Data Management Tool

Lecture: Data Management in Quanitative Biology

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Abstract

Bla bla blubb

1 Introduction and Motivation

- based on data → description how to store, analyze, integrate data [1], as well as meta information
- no existing standard, but DAMA-DMBOK as orientation which information are useful (!not complete!)[1]
- Essential aspects concern: - Data acquisition, standards, file formats - Data sharing - Data preservation [1]
- why manage and share data?
– making data available → can impinge positive on the work (concerning discovery and relevance) (`http://libraries.mit.edu/data-management/plan/why/`)
- nice picture of research data life cycle: `http://data.library.virginia.edu/data-management/`

2 Result: DMPcreator

The result of our implementation efforts is the user friendly webinterface `DMPcreator`. The tool is structured into five slides. Every slide...
The first slide, the *General Information Slide* 2.1, provides fields letting the user enter general information about his project, for example the project name, the person in charge of the project and contact data. Furthermore, the user can upload his .TSV file created by `Q-Wizard`. One important topic that needs to be covered when creating a data management plan is *Roles & Responsibilities* 2.2. This second slide allows the user to assign roles to persons. The chosen values are added two a responsibilities list. Having specified who is responsible for which data, the user still has to decide, how the data is stored. Here comes the third slide *ContentManagement*2.3 in handy. Here the user can assign file types to an associated description. This so built content is then added to a content table.

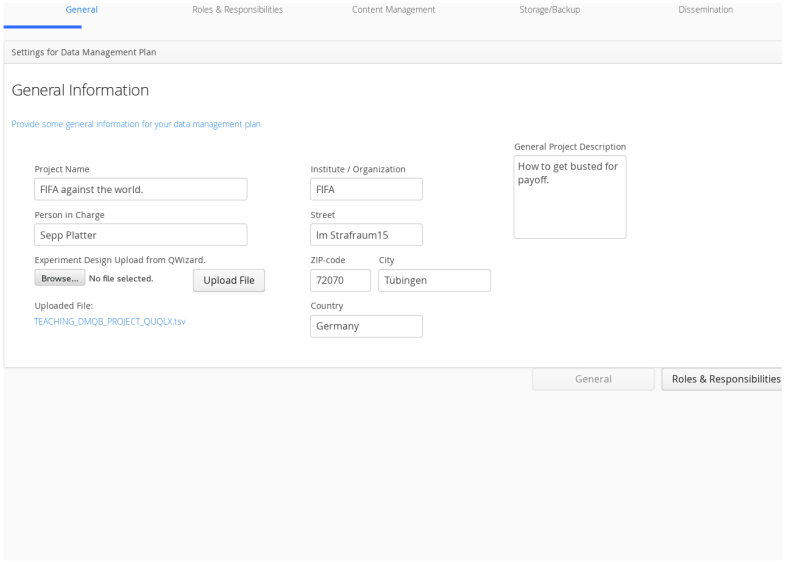

Figure 2.1: *General Information* Slide of `DMPcreator`. The progress bar is placed on the top. Fields that are fillable by the user can be seen below. Note, a special upload field for the .TSV file from `Q-Wizard` is visible on the left bottom.

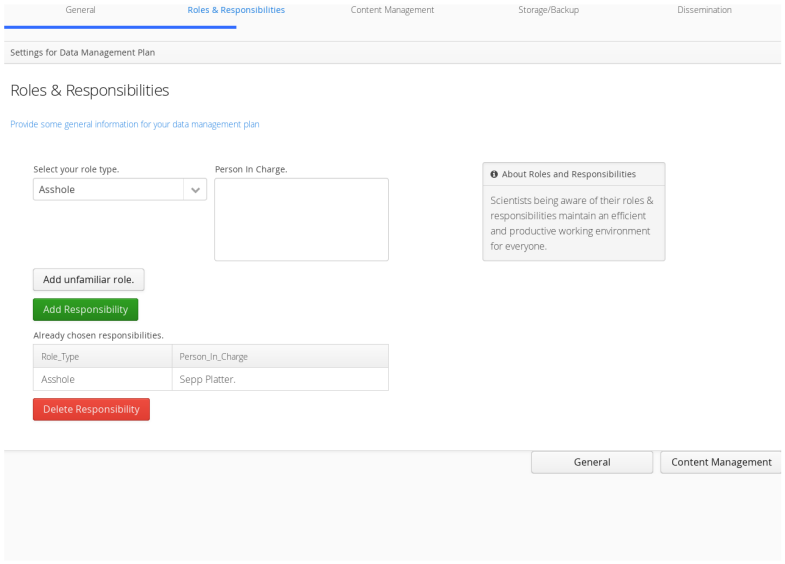

Figure 2.2: *Roles & Responsibilities* Slide of `DMPcreator`. The progress bar is placed on the top. Fields that are fillable by the user can be seen below.

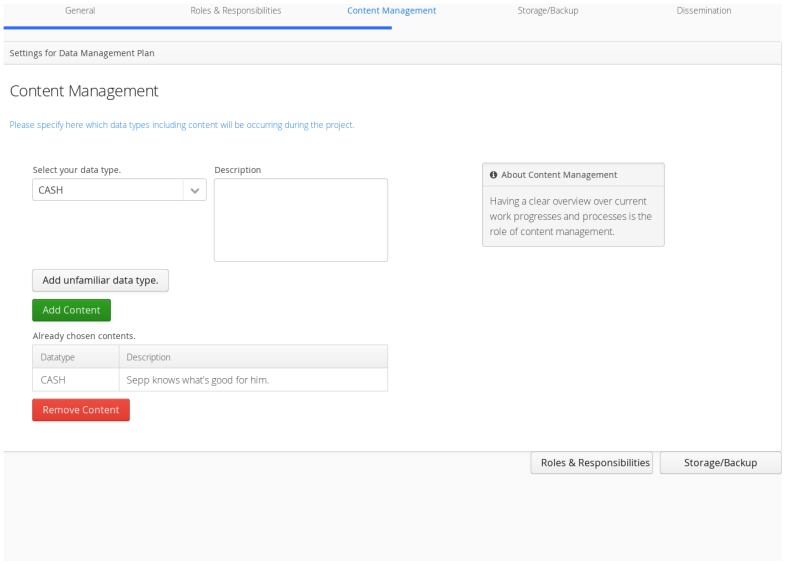

Figure 2.3: *Content Management* Slide of `DMPcreator`. The progress bar is placed on the top. Fields that are fillable by the user can be seen below.

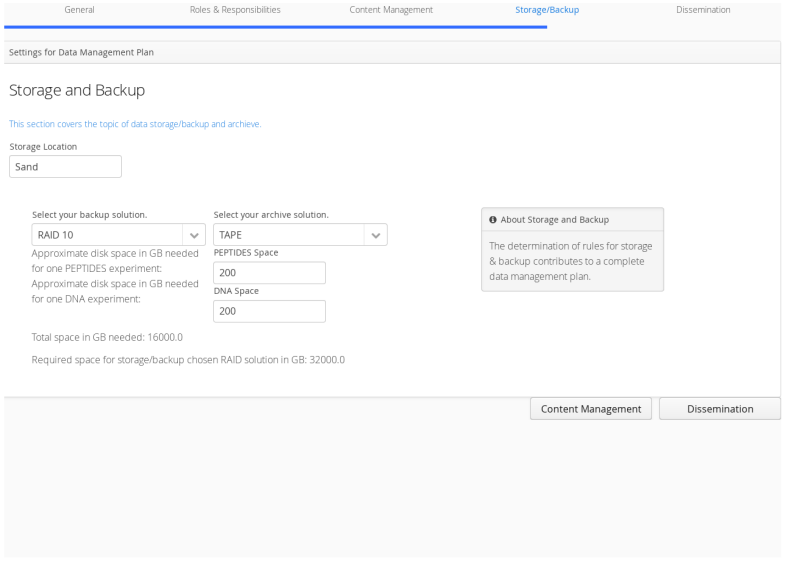

Figure 2.4: *Storage & Backup* Slide of `DMPcreator`. The progress bar is placed on the top. Fields that are fillable by the user can be seen below.

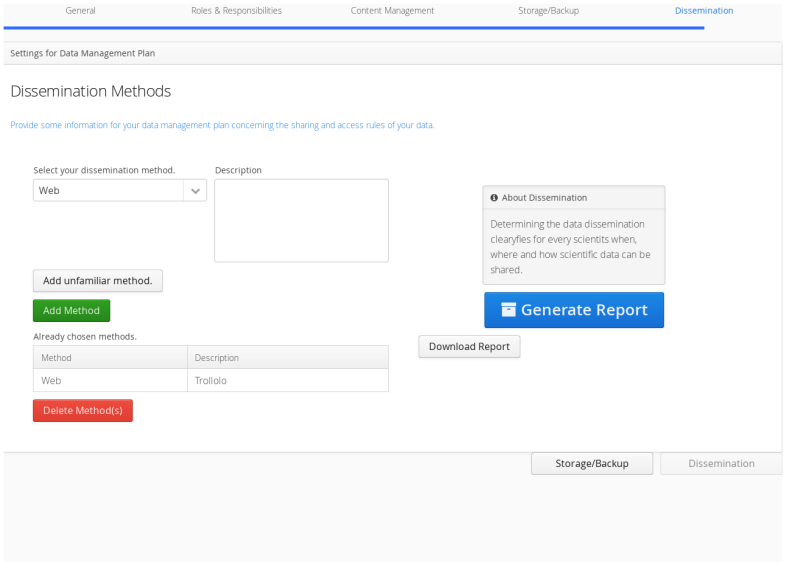

Figure 2.5: *Dissemination* Slide of `DMPcreator`. The progress bar is placed on the top. Fields that are fillable by the user can be seen below.

References

[1] Sven Nahnsen. Lecture notes in data management in quantitative biology, April 2015.