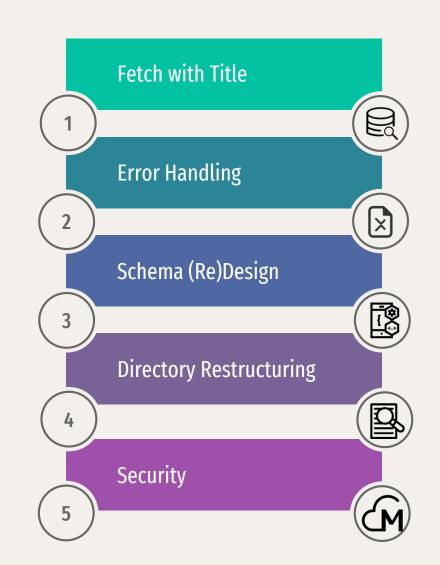
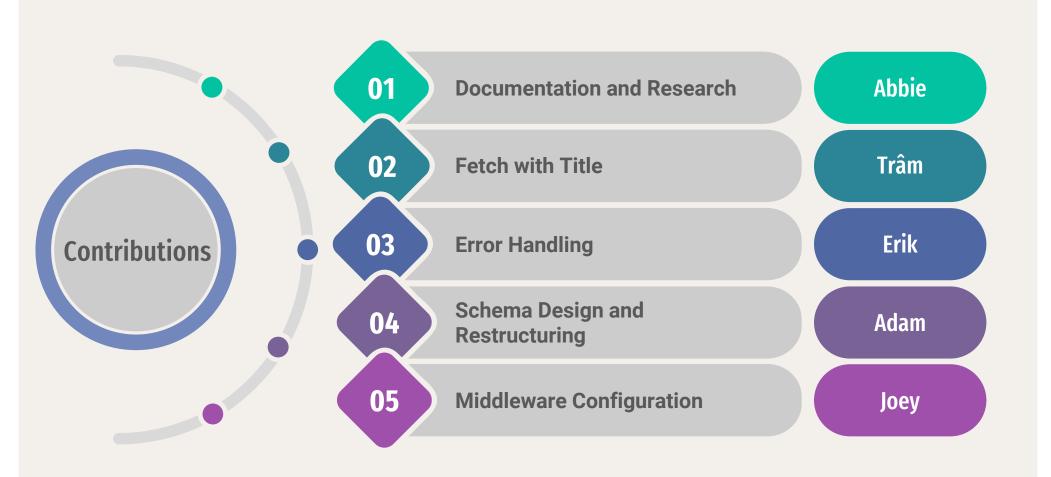


Accomplishments

Planned: 16/52

Completed: 21/52





User Story 1



As a developer, I want my API to be able to fetch articles based on the URL or Title given so that users don't have to rely solely on the URL.

Size: 5

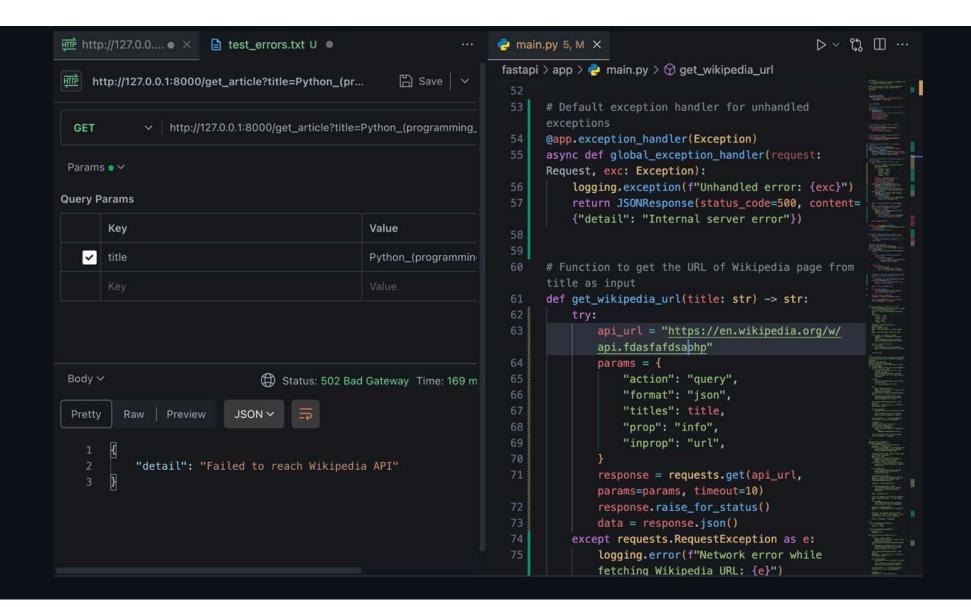
```
#Here is the function to accept the query paramether for either url or keyword (elastic search)
@app.get("/get_article", response_model=SourceArticleResponse)
def get_article(query: str = Query(..., description="Either a full Wikipedia URL or a keyword/title")):
    logging.info("Calling get article endpoint with query parameter")
    # If the query contains "wikipedia.org", we assume it's a URL and extract the title
    if "wikipedia.org" in query:
        title = extract_title_from_url(query)
        if not title:
            logging.info("Invalid Wikipedia URL provided.")
            raise HTTPException(status_code=400, detail="Invalid Wikipedia URL provided.")
    else:
       # else: we assume the query is the title
        title = query
   page = wiki_wiki.page(title)
    # Check if Wikipedia page exists
    if not page.exists():
        logging.info("Article not found.")
        raise HTTPException(status_code=404, detail="Article not found.")
    article_content = page.text # Get the article text
   # Fetch available languages
    languages = list(page.langlinks.keys())
    return {"sourceArticle": article_content, "articleLanguages": languages}
```



As a back-end developer, I want error-handling mechanisms that return meaningful error responses so that consuming services can gracefully handle failures.

Size: 5

User Story 2



User Story 3



As a back-end developer, I want consistent response structures across all schemas so that consuming services can reliably use the data.

Size 5

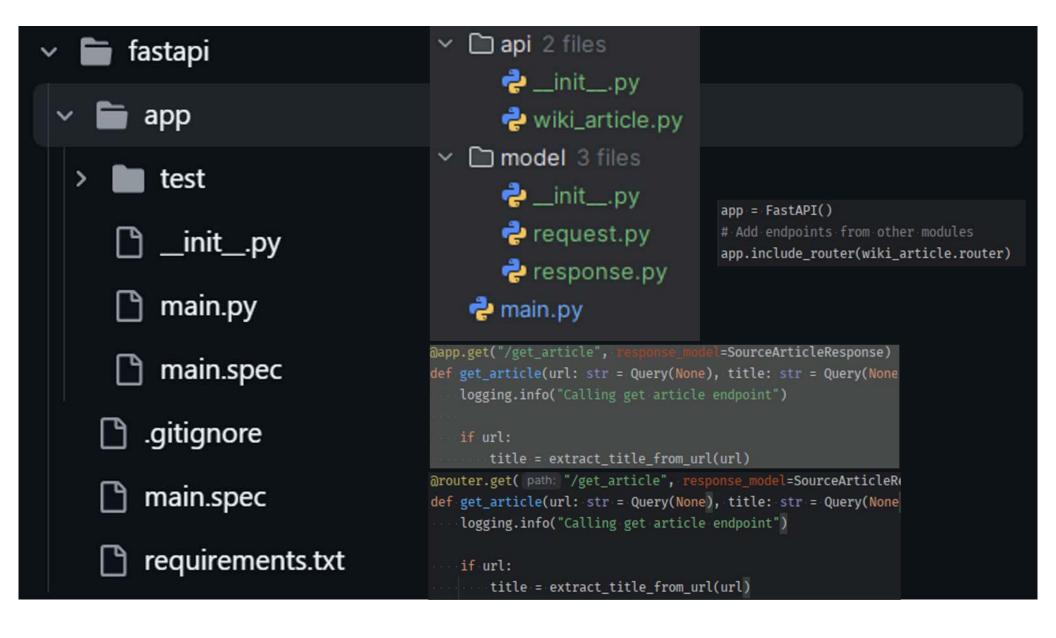
```
"comparisons_highlight":
"comparisons": [
                                                                                                   "article": "text blob",
    "original": "Sentence one of article.",
    "translation": "Sentence one of article.",
                                                                                                   "highlights":
    "similarity": 1.0
  },
                                                                                                    {"start": 10, "end": 21, "color": "red"},
    "original": "Sentence two of article.",
                                                                                                    {"start": 27, "end": 41, "color": "blue"},
    "translation": "Sentence article of two.",
    "similarity": 0.5
                                                                                                                     : 567, "color": "blue"}
                          "comparisons": [
                              "left": "Hello! This is an article.",
                              "right": "",
                              "highlight": "missing"
                            },
                              "left": "This information is in both articles. It will display with no highlight.",
                              "right": "This information is in both pages. It will display without highlighting.",
                              "highlight": "false"
                              "left": "",
                              "right": "This information is in the second article only.",
                              "highlight": "extra"
"original": "Sentence two of article.",
"original_translation": "Sentence two of article.",
"translation": "Sentence two",
"changed": 1
```



As a developer, I want the repository to be organized into easily-understandable and maintainable packages.

Size: 3

User Story 4



User Story 5



As a back-end developer, I want our configured middleware to be exceptionally secure and have selective origin parameters.

Size 3

```
app.add_middleware(
    CORSMiddleware,
    allow origins=["http://localhost"
                   "https://localhost"
                   "http://localhost:8000"
                   "https://wikipedia.org"
                   "https://*.wikipedia.org/*
    allow_credentials=True,
    allow_methods=["GET","HEAD"],
    allow_headers=["*"],
```

What Worked



01

Compromise



02

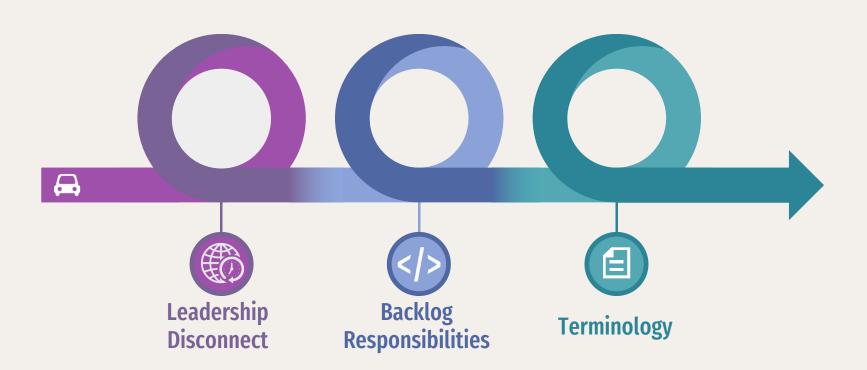
Paired Engineering



03

Meeting Planning

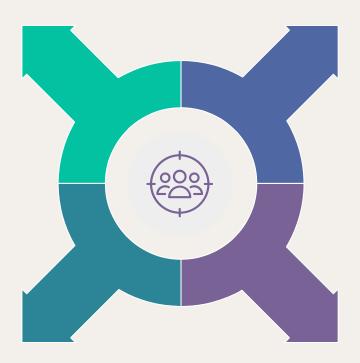
Roadblocks



Lessons Learned

Intergroup Development

Coding with other teams



Accountability

Last minute work

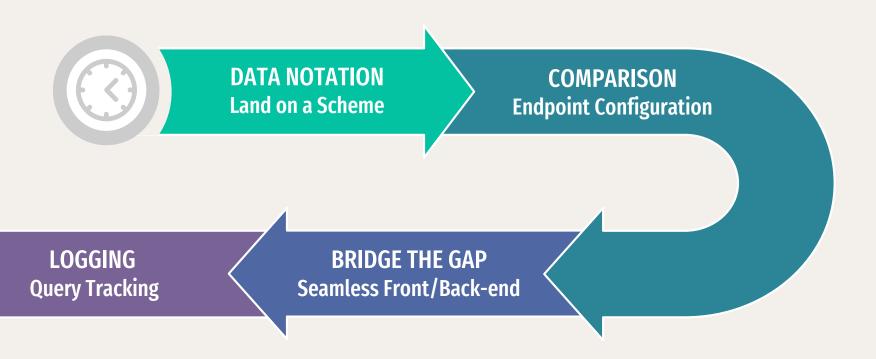
Regional Time Clarity

Meeting confirmation

Documentation

Finding solutions

Future



Thank you



With all my undying love for Wikipedia...

- anonymous