

Multuser support in Web Hob

A few different ways to support team workflows

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Requirement	Score
Support multi-user teams (multi-user accounts, permissions, team tools, etc)	5
Enable sharing of configuration and setup process with others	2
Enable duplication of configuration and setup process with others	2
Teams work separately on local machines then submit changes to server	2
Allow teams to open and modify files on server quickly	1
Enable secure sharing of source code and builds within a team	0
Enable sharing of built toolchains	0
Enable sharing of intermediate build sets	0
Enough user account support to allow for different permissions / access	0
Support source control without surfacing its complexity	-1

Multiuser requirements

This is a list of the multiuser requirements that were identified as part of the strategy project led by Tobias & Tobias.

The table also shows the results of the requirements scoring exercise .

It is worth remembering that the scoring exercise did not include any non-Intel parties, except Tobias & Tobias themselves, and therefore might not reflect other Yocto Project partners' priorities.

NOTE: I have split the requirement "Enable sharing / duplication of configuration and set up process with others" into 2 (sharing and duplication), since at least one of the design approaches provided will support one, but not the other.

1. A minimalistic approach

This option aims to provide the absolute minimum functionality required to cover the multiuser use cases.

It implements only 2 user types with very basic permissions, and relies on copy, import and export functions.

This is the option we have included in the current interaction design with Tobias & Tobias, under the premise that it is better to start small than to start with a complex solution and then discover it is the wrong one.

2. Users and permissions

In this option, Web Hob provides 2 types of users:

Project owner: a user creating a project is the project owner of such project. Project owners have full control over the projects they own. They can give other users access to the project and allocate them different permissions (see below).

Project user: any Web Hob user who has access to a project without being the project's owner. Project users can have any (or all) of the following permissions:

- Read only
- Download project output
- Run project builds
- Copy project

3. Scenario

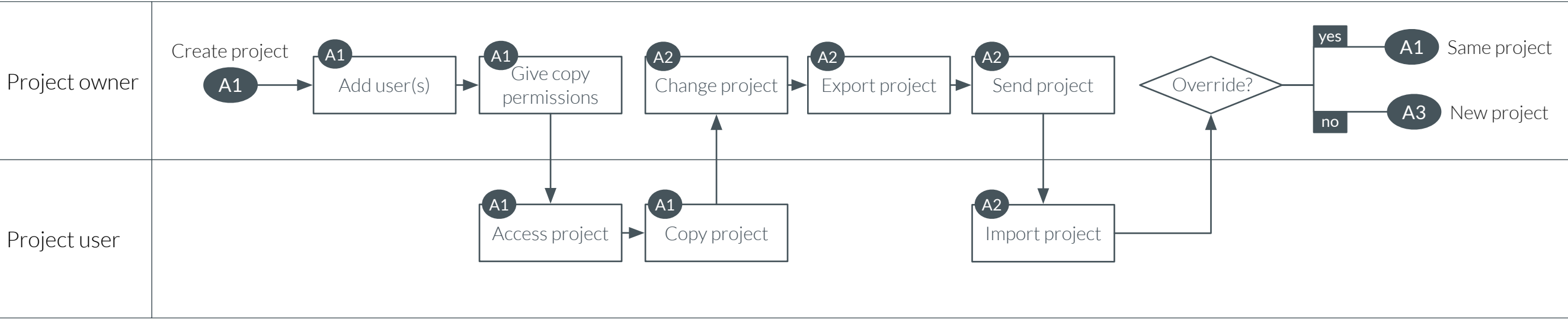
Paul creates a project A1 and he's therefore project A1's owner. He needs to work with Jessica, so he gives her access to project A1 and grants her copy permissions.

Jessica accesses project A1 and copies it, so she is now the owner of project A2, which is identical to A1. She might give Paul access to project A2, maybe on a read-only basis.

Jessica has made some changes to the project A2. In order to share them with Paul, she exports project A2 and sends it to Paul. Paul imports the project A2 and Web Hob gives him 2 options:

Option 1: create a new project A3, which will be identical to A2.

Option 2: override project A1 with A2, so that A1 is now identical to A2. Changes are kept on project A1's change history.



Requirement	Score	Option 1 (Minimal)
Support multi-user teams (multi-user accounts, permissions, team tools, etc)	5	basic
Enable sharing of configuration and setup process with others	2	basic
Enable duplication of configuration and setup process with others	2	yes
Teams work separately on local machines then submit changes to server	2	no
Allow teams to open and modify files on server quickly	1	no
Enable secure sharing of source code and builds within a team	0	basic
Enable sharing of built toolchains	0	yes
Enable sharing of intermediate build sets	0	yes
Enough user account support to allow for different permissions / access	0	basic
Support source control without surfacing its complexity	-1	no