Google Summer of Code 2020 : Unified Form

Personal information

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Proposal

Problem:

Overwhelming terms like Work, Edition, Edition Group might not be the best choice for new editors. Editor have to create works individually, and link the books though relationships section. The Author as well as the publisher have to be created before linking them with their respective books. The ease to add new books relevent details help improve editor exprience by reducing the time consumed in creating an edit.

Plan:

I plan on merging possible entites into a single Unified form to go alongside the current forms. Creating a tab based approach for data related to book. Tabs could be content, basic info, and additional properties. The content tab will focus on content of the book like the works included in the book, description of the book, genre of the book, etc. The basic information will focus on the title of the book, orignality as in if its translated or original edition. the author and publisher of the title. and if its translated then the translators details. The additional details tab would be focused on the external links, identifiers and other resources identifiers of the book. The UI components and other resources will be referred from https://github.com/metabrainz/design-system# to keep it Uniform with other MetaBrainz Projects. It will also use MusicBrainz pattern of making the property name bold if its required.

Project Details

Basic Info Tab

Basic information tab focuses on basic attributes of a book like its title, author, release date, language, etc.

Below are the property list and the most probable type that will be used for it

Property	Type
Title	InputField
Author	EntitySearchField with add new option
Format	SelectField
Publisher	EntitySearchField with add new option
Release Date	PartialDate
Is Translated	Checkbox
Translator	EntitySearchField with add new option of type Author

Language	SelectField
Original Language	SelectField

Original Language and Translator fields would only come up incase the isTranslated field is selected as that would mean that the book is translated.

Content Tab

The Content tab is focused on the content of the Book as in the works it contains like poems, pieces of literature, articles, short story, etc. This is basically the area where the data of work is embedded or related to the current book. It will be the portion of book that related it to Work Entity in the current setup.

Below are the property list and the most probable type that will be used for it

Property	Type
Description	InputField
Content	Dynamically created table of ContentType(Work)

The Content Type could be considered as

Property	Type
Title	InputField
Content Type	SelectField
Addition Properties	Modal

Other Additional properties that appear in the modal include identifiers for each content

Additional Properties

Additional properties focuses on less interesting stuff that could be left optional like identifiers, external links like wikipedia urls, etc. This tab is for all the other information that can be obtained from editors.

Below are the property list and the most probable type that will be used for it

Property	Type
Dimenstions	Width and height InputFields
Weight (incase physical book)	InputField
Identifiers	Dynammic TableOfIdentifiers
External Links	Dynammic TableOfExternalLinks

Table of Identifiers

Property	Type
Type	Select Field

Identifier	FormatedInputField

Table of External Links

Property	Type
Type	Select Field
Link	FormatedInputField

The Identifiers in here are linked to the book as an Edition.

These tabs are the basic tabs that exist at all times, apart from these there are two mode tabs that will be invoked incase author / publishers EntitySeachField's create new option is invoked. These two tabs are Author and Publisher. They will be used to get Author / Publisher related information from editors incase they want to create new author or publisher. It improves the current way of having to create everything in a new tab, by using internal tab based approach.

Author Tab

This tab is focused on getting obtaining information about the new author to be created. The name property of this tab would be linked with the EntitySearchField so changes would reflect on both areas. This tab takes in information like birth and death information incase the author is dead, Place / Area where the author is from and some other details.

Below is a table that lists the properties of the author tab and its probable type.

Property	Type
Name	InputField
Alias	AliasModal
Gender	SelectField
Birth Date	PartialDate
IsDead	Checkbox
DeathDate	PartialDate
Language	SelectField

Publisher Tab

This tab is focused on information related to Publishers. It becomes visible when editor chooses create new option in EntitySearchField.

Below is a table that lists the properties of the Publishers tab and its probable type.

Property	Type
Name	InputField

Alias	AliasModal
Languages	SelectField
Date Founded	PartialDate
Area	EntitySearchField of type place

These are all the tabs that are supposed to be a part of the Unified Form.

Detailed information about yourself

- Tell us about the computer(s) you have available for working on your SoC project! I have a MacBook Pro 2015 for working on during the summer of code as well as a custom build pc with 4th Gen i5 with 16gb ram and GTX 970.

- When did you first start programming? I started programming in high school as a competitive programmer

- What type of music do you listen to? (Please list a series of MBIDs as examples.)

  - If applying for a BookBrainz project: what type of books do you read? (Please list a series of BBIDs as examples. (And feel free to also list music you listen to!))

- What aspects of the project you're applying for (e.g., MusicBrainz, AcousticBrainz, etc.) interest you the most? Bookbrainz was created initially in React and has a lot of potential to become a good website. It interests me as there is a high scope of improvement in the project and a good playground for me to learn and improve myself just by improving the experience of BookBrainz users.

- Have you ever used MusicBrainz to tag your files? I haven't as of now as I don't keep music locally and prefer steaming it.

- Have you contributed to other Open Source projects? If so, which projects and can we see some of your code? For the past year I've heavily contributed to musicbrainz project and all of the code can be found at https://github.com/pulls?q=is%3Apr+author%3Aanirudhjain75+musicbrainz-server

- What sorts of programming projects have you done on your own time? I've created various type of projects from mobile app to websites and also games.

- How much time do you have available, and how would you plan to use it? I have around 5-7 hours daily everyday which I can put on working during Summer of Code. That should be around 35 - 49 hours Weekly.

- Do you plan to have a job or study during the summer in conjunction with Summer of Code? No I dont have any such plans as of now, other than interviewing at companies for internships and placement offers.