press "Add category tag"
- The field contains a placeholder with grey-coloured text: "Name of category tag"
- The placeholder disappears once the user starts typing
- The channel's category tag is updated once the user enters a name and presses "Ok"
- The category tag is added in grey-coloured text to the left of the channel's name as viewed on the channel list
- The category tag is only added if the user enters a name
- The user cannot type more than 100 characters
- The category tag is only visible to the user who added it

### Use Case

#### Main success scenario

1. User right-clicks channel on channel list
2. User selects "Add category tag" option
3. User is prompted to enter a name
4. User enters a name with 10 characters
5. User confirms their choice by pressing "Ok"
6. The category tag is added beside the channel name

### Validation

- **Question 2.1:** To what extent does the use case describe the problem you identified in the initial survey?
  - **WT:** Within my understanding of UNSW Seams, the use case you presented perfectly captures the problem I was attempting to solve. I believe the solution suitably relieves the user pains that I outlined in the initial survey (and this is with consideration that UNSW Seams is not completely the same as Microsoft Teams).

# Design

## Interface Design

Name & Description	HTTP Method	Data Types	Exceptions
<p>channel/add_category/v1</p> <p>Given a channel with ID channel_id that the authorised user is a member of, add category_name as the category tag for the channel. The category tag is only visible to the user who added it.</p>	POST	<p><b>Parameters:</b></p> <pre>{ token,   channel_id,   category_name }</pre> <p><b>Return Type:</b></p> <pre>{ }</pre>	<p><b>InputError</b> when any of:</p> <ul style="list-style-type: none"> <li>channel_id does not refer to a valid channel</li> <li>category_name is less than 1 or over 100 characters</li> </ul> <p><b>AccessError</b> when:</p> <ul style="list-style-type: none"> <li>channel_id is valid and the authorised user is not a member of the channel</li> </ul>
<p>channel/edit_category/v1</p> <p>Given a channel with ID channel_id that the authorised user is a member of, edit the category tag of the channel to be category_name. This change is only visible to the user who initially added the category tag.</p>	PUT	<p><b>Parameters:</b></p> <pre>{ token,   channel_id,   category_name }</pre> <p><b>Return Type:</b></p> <pre>{ }</pre>	<p><b>InputError</b> when any of:</p> <ul style="list-style-type: none"> <li>channel_id does not refer to a valid channel</li> <li>category_name is less than 1 or over 100 characters</li> </ul> <p><b>AccessError</b> when:</p> <ul style="list-style-type: none"> <li>channel_id is valid and the authorised user is not a member of the channel</li> </ul>
<p>channel/remove_category/v1</p> <p>Given a channel with ID channel_id that the authorised user is a member of, remove the category tag of the channel. This change is only visible to the user who initially added the category tag.</p>	DELETE	<p><b>Parameters:</b></p> <pre>{ token,   channel_id }</pre> <p><b>Return Type:</b></p> <pre>{ }</pre>	<p><b>InputError</b> when any of:</p> <ul style="list-style-type: none"> <li>channel_id does not refer to a valid channel</li> <li>there does not exist a category</li> </ul> <p><b>AccessError</b> when:</p> <ul style="list-style-type: none"> <li>channel_id is valid and the authorised user is not a member of the channel</li> </ul>

<p>channel/show_category/v1</p> <p>Given a category with name category_name, show all channels that the user has labelled with that category name.</p>	GET	<p><b>Parameters:</b></p> <pre>{ token,   category_name }</pre> <p><b>Return Type:</b></p> <pre>{ channels }</pre>	<p><b>InputError</b> when:</p> <ul style="list-style-type: none"> <li>there user does not have any channels under the category name</li> </ul>
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## Conceptual Modelling (State)

[https://lucid.app/lucidchart/e0f231a0-3477-41e2-a947-c3229f663f70/edit?invitationId=inv\\_7ace96d1-6c1a-4ede-9de2-87e58255562e](https://lucid.app/lucidchart/e0f231a0-3477-41e2-a947-c3229f663f70/edit?invitationId=inv_7ace96d1-6c1a-4ede-9de2-87e58255562e)

