



Google Summer of Code

PROPOSAL

Implement a "Series" entity

By

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MetaBrainz



BookBrainz

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Project Name: Implement a "Series" entity

Project overview

Bookbrainz lacks a feature which allows a person to create a **series entity**. A **series** is a sequence of separate **author**, **work**, **edition**, **edition-group** with a common theme. The individual entities will often have been given a number indicating their **position** in the series.

FEATURES

→ Basic Features :

- ❖ A user can create a **series** entity of a particular **entity type**. For ex: **Author-Series**, **Work-Series**, **Edition-Series**, **Edition-Group-Series** and can store the entities of that type in the **Series**.
- ❖ Implement a **type** Property. The **type** property primarily describes what **type of entity** the **series** contains. The type property will **restrict** the

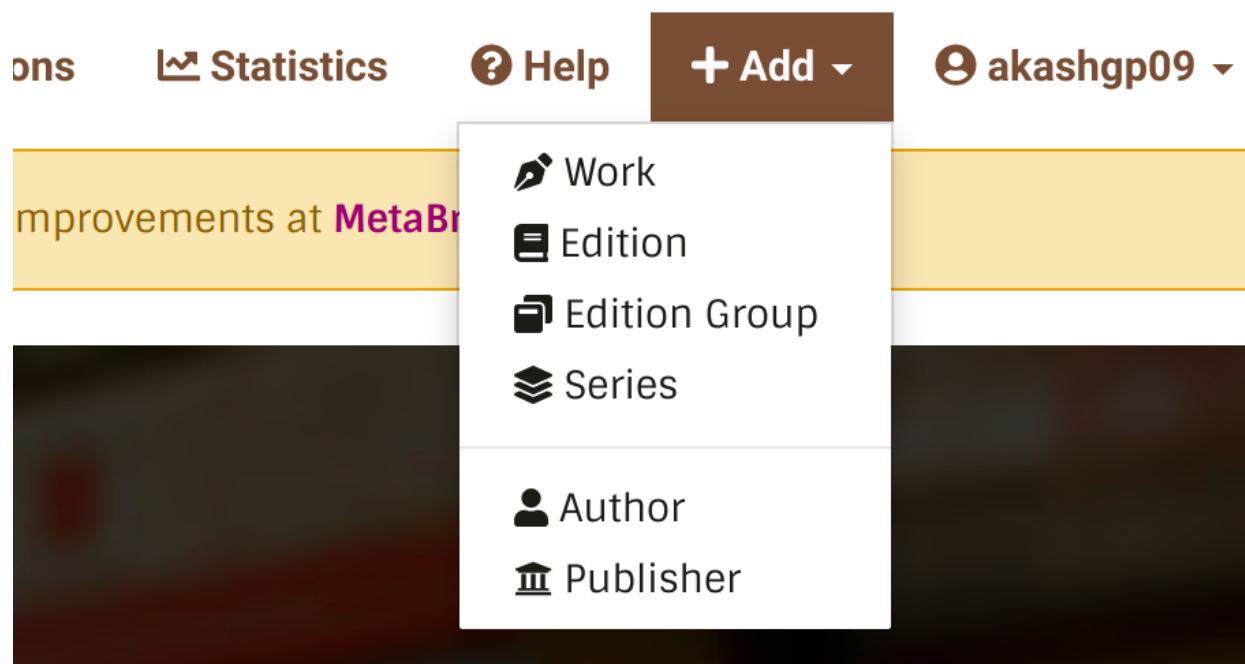
series entity to just **one entity type**. No series will contain **entities** of different types (i.e work and edition within a same series entity is **invalid**)

- ❖ Implement a property **Ordering type**, which will provide the user a choice to **order** their individual entities in the series **manually** or **automatically**.
- ❖ **Manual Ordering of entities in series** provides flexibility to the user to **self position** the individual entities by **assigning a number** to each entity indicating their **order in the series**.

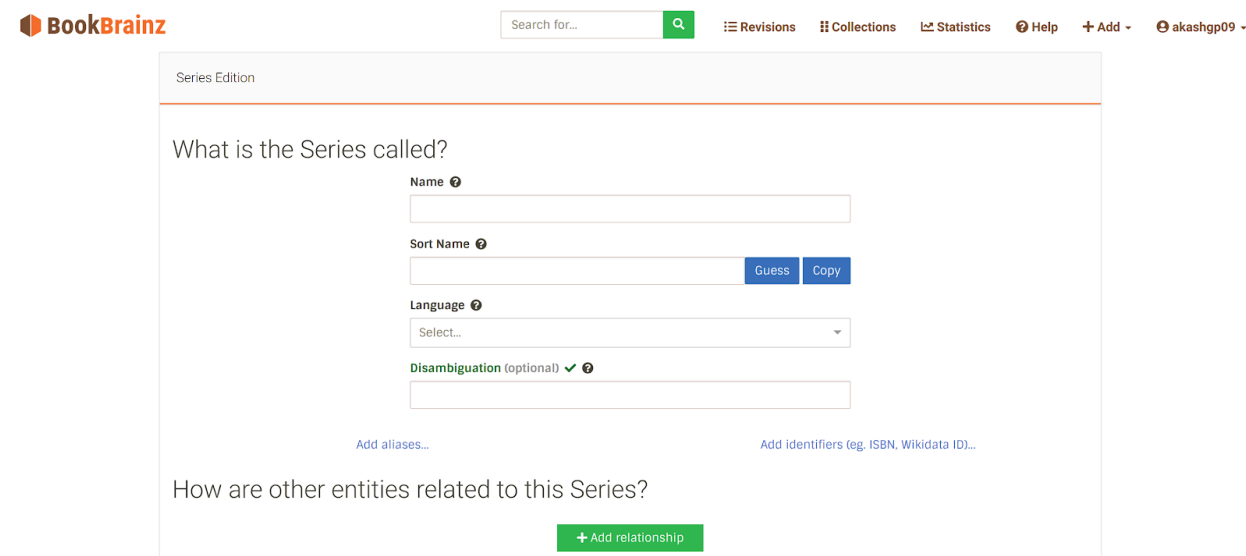
UI Prototype

The add navbar item on the homepage will now have an additional item: **Series**.

Note: For Better presentation of UI, I have **arbitrarily picked** an icon to represent the **series entity**. It will be changed accordingly



Clicking on the **Series** menu item will take us to **Series Entity Creation page**



BookBrainz

Search for...

Revisions Collections Statistics Help Add akashgp09

Series Edition

What is the Series called?

Name

Sort Name

Language

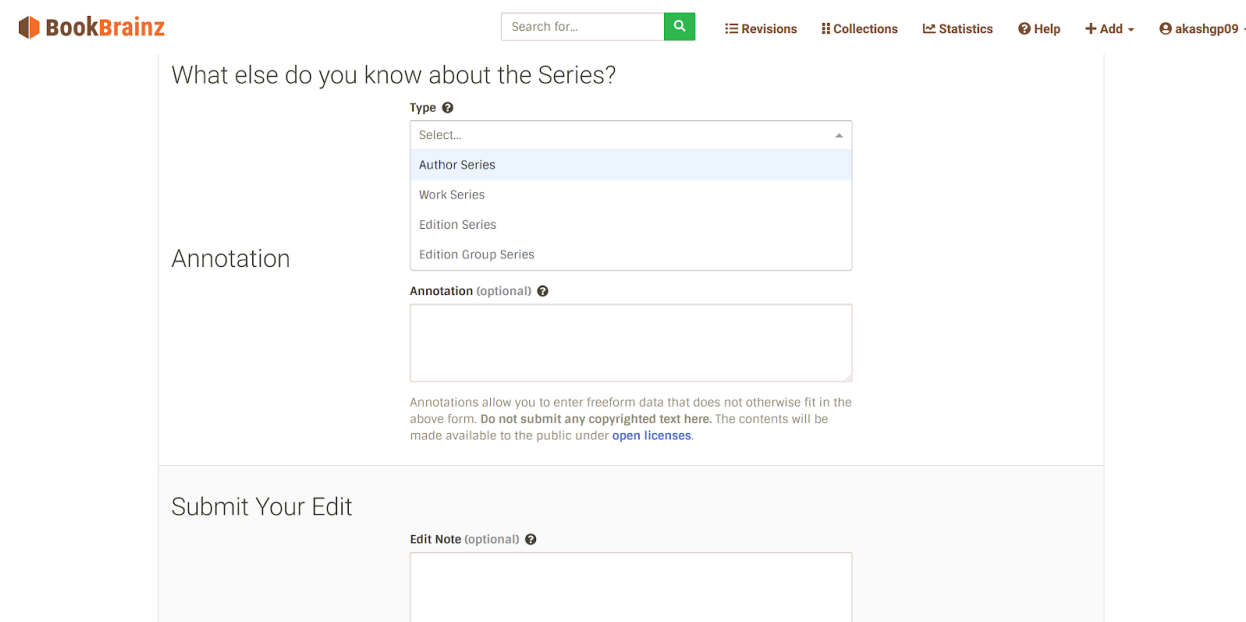
Disambiguation (optional)

Add aliases... Add identifiers (eg. ISBN, Wikidata ID)...

How are other entities related to this Series?

+ Add relationship

Similar to other entities, a user can enter the **Name**, **Sort Name**, **Language**, **Disambiguation**, **Alias** and **Identifiers** for the **series** entity.



BookBrainz

Search for...

Revisions Collections Statistics Help Add akashgp09

What else do you know about the Series?

Annotation

Type

Author Series

Work Series

Edition Series

Edition Group Series

Annotation (optional)

Annotations allow you to enter freeform data that does not otherwise fit in the above form. Do not submit any copyrighted text here. The contents will be made available to the public under [open licenses](#).

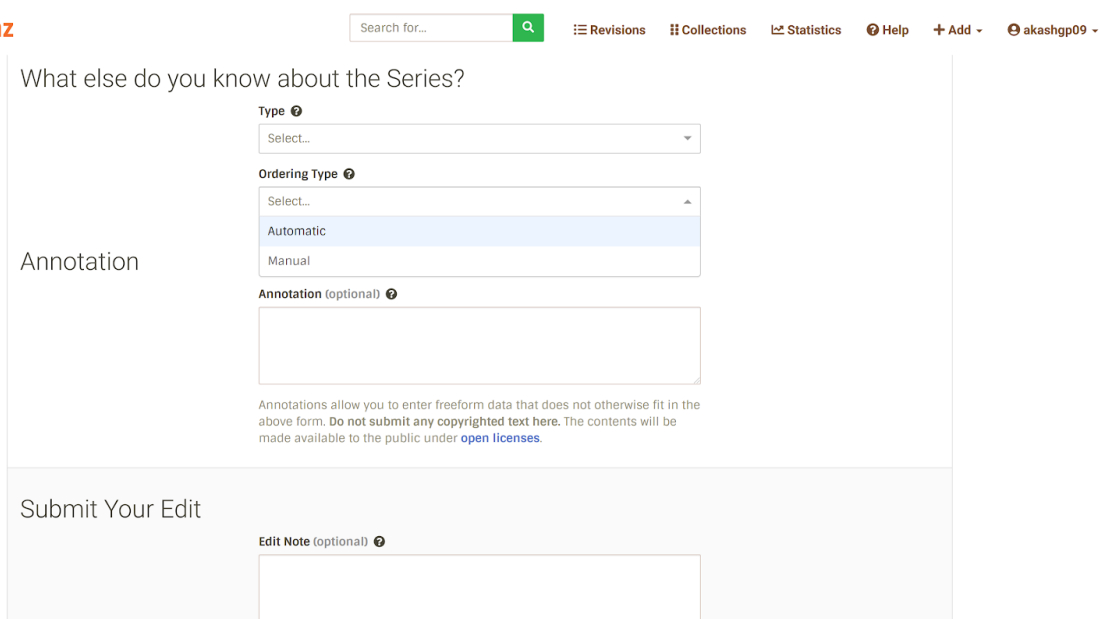
Submit Your Edit

Edit Note (optional)

The above **Type** input will allow users to **choose the entity type** for the series entity **from a list of options**.

(**Note:** For now we have just considered only **4** entity types : **Author Series**, **Work Series**, **Edition Series** and **Edition Group Series**. According to our use case we can **remodel** it accordingly)

The **Ordering Type** input will have two options: **Automatic** and **Manual**.

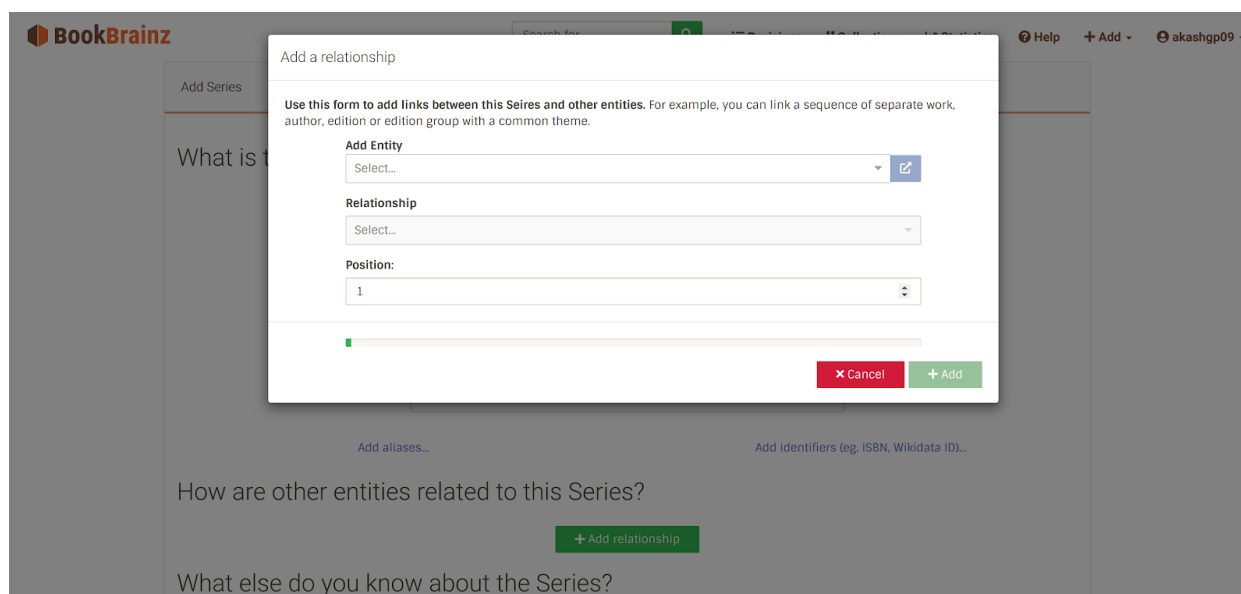


The screenshot shows the BookBrainz 'Add Series' form. The 'Annotation' section is highlighted, containing the following fields:

- Type**: A dropdown menu with 'Select...' as the current selection.
- Ordering Type**: A dropdown menu with 'Automatic' and 'Manual' as options. 'Automatic' is currently selected.
- Annotation (optional)**: A large text area for freeform data.

Below the annotation section is the 'Submit Your Edit' section, which includes an 'Edit Note (optional)' text area.

The **Add Relationship Modal** will now have an extra input field to assign a **position** to the **entity in the series**.



The screenshot shows the 'Add Relationship' modal form. It contains the following fields:

- Add Entity**: A dropdown menu with 'Select...' as the current selection.
- Relationship**: A dropdown menu with 'Select...' as the current selection.
- Position**: A dropdown menu with '1' as the current selection.

At the bottom of the modal are two buttons: 'Cancel' (red) and 'Add' (green).

How are other entities related to this Series?

New Series contains [Blood Work](#) Position:

New Series contains [Working Class Boy](#) Position:

New Series contains [Wonder, to Me](#) Position:

+ Add relationship

Undo last action

Edit

Remove

Edit

Remove

Edit

Remove

Manual Ordering of Entities :

This will provide users the ability to **position** the individual entities and display them in the order they want by assigning a **number** to each entity **indicating their position** in the series.

Example of a Work Series Entity Ordered manually :

 BookBrainz

Search for...



Revisions

Collections

Statistics

Help

+ Add

akashgp09



Series Entity (Name of the series)

Series Entity UI (alias name of the series)

Sort Name
Entity, Series

Type
Work Series

Ordering Type
Automatic

Annotation

This is a Series ProtoType

[Show more...](#)

Work Series

Order	Name	Languages	Type
1	The Horror at Red Hook	English	Short Story
2	The Call of Cthulhu	English	Short Story
3	The Whisperer in Darkness	English	Novella
4	At the Mountains of Madness	English	Novel

+ Edit

A column labelled `Order` indicates the position of the individual entities displayed.

Automatic Ordering of Entities :

When a user selects the **ordering type** as **automatic**, the individual entity will be displayed in the order they were added in the Series. Moreover there will be **no `Order` Column** in the series entity table.

Example of a Work Series Entity Ordered Automatically :

The screenshot shows the BookBrainz interface for a 'Series Entity'. The top navigation bar includes 'BookBrainz', a search bar, and links for 'Revisions', 'Collections', 'Statistics', 'Help', 'Add', and a user profile 'akashgp09'. The main content area is titled 'Series Entity (Name of the series)' and includes a subtitle 'Series Entity UI (alias name of the series)'. Below this, a table displays the series configuration:

Sort Name	Type	Ordering Type
Entity, Series	Work Series	Automatic

Below the configuration table, there is an 'Annotation' section with the text 'This is a Series Prototype' and a 'Show more...' link. The 'Work Series' section contains a table of series entries:

Name	Languages	Type
The Horror at Red Hook	English	Short Story
The Call of Cthulhu	English	Short Story
The Whisperer in Darkness	English	Novella
At the Mountains of Madness	English	Novel

At the bottom of the 'Work Series' section, there is a '+ Edit' button.

The Series Entity Shown above is an example of type **Work Series**. Depending on the **type of series**, The Series entity will render the respective **entity-table**.

For Example : Series Entity of Type Work will render **work-table** component and Series Entity of Type Edition will render **edition-table** component.

Note: we can add a new option **alphabetical sorting** to **ordering type**.

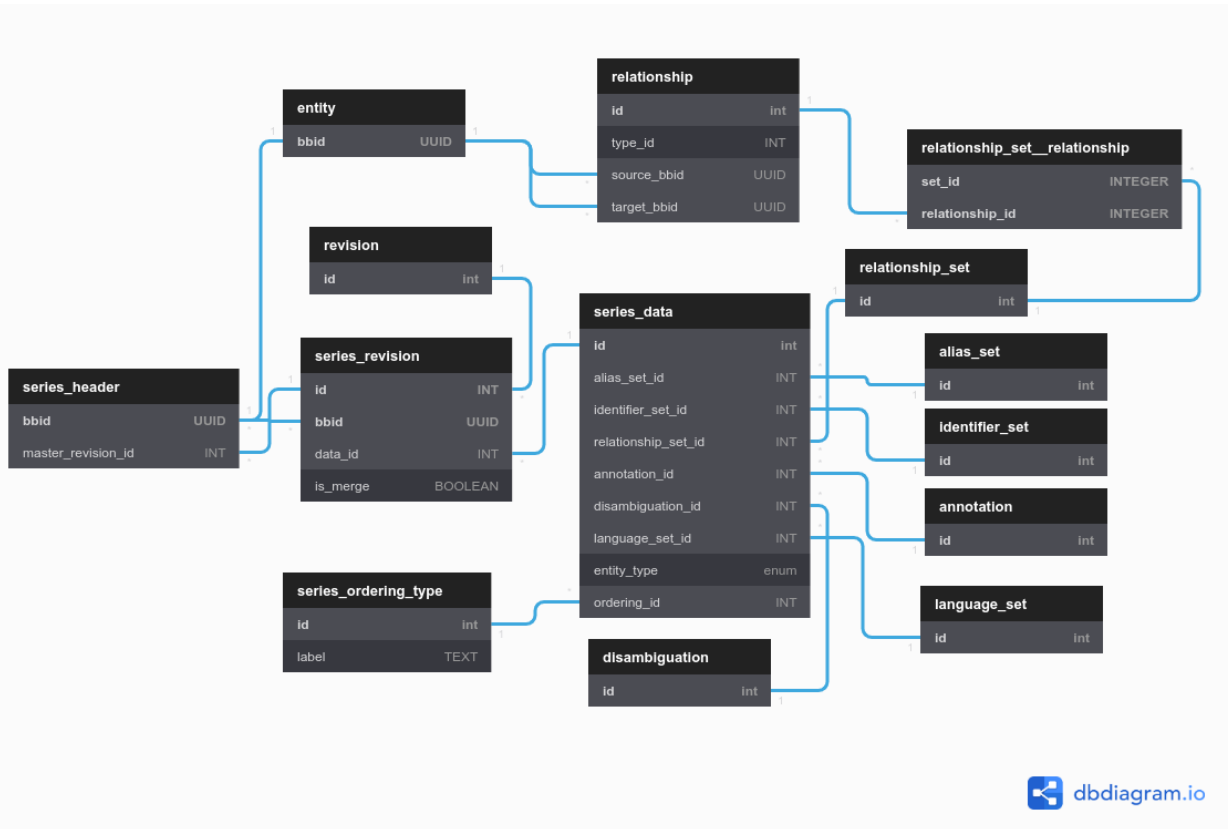
This option will allow us to sort the **entities** in the **series alphabetically** according to the entity name(**defaultAlias.name**)

DATABASE CHANGES

Few new **tables** will be added in the existing **database** :

❖ **series_data**

- ❖ **series_header**
- ❖ **series_revision**
- ❖ **series_ordering_type**



- ❖ **Series_ordering_type**: this table will contain the **ordering type**, which determines whether the series is ordered **automatically** or **manually**. The **ordering_type** column in **series_data** table is responsible for restricting the **ordering type** of a Series Entity.
- ❖ The other three tables i.e **series_data**, **series_revision** and **series_header** for **series** entity will be similar to **edition_data/edition_group_data**, **edition_revision/edition_group_revision** and **edition_header/edition_group_header** tables of **edition** and **edition_group** entities respectively.


```
ALTER TYPE bookbrainz.entity_type ADD VALUE 'Series';
```

```
CREATE TABLE bookbrainz.series_ordering_type (  
    id SERIAL PRIMARY KEY,  
    label TEXT NOT NULL UNIQUE CHECK (label <> '')  
);
```

```
CREATE TABLE bookbrainz.series_data (  
    id SERIAL PRIMARY KEY,  
    alias_set_id INT NOT NULL REFERENCES alias_set(id),  
    identifier_set_id INT REFERENCES bookbrainz.identifier_set(id),  
    relationship_set_id INT REFERENCES bookbrainz.relationship_set(id),  
    annotation_id INT REFERENCES bookbrainz.annotation(id),  
    disambiguation_id INT REFERENCES bookbrainz.disambiguation(id),  
    language_set_id INT REFERENCES bookbrainz.language_set(id),  
    entity_type bookbrainz.entity_type NOT NULL,  
    ordering_id INT REFERENCES bookbrainz.series_ordering_type(id)  
);
```

```
CREATE TABLE bookbrainz.series_header (  
    bbid UUID PRIMARY KEY,  
    master_revision_id INT  
);
```

```
CREATE TABLE bookbrainz.series_revision (  
    id SERIAL PRIMARY KEY,  
    bbid UUID NOT NULL REFERENCES series_header(bbid),  
    master_revision_id INT NOT NULL REFERENCES series_header(master_revision_id),  
    revision TEXT NOT NULL,  
    entity_type bookbrainz.entity_type NOT NULL,  
    ordering_id INT NOT NULL REFERENCES series_ordering_type(id)  
);
```

```

    id INT REFERENCES bookbrainz.revision (id),

    bbid UUID REFERENCES bookbrainz.series_header (bbid),

    data_id INT REFERENCES bookbrainz.series_data(id),

    is_merge BOOLEAN NOT NULL DEFAULT FALSE,

    PRIMARY KEY ( id, bbid )

);

```

```

ALTER TABLE bookbrainz.series_header ADD FOREIGN KEY (bbid) REFERENCES
bookbrainz.entity (bbid);

```

```

ALTER TABLE bookbrainz.series_header ADD FOREIGN KEY
(master_revision_id, bbid) REFERENCES bookbrainz.series_revision (id,
bbid);

```

- One Additional Change to the existing database will be adding a position column to the relationship table.

```

ALTER TABLE bookbrainz.relationship ADD COLUMN position INT;

```

/* Sample view for series */

```

CREATE VIEW bookbrainz.series AS

SELECT

e.bbid, sd.id AS data_id, sr.id AS revision_id, (sr.id =
s.master_revision_id) AS master, sd.annotation_id, sd.disambiguation_id,
als.default_alias_id, sd.entity_type, sd.ordering_id, sd.alias_set_id,
sd.language_set_id, sd.identifier_set_id,
sd.relationship_set_id, e.type

```

```
FROM bookbrainz.series_revision sr
LEFT JOIN bookbrainz.entity e ON e.bbid = sr.bbid
LEFT JOIN bookbrainz.series_header s ON s.bbid = e.bbid
LEFT JOIN bookbrainz.series_data sd ON sr.data_id = sd.id
LEFT JOIN bookbrainz.alias_set als ON sd.alias_set_id = als.id
WHERE e.type = 'Series';
```

Note: Instead of the `position` attribute on series, we can have a more **generic relationship attributes system** that could be used for other cases. For example to describe that when a **relationship started and ended** at a **certain date**. we can have the changes to the above schema by **adding tables** for extra relationship attributes (`relationship_order`, `relationship_date`, etc.)

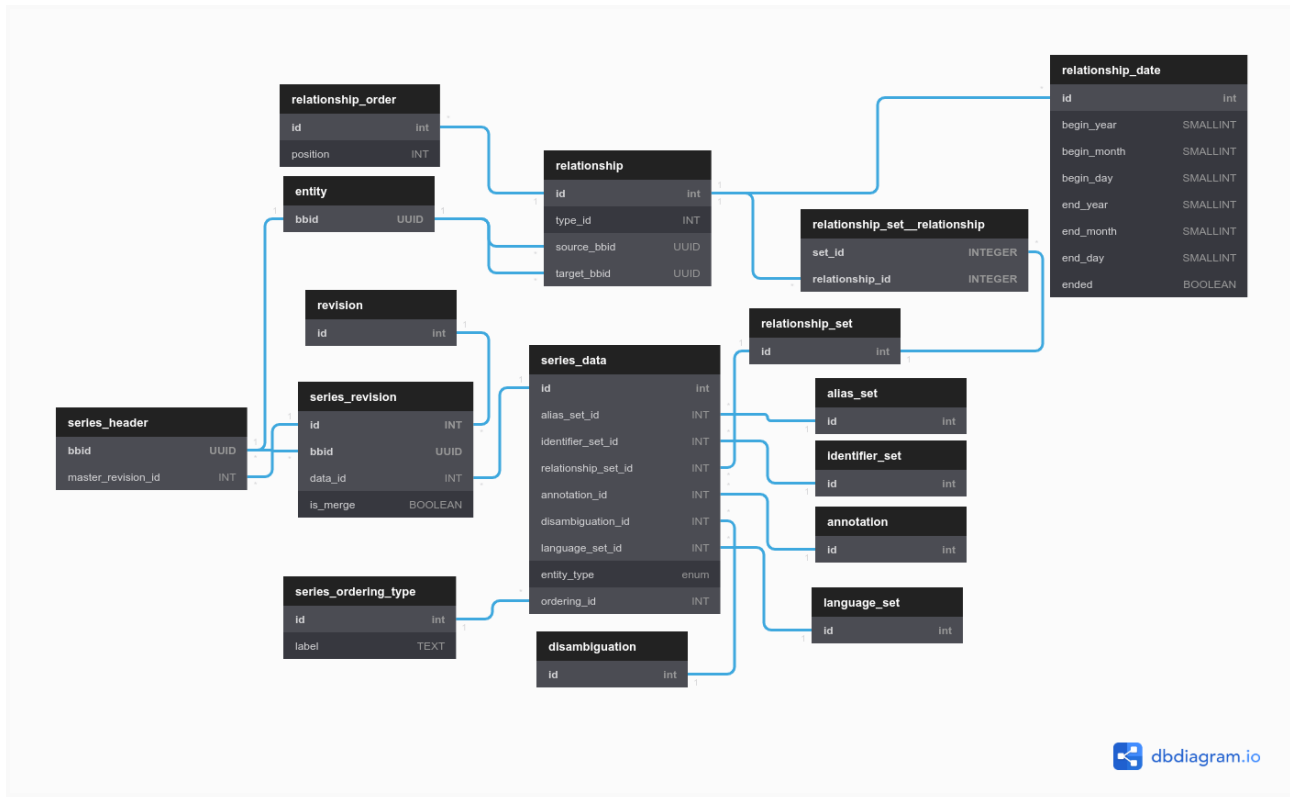
```
CREATE TABLE bookbrainz.relationship_order (
    id SERIAL PRIMARY KEY,
    position INT
);
```

```
CREATE TABLE bookbrainz.relationship_date (
    id SERIAL PRIMARY KEY,
    begin_year SMALLINT,
    begin_month SMALLINT,
    begin_day SMALLINT,
    end_year SMALLINT,
```

```
end_month SMALLINT,  
end_day SMALLINT,  
ended BOOLEAN NOT NULL DEFAULT FALSE,  
CHECK (  
    (  
        (  
            end_year IS NOT NULL OR  
            end_month IS NOT NULL OR  
            end_day IS NOT NULL  
        ) AND ended = TRUE  
    ) OR (  
        (  
            end_year IS NULL AND  
            end_month IS NULL AND  
            end_day IS NULL  
        )  
    )  
);
```

```
ALTER TABLE bookbrainz.relationship_order ADD FOREIGN KEY (id) REFERENCES  
bookbrainz.relationship (id);
```

```
ALTER TABLE bookbrainz.relationship_date ADD FOREIGN KEY (id) REFERENCES  
bookbrainz.relationship (id);
```




And in the **frontend** we will have **date inputs** which will describe when a **relationship started** and **ended at a certain date**.

Add a relationship

Use this form to add links between this Series and other entities. For example, you can link a sequence of separate work, author, edition or a edition group with a common theme.

Add Entity

Select... 


Relationship

Select...


Position:

1


Start Date :



YYYY - MM - DD 

End Date:

YYYY - MM - DD 

☐ This relationship has ended.



This will involve some more complex setup with more schema changes(This might require a bit more detail discussion with mentor in finalizing the database schema)

ORM BookBrainz-Data Changes

Few new models will be added in BookBrainz-data

series, series-data, series-revision and series-header

→ series-data :

```
import { camelToSnake, snakeToCamel } from "../../util";
```

```

export default function seriesData(bookshelf) {
  const SeriesData = bookshelf.Model.extend({
    aliasSet() {
      return this.belongsTo("AliasSet", "alias_set_id");
    },
    annotation() {
      return this.belongsTo("Annotation", "annotation_id");
    },
    disambiguation() {
      return this.belongsTo("Disambiguation", "disambiguation_id");
    },
    seriesType() {
      return this.belongsTo("SeriesType", "entity_type");
    },
    seriesOrderingType() {
      return this.belongsTo("SeriesOrderingType", "ordering_id");
    },
    format: camelToSnake,
    idAttribute: "id",
    identifierSet() {
      return this.belongsTo("IdentifierSet", "identifier_set_id");
    },
    languageSet() {
      return this.belongsTo("LanguageSet", "language_set_id");
    },
    parse: snakeToCamel,
    relationshipSet() {
      return this.belongsTo("RelationshipSet", "relationship_set_id");
    },
    tableName: "bookbrainz.series_data",
  });

  return bookshelf.model("SeriesData", SeriesData);
}

```

→ [series](#)

```

export default function series(bookshelf) {

  const SeriesData = bookshelf.model("SeriesData");

  const Series = SeriesData.extend({

```

```

defaultAlias() {
    return this.belongsTo("Alias", "default_alias_id");
},
idAttribute: "bbid",
initialize() {
    this.on("fetching", (model, col, options) => {
        // If no revision is specified, fetch the master revision
        if (!model.get("revisionId")) {
            options.query.where({ master: true });
        }
    });
    this.on("updating", (model, attrs, options) => {
        // Always update the master revision.
        options.query.where({ master: true });
    });
},
revision() {
    return this.belongsTo("SeriesRevision", "revision_id");
},
tableName: "bookbrainz.series",
});
return bookshelf.model("Series", Series);
}

```

→ series-revision:

```

import { camelToSnake, diffRevisions, snakeToCamel } from "../util";
export default function seriesRevision(bookshelf) {

```



```

const SeriesRevision = bookshelf.Model.extend({
  data() {
    return this.belongsTo("SeriesData", "data_id");
  },
  diff(other) {
    return diffRevisions(this, other, [
      "annotation",
      "disambiguation",
      "aliasSet.aliases.language",
      "aliasSet.defaultAlias",
      "relationshipSet.relationships",
      "relationshipSet.relationships.type",
      "seriesType",
      "seriesOrderingType",
      "languageSet.languages",
      "identifierSet.identifiers.type",
    ]);
  },
  entity() {
    return this.belongsTo("SeriesHeader", "bbid");
  },
  format: camelToSnake,
  idAttribute: "id",
  parent() {
    return this.related("revision")
      .fetch()
      .then((revision) =>
        revision.related("parents").fetch({ require: false })
      )
      .then((parents) => parents.map((parent) =>
parent.get("id")))
      .then((parentIds) => {
        if (parentIds.length === 0) {
          return null;
        }
        return new SeriesRevision()
          .where("bbid", this.get("bbid"))
          .query("whereIn", "id", parentIds)
          .orderBy("id", "DESC")
          .fetch();
      });
  },
  parse: snakeToCamel,

```

```

    revision() {
        return this.belongsTo("Revision", "id");
    },
    tableName: "bookbrainz.series_revision",
  });
  return bookshelf.model("SeriesRevision", SeriesRevision);
}

```

→ series-header

```

import { camelToSnake, snakeToCamel } from "../util";
export default function seriesHeader(bookshelf) {
  const SeriesHeader = bookshelf.Model.extend({
    format: camelToSnake,
    idAttribute: "bbid",
    parse: snakeToCamel,
    tableName: "bookbrainz.series_header",
  });
  return bookshelf.model("SeriesHeader", SeriesHeader);
}

```

Note: Some more **models** for other **tables** may be created as per requirement.

Backend Server Changes

I will add two new middlewares in src/server/helpers/middlewares :

- ★ loadSeriesTypes
- ★ loadSeriesOrderingTypes

```
export const loadSeriesTypes= makeLoader('SeriesType','seriesTypes');
```

```
export const loadSeriesOrderingTypes=
makeLoader('SeriesOrderingType','seriesOrderingTypes');
```

Our **series entity** will have **similar routes** like the **other entities** we have:

We will create a new file for our **series entity routes** which will have the following routes:

In **src/server/routes/series.js**:

```
function transformNewForm(data) {
  const aliases = entityRoutes.constructAliases(
    data.aliasEditor,
    data.nameSection
  );

  const identifiers = entityRoutes.constructIdentifiers(
    data.identifierEditor
  );

  const relationships = entityRoutes.constructRelationships(
    data.relationshipSection
  );

  return {
    aliases,
    annotation: data.annotationSection.content,
    disambiguation: data.nameSection.disambiguation,
    identifiers,
    note: data.submissionSection.note,
    relationships,
    typeId: data.seriesSection.type,
  };
}

const createOrEditHandler = makeEntityCreateOrEditHandler(
  "series",
  transformNewForm,
  "typeId"
);

const mergeHandler = makeEntityCreateOrEditHandler(
  "series",
  transformNewForm,
  "typeId",
  true
```

```
);

const router = express.Router();

// Creation
router.get(
  "/create",
  auth.isAuthenticated,
  middleware.loadIdentifierTypes,
  middleware.loadLanguages,
  middleware.loadSeriesTypes,
  middleware.loadSeriesOrderingTypes.middleware.loadRelationshipTypes,
  (req, res) => {
    const { markup, props } = entityEditorMarkup(
      generateEntityProps("series", req, res, {})
    );

    return res.send(
      target({
        markup,
        props: escapeProps(props),
        script: "/js/entity-editor.js",
        title: props.heading,
      })
    );
  }
);

router.post(
  "/create/handler",
  auth.isAuthenticatedForHandler,
  createOrEditHandler
);

router.param("bbid", middleware.redirectedBbid);

router.param(
  "bbid",
  middleware.makeEntityLoader(
    "Series",
    [
      "seriesType",
      "series.defaultAlias",
      "series.disambiguation",
      "series.identifierSet.identifiers.type",
    ]
  )
);
```

```

        "seriesOrderingType",
    ],
    "Series not found"
)
);

function _setSeriesTitle(res) {
    res.locals.title = utils.createEntityPageTitle(
        res.locals.entity,
        "Series",
        utils.template`Series "${name}"`
    );
}

router.get("/:bbid", middleware.loadEntityRelationships, (req, res) => {
    _setSeriesTitle(res);
    res.locals.entity.series.sort(entityRoutes.compareEntitiesByDate);
    entityRoutes.displayEntity(req, res);
});

router.get("/:bbid/delete", auth.isAuthenticated, (req, res) => {
    _setSeriesTitle(res);
    entityRoutes.displayDeleteEntity(req, res);
});

router.post(
    "/:bbid/delete/handler",
    auth.isAuthenticatedForHandler,
    (req, res) => {
        const { orm } = req.app.locals;
        const { SeriesHeader, SeriesRevision } = orm;
        return entityRoutes.handleDelete(
            orm,
            req,
            res,
            SeriesHeader,
            SeriesRevision
        );
    }
);

router.get("/:bbid/revisions", (req, res, next) => {
    const { SeriesRevision } = req.app.locals.orm;
    _setSeriesTitle(res);
    entityRoutes.displayRevisions(req, res, next, SeriesRevision);
});

```

```

});

router.get("/:bbid/revisions/revisions", (req, res, next) => {
  const { SeriesRevision } = req.app.locals.orm;

  _setSeriesTitle(res);
  entityRoutes.updateDisplayedRevisions(req, res, next, SeriesRevision);
});

router.get(
  "/:bbid/edit",
  auth.isAuthenticated,
  middleware.loadIdentifierTypes,
  middleware.loadSeriesTypes,
  middleware.loadSeriesOrderingTypes,
  middleware.loadLanguages,
  middleware.loadEntityRelationships,
  middleware.loadRelationshipTypes,
  (req, res) => {
    const { markup, props } = entityEditorMarkup(
      generateEntityProps("seriesGroup", req, res, {},
seriesToFormState)
    );

    return res.send(
      target({
        markup,
        props: escapeProps(props),
        script: "/js/entity-editor.js",
        title: props.heading,
      })
    );
  }
);

router.post(
  "/:bbid/edit/handler",
  auth.isAuthenticatedForHandler,
  createOrEditHandler
);

router.post(
  "/:bbid/merge/handler",
  auth.isAuthenticatedForHandler,
  mergeHandler
);

```

```
);
export default router;
```

We will add a new function **sortSeriesEntity** in **src/client/helpers/entity.tsx**

```
export function sortSeriesEntity(
  entity,
  entitiesContainedBySeries
) {
  if (entity.relationships[0].position) {
    entitiesContainedBySeries.sort(function(a, b) {
      return a.position - b.position;
    });
  }

  return entitiesContainedBySeries;
}
```

This function will check if the **relationship object** has **truthy position value**. Having a **position** value indicates the series entity is ordered **manually** and having a **position** value as **null indicates** the series entity is ordered **automatically** and we don't require sorting operation to perform before displaying it.

Suppose we have a relationships array as :


relationships: (3) [{ ... }, { ... }, { ... }]

```
[
  id: 289,
  typeId: 10,
  sourceBbid: "...",
  targetBbid: "...",
  position: 3,
  target: {
    ...
  },
  id: 290,
  typeId: 10,
  sourceBbid: "...",
  targetBbid: "...",
```

```
position: 1,  
target: {  
  ...  
},  
id: 291,  
typeId: 10,  
sourceBbid: "...",  
targetBbid: "...",  
position: 2,  
target: {  
  ...  
}  
]  
]
```

The **sort() method** will **sort** the above array of objects since we got a truthy position value. The sorted result will be :

```
[  
  id: 290,  
  typeId: 10,  
  sourceBbid: "...",  
  targetBbid: "...",  
  position: 1,  
  target: {  
    ...  
  },  
  id: 291,  
  typeId: 10,  
  sourceBbid: "...",  
  targetBbid: "...",  
  position: 2,  
  target: {  
    ...  
  },  
  id: 289,  
  typeId: 10,  
  sourceBbid: "...",  
  targetBbid: "...",  
  position: 3,  
  target: {  
    ...  
  }  
]  
]
```

Note: According to our use case if we add the option **alphabetical sorting** to **ordering type**, then we will need to **expand** and **redefine** the above **sortSeriesEntity function** so that it can also sort the entities in the series **alphabetically** by their **name**.

PRE-GSoC

I believe, to accomplish the job of implementing a **series entity**, one should have a good understanding with the implementation of other entities. Almost more than 70% of the implementation of the series entity would be just like other existing entities of boobrainz with some slight changes.

My First priority before GsoC starts would be getting familiar with other entity implementations.

During this phase I will invest my time **understanding the codebase more intensely** . And Also in the meantime I will work on the existing tickets to make BookBrainz more excellent.

Community Bonding Period

Fix Existing **bugs**, help to merge pending **PRs**, and **close issues**.

Discuss with **mentor about the roadmap**, Finalizing **Database Schema** and other plans of action.

FUTURE WORK

I have learned a lot and picked up a majority of my skills by contributing to Open Source Projects over the past and even after the **Google Summer of Code**, I plan on continuing my contributions to **BookBrainz**, by working on open issues.

TIMELINE

Here is a more detailed **week-by-week** timeline of the **10 weeks** GSoC coding period to keep me on track

Week 1 and 2 :

I will begin with **setting up database** (Creating new table) and Implementing the corresponding **ORM models** and functions with **tests**.

Week 3,4 and 5 :

I will begin with creating the **web server routes** and add the new entity saving saving mechanism.

Week 6-7:

Writing corresponding **tests** and cleaning up the code. Take reviews from mentor and make relevant changes. **Unit Tests** will be written using mocha and chai assertion library as already used for other entities in BookBrainz.

Week 8 :

I Will begin Creating front-end entity **create/edit/merge components** (based on existing components for other entities)

Week 9 :

Catch up if the any frontend component/page to be created is lagging behind.

Update the **elasticsearch indexing** to make the series entity appear in the search results.(This might require a bit of help from mentor side)

Week 10 :

Clean up the code and write documentation. Discuss with the mentor relevant changes before the final submission of the work.

STRETCH GOAL

- ❖ The addition of **series endpoints** in the existing **API**.
- ❖ Add **achievements** for creating series.

Detailed information about yourself

My name is **Akash Gupta**(I go by [@akashg09](#) online), I am currently in the **2nd year** of my Bachelor in Technology Degree from [Kalinga Institute of Industrial Technology](#) in **Information Technology**. I've always been fascinated by computers and the logic that made them tick. This was the major factor that resulted in me picking an interest in programming and deciding to follow the software development career path. I love working on web apps, as well as the related tools and technologies which make web apps possible and I have spent many of my nights up hacking on such projects.

I am a member of [Google Developer Students Club](#) at [KIIT](#). We are a bunch of passionate development and design enthusiasts trying to foster software development culture in the campus. While working on our projects we adhere to very strict timelines and make sure to follow the best practices to create impacts of the highest significance.

My Contributions in BookBrainz:

I started contributing to **BookBrainz** from the **2nd week** of March 2021. Till now (12 April 2021) I have made **16 PRs** in **BookBrainz**

- ❖ **My PRs:** [Check Out](#)
- ❖ **My Commits:** [Check Out](#)

Tell us about the computer(s) you have available for working on your SoC project!

I own a **HP Probook X360 440G1**, **Core i5 8th Gen Processor** with **16 GB RAM** and **512 GB SSD** running on **Ubuntu 20.04**.

When did you first start programming?

I started writing code in **C++** in my 8th standard of school. I picked up some **Python** at secondary school and **Javascript**, **C programming** in my freshman year.

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

The choice of music mostly depends on the mood. My all time favorite music album is [Starboy](#) by The Weeknd aka Abel Makkonen Tesfaye.

If applying for a BookBrainz project: what type of books do you read?

I love to read. Some of my favourite books are Sherlock, Game of Thrones And Sacred Games.

What aspects of the project you're applying for (e.g., MusicBrainz, AcousticBrainz, etc.) interest you the most?

As I mentioned, I love reading. Even when I learn something new, I always prefer **reading** the documentation instead of watching some video tutorials.

Not just reading but also I love writing. You can check out some of my [blogs](#) on Medium.

Have you contributed to other Open Source projects? If so, which projects and can we see some of your code?

Yes, I have been involved in **open source** from the **past 1 year**.

Elastic -

Contributing to the development of **Elastic** Since **January 2021**, [My Contributions](#) include **fixing bugs**, **adding features** and **writing tests**.

I have made **20 PRs** till now in Elastic with alone **17 PRs** in [The Elastic UI Framework](#)

I have worked with **Typescript, Jest , React, a11y Testing**

❖ **My PRs :** [Check Out](#)

DSC-Coding Portal -

A **coding portal** where people can practice their coding **skills**. I have helped setting up some big task like:

- ❖ [JWT Authentication \(Login/Sign-up\)](#)
- ❖ [Google Oauth](#)
- ❖ Running Code against Custom TestCases [#\[1\]](#) [#\[2\]](#)
- ❖ [Integrated Compiler that supports code execution for C/C++/Python and Java.](#)
- ❖ [Integrated CodeMirror Editor](#)

My Commits: [Check Out](#)

DSC-KillT Website -

❖ **My PRs:** [Check Out](#)

DSC-ASJX -

Developed the **participant web portal** for ASJX - an online Hackathon. Implemented Devfolio Integrated system for **registrations, logging, submissions and judging**.

❖ **My PRs:** [Check Out](#)

How much time do you have available, and how would you plan to use it?

I would be able to **devote** approx **50 hours** every week to **GSoC**. My classes will probably start in the last 15 days. Workload will be less and I will be able to give **5-6 hours** a day easily.

Do you plan to have a job or study during the summer in conjunction with Summer of Code?

No, I will be **devoting all my time** to **GSoC**.

WHY ME ?

I'm a passionate **open-source** contributor, I believe that I am well suited for this project, because I am already working on the project, and I already know very well about the project vision and roadmap. Apart from developing I pay equal attention to **testing and documentation** which are truly the most important parts of a successful project.

Following are some points that I would like to highlight -

- **Consistency** : I am very consistent with my work, My Contributions are regular and consistent in open source projects.

207 contributions in 2021

Contribution settings ▾

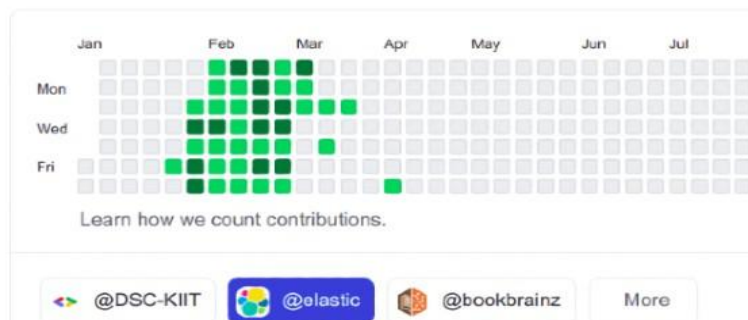
2021

2020

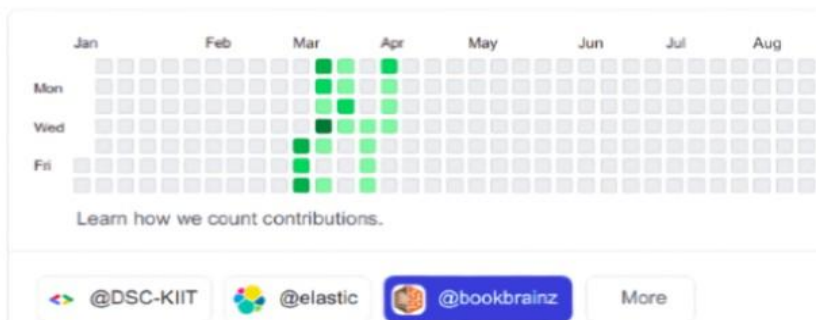
2019



59 contributions in 2021 in elastic



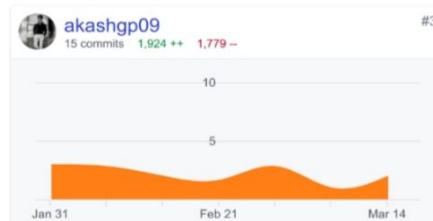
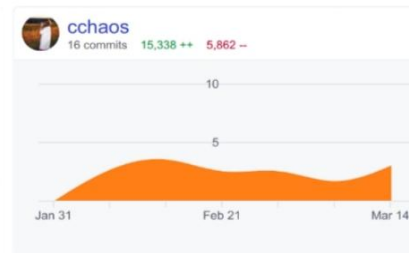
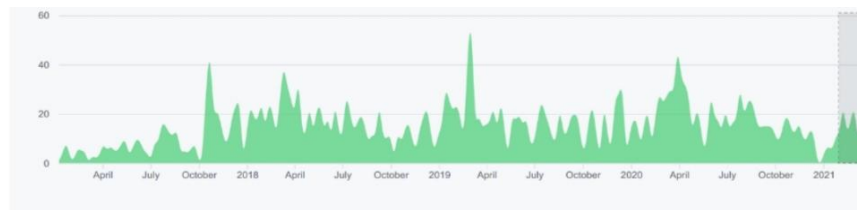
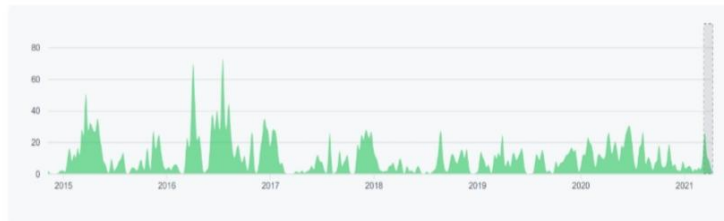
53 contributions in 2021 in BookBrainz



→ **Active Contributions:** No Matter what the project is either **Elastic** or **BookBrainz**, My Contributions are the top contributions since I started contributing. (after maintainers)

Mar 11, 2021 – Apr 12, 2021

Contributions to master, excluding merge commits



LAST BUT NOT LEAST

I believe that I will finish the job at the end of happiness. **Let's enjoy it.**