GitMate

Elina Kapetanaki, 8210050

My First OSS Contribution

My journey

https://github.com/ElinaKapetanaki/mindsdb/tree/zotero-handler

...I have chosen...
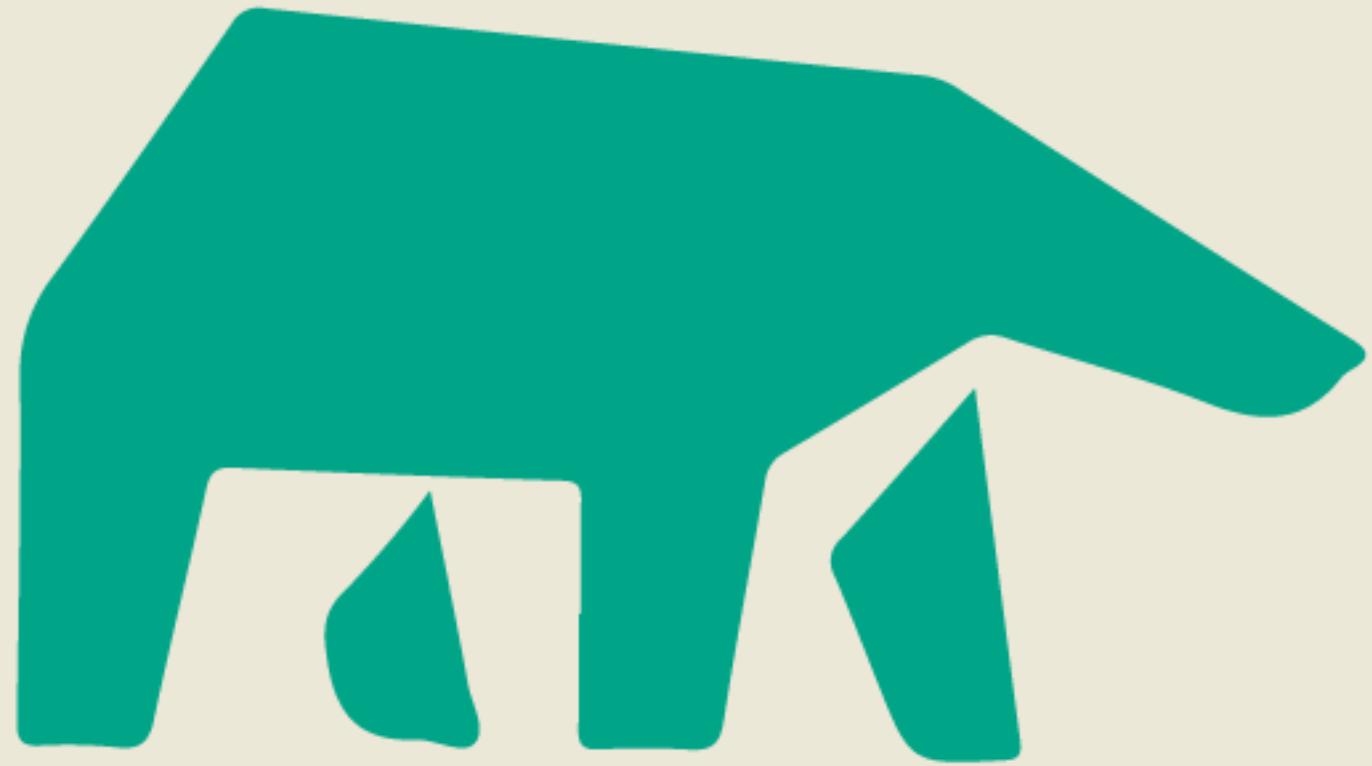
What is MindsDB?

Use AI Models in your Data

Connects to applications, databases, files

application examples:

DB examples:
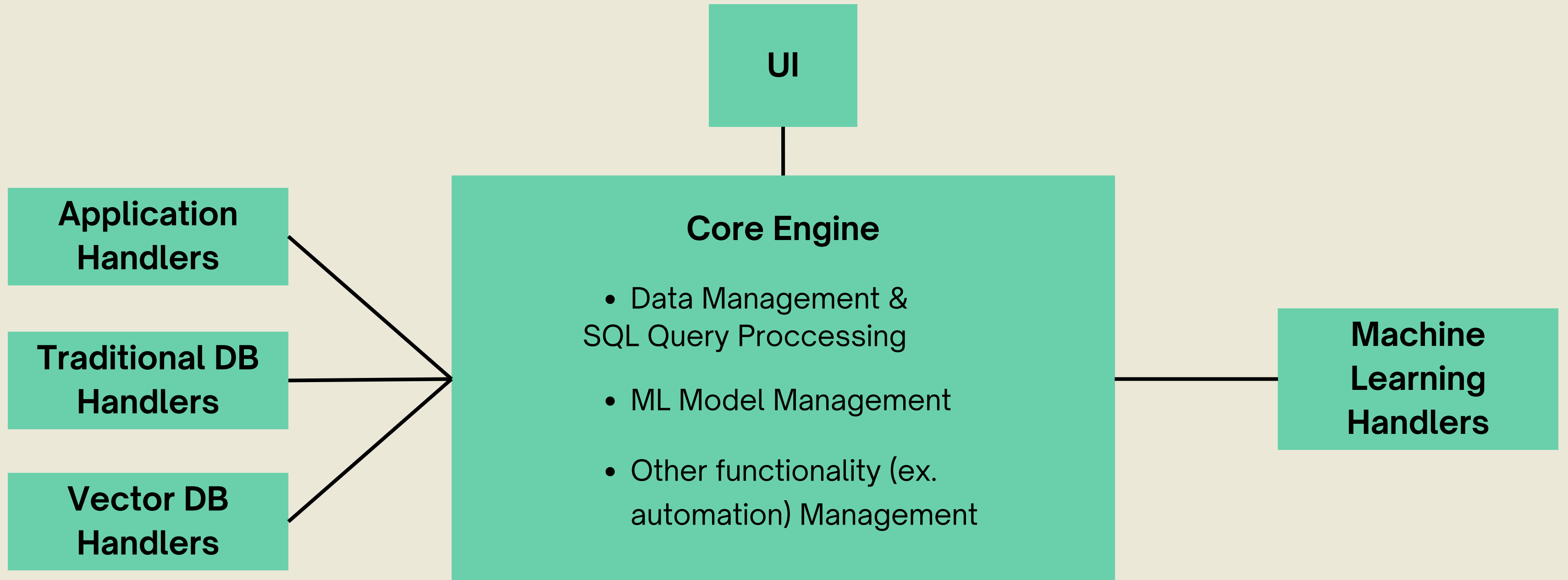
Uses AI on that data

Predictions

Chat Bots

Text Summarization

Sentiment Analysis

Classification

and many more...

What is MindsDB?

My Contribution

```
CREATE DATABASE mindsdb_zotero
WITH ENGINE = 'zotero',
PARAMETERS = {
  "library_id"                 ,
  "library_type": "user",
  "api_key":                        

SELECT * FROM mindsdb_zotero.annotations

SELECT * FROM mindsdb_zotero.annotations WHERE item_id =

SELECT * FROM mindsdb_zotero.annotations WHERE parent_item_id =
```

annotationPageLabel	annotationText
171	That's my idea of sensitive; I couldn't ask a writer to give me two more wonderful exam ration than gratitude. I also wonder: how many other examples of bat sensitivity did sh e able to choose those two? Always start with too much material. Then give your reader
169	Roueché s secret is as old as the art of storytelling. We are in on a chase and a myste e medical history of poisoning, or talk about standard texts on toxicology. He gives us lue one. Another way to help your readers understand unfamiliar facts is to relate them h. Reduce the abstract principle to an image they can visualize.
168	That was the appeal of the articles called "Annals of Medicine" that Berton Roueché wro er. They are detective stories, almost always involving a victim—some ordinary person s d a gumshoe obsessed with finding the villain.
168	The example of the linseed oil is just piquant enough to make us wonder what "memory" r
168	One problem has been to decide what memory is and what things have it. Linseed oil, for nce exposed to light, even if only briefly, it will change consistency and speed the se "remember" its first encounter with the light.
167	One human element is yourself. Use your own experience to connect the reader to some me e. In the following article on memory, notice how the writer, Will Bradbury, gives us a ab a complex subject:
167	Again, this means looking for the human element

Create API handler connecting MindsDB to Zotero (annotations)

- from a library

- from a book/paper

- a specific annotation
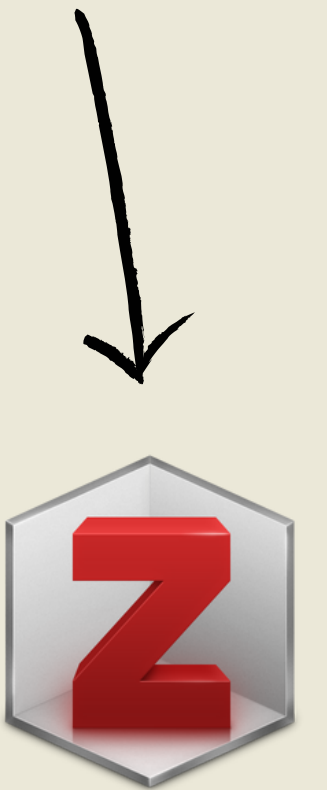
Zotero: App to manage your research.

My Contribution


```
 6
 7
 8   CREATE DATABASE mindsdb_zotero_example
 9   WITH ENGINE = 'zotero',
10   PARAMETERS = {
11     "library_id": ████████,
12     "library_type": "user",
13     "api_key": ████████████ }
14
15
16
17
18
19
20
21
22
23
```

Message
1   Query successfully completed

```
31
32
33   SELECT * FROM mindsdb_zotero_example.annotations WHERE parent_item_id = ████████
34
35
36
37
```

Export ⌄

annotationComment	annotationPageLabel	annotationText
	48	one of the earliest offshoots of the original Something Awful thread was the
	48	I found it interesting to watch as sort of an accelerated version of an urban of the urban legend in that it is on the Internet, and this both helps and ha n my personal opinion, an urban legend requires an audience ignorant of the o third and forth [sic] hand (or more) accounts to perpetuate the myth. On the s evidenced by the very public Somethingawful thread. But what is funny is th memes are finicky things and by making something at the right place and time d." (Tomberry 2010)
	44	The term fictitious legend best describes the case of Dracula. Fictitious, no

1 to 50 of 60   Page 1 of 2

```
26
27   SELECT * FROM mindsdb_zotero_example.annotations WHERE item_id = ████████
28
29
30
```

annotationComment	annotationPageLabel	annotationText
	53	because it generated a great deal of interes a the game were unaware of the complexity of

Keep photos of functionality in a repo linked to my PR

https://github.com/ElinaKapetanaki/mindsdb-test/blob/main/Zotero_QA.MD

Metrics

Python Code Lines
(including docstrings + tests)
450

README lines
55

Classes
2

Methods
10

Files Added
8

Quality

README

DocStrings

Logging & Exceptions

PEP8: 100%

Build your own Zotero AI agent

This is the implementation of the Zotero handler for MindsDB.

Zotero

Zotero is a free tool for organizing and managing research materials. It lets you store articles, bo them, take notes, and create collections for organization. You can also share your collections with

Implementation

This handler uses pyzotero , an API wrapper for Zotero as a simple library to facilitate the integra

The required arguments to establish a connection are,

- library_id :
  To find your library ID, as noted on pyzotero :
  - Your personal library ID is available here, in the section "Your userID for use in API calls"
  - For group libraries, the ID can be found by opening the group's page: https://www.zote the group settings link. The ID is the integer after /groups/
- library_type : "user" for personal account or "group" for a group library
- api_key :
  To find your api key, as noted on pyzotero : follow this link

Usage

In order to make use of this handler and connect to Zotero in MindsDB, the following syntax can

```
CREATE DATABASE mindsdb_zotero
WITH ENGINE = 'zotero',
PARAMETERS = {
  "library_id": "<your-library-id>"
```

```python
class AnnotationsTable(APITable):
    """Represents a table of annotations in Zo

    def select(self, query: ast.Select):
        """Select annotations based on the pro

        Parameters
        ----------
        query : ast.Select
            AST (Abstract Syntax Tree) represen

        Returns
        -------
        Response
            Response object containing the sel
        """

        if query.where is None:  # Handle case
```

```python
except Exception as e:
    logger.error(f"Error fetching item wit
    raise e
```

✓ ⚙ Test on Push / Run static code checks

Testing

Used API Mocking to unit test my code →

Independence of testing from external services

Test Cases
7

Coverage
64%

(direct API calling methods
were not tested)

	Stmts	Miss	Cover
__about__.py	9	0	100%
__init__.py	13	3	77%
zotero_handler.py	39	3	92%
zotero_tables.py	69	41	41%
	130	47	64%

```
AnnotationsTableTest::test_get_columns_returns_all_columns PASSED    [ 16%]
AnnotationsTableTest::test_select_returns_all_columns PASSED         [ 33%]
AnnotationsTableTest::test_select_with_conditions PASSED             [ 50%]
ZoteroHandlerTest::test_check_connection_failure PASSED              [ 66%]
ZoteroHandlerTest::test_check_connection_success PASSED              [ 83%]
ZoteroHandlerTest::test_connect PASSED                               [100%]

===== 6 passed in 2.66s =========================================
```

Collaboration with team

Advice and approval for my contribution idea

Minura 🐘 5:47 AM
To answer you question, to start off, I think it will be sufficient for you to build the API handler and connect to any data asset that you think might be useful and then we can open issues for the others and work on them slowly.
For instance, if you think it might be useful to connect notes, we can start with that and open issues for books, papers etc., and open issues for them, so that either you or any other contributor can take them up in the future.

Does this make sense?

And yes, please feel free to ask me any questions that you may have.

👍 1   😊⁺

Tuesday, March 26th ⌄

E **Elina Kapetanaki** 2:28 PM
Hello!! Yes that sounds great

👍 1   😊⁺

Help during troubleshooting

MinuraPunchihewa 3 days ago · edited ⌄   `Collaborator`
I believe the handler has become unusable due to this error. Let me know if this fixes your issue. Try running the `CREATE DATABASE` statement again with this fix.
😊

**ElinaKapetanaki** 3 days ago   `Author`
Great!! The `CREATE DATABASE` statement worked now! I will work on fixing a few things more and will update this pr.
😊

ElinaKapetanaki 3 days ago   `Author`
The queries work!! Made quite a few changes to my code. I want to make it a bit cleaner and will update the pr with also some pictures of the functionality.
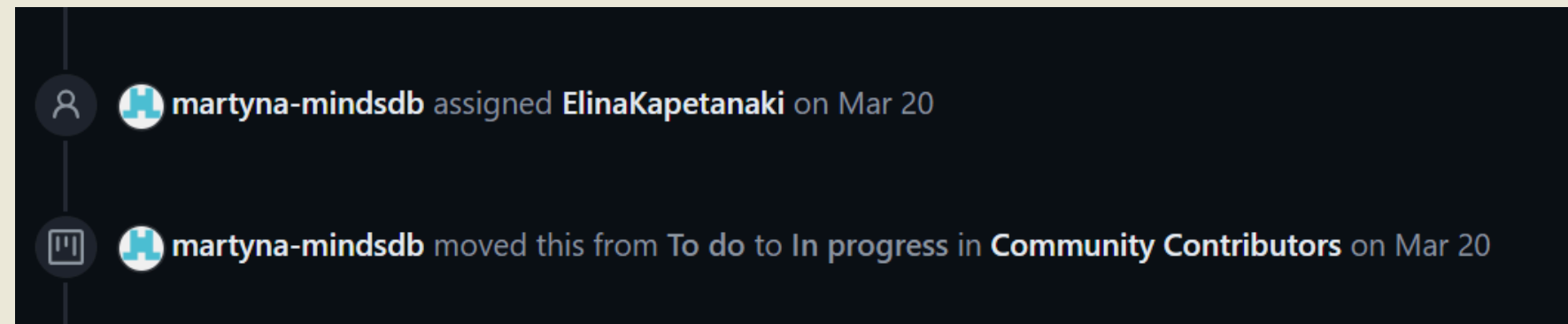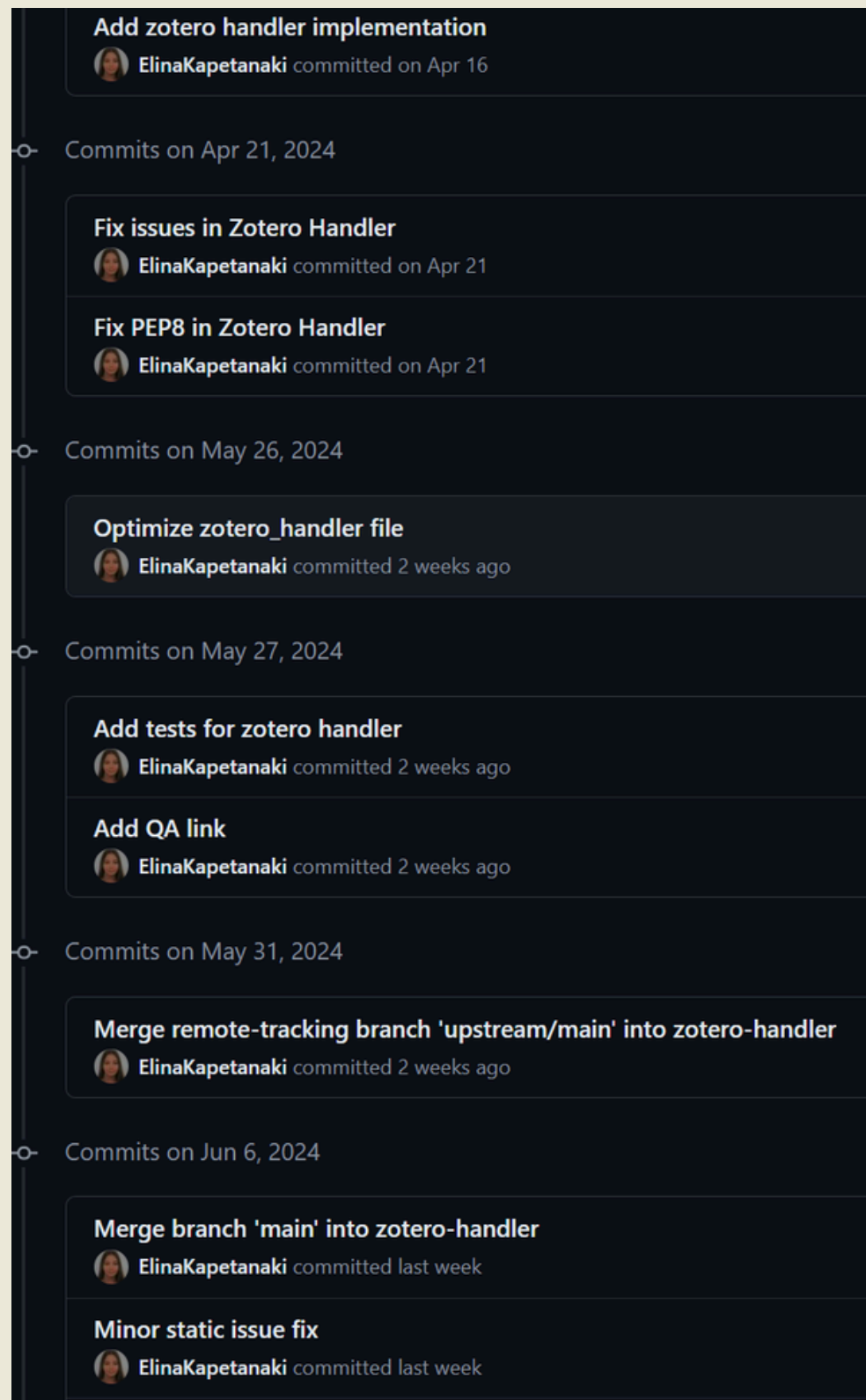😊

MinuraPunchihewa 3 days ago   `Collaborator`
@ElinaKapetanaki Sounds great! Just mark the PR as ready for review whenever you are ready and I will take a look.
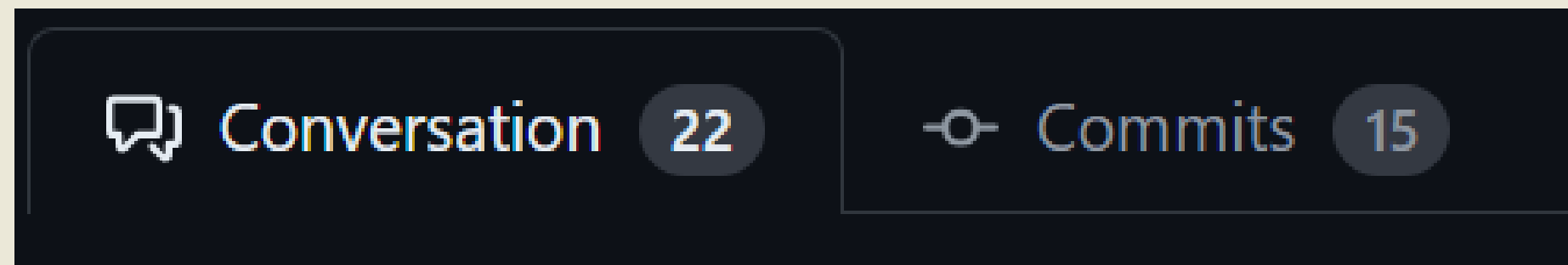😊   👍 1

Reply...

GitHub use

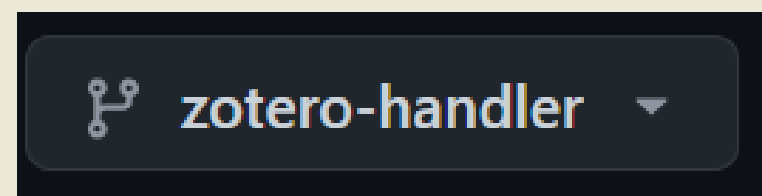## Get assigned on "help wanted issue"

Open a PR (at first as a draft)
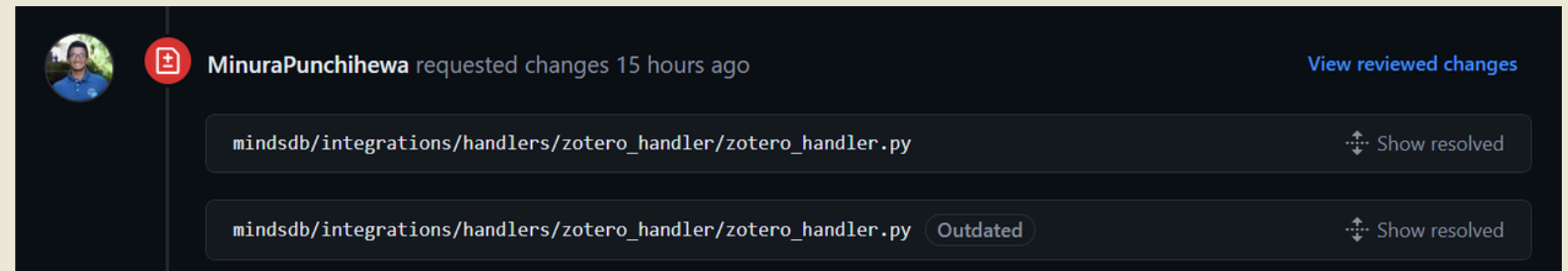

Work on my branch in my fork
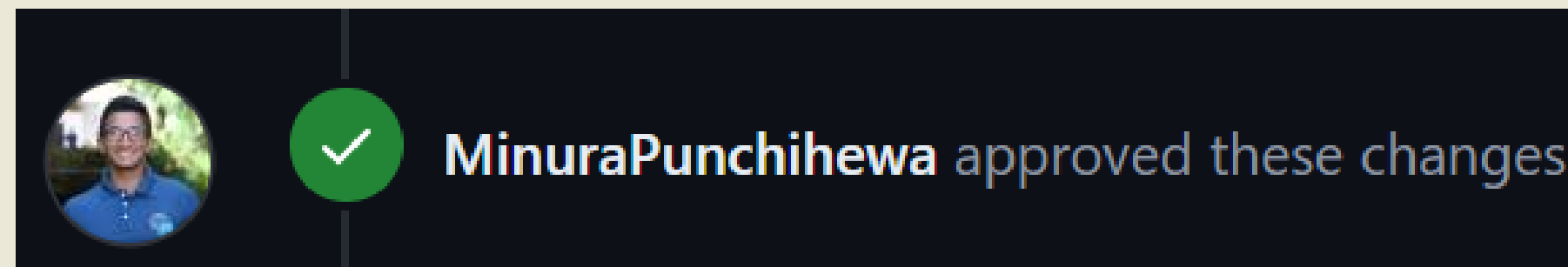
Code Reviews

Requests:

Refactoring

- split 1 file to 2 files,
- split 1 method to 3 methods

Screenshots of everything working

MinuraPunchihewa requested changes 15 hours ago

View reviewed changes

mindsdb/integrations/handlers/zotero_handler/zotero_handler.py — Show resolved

mindsdb/integrations/handlers/zotero_handler/zotero_handler.py Outdated — Show resolved

I've got a couple of requests:

1. Can you please resolve the conflicts here by merging the main branch into yours, please? The branches seem to be out of sync.
2. Can you please post a few screenshots or a quick video of this handler working as expected?

MinuraPunchihewa approved these changes

Code Reviews

- **Kind words**

- **Ready to merge**

  (changes -are shown in previous slide- were approved)
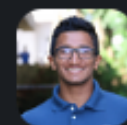
Thank you for your time!

Questions?