

Blogging app

Problem Statement: Create a blogging product that supports comments on paragraphs.

Deliverables: application with appropriate models and code for the initial problem statement.
Changes to model/code for subsequent iterations.

Requirements

- There should be APIs that allow me to add new blog posts.
- Each blog post should have an unique random identifier, a title and some plain text.
- The plain text has paragraphs, where each paragraph is separated by two new-line characters.
- Should also be able to add comments to paragraphs in a blog post.
- Do not worry about users or authentication.
- Focus primarily on the APIs and data models.
- User interface is not needed

What to do when the no. of paragraphs are huge ?

What to do when the no. of comments are huge ?

What to do when a given paragraph has thousands of words ?

RE-Ordering of paragraphs on a large scale ??

How will you edit/update a paragraph having a large no. of words ??

Update content in paragraph or adding at a particular position ??

Limit Offset problem on pagination

Concurrency control on edit

Data Modelling

Blog -

- slug - unique
- Title - text
- Created_at
- Updated_at
- Category_id

Card (Paragraph)

- Id
- order
- blog_id

- Text
- Version - (hash of text)
- Created_at
- updated_at

Comment

- Id
- Text
- Card_id
- Created_at
- updated_at

GET /page=1&size=2&last_blog_id=

Myblog.com

Response {

Error: ""

statusCode: 200

Data: {

Count: 100

Blogs: [

{

Title: ""

Slug: ""

}

]

}

}

Limit and offset

1 10000

9999

Listing API

BlogListSerailizer

BLog Detail API

BlogSerializer

Card per blog limit = 5 card per Comments limit - 10

GET /how-to-make-coffee/

GET /how-to-make-coffee/cards?page=1&size=5

GET /cards/:id/comments?page=1&size=10

```
Response {
  Error: ""
  statusCode: 200
  Data: {
    Title: ""
    Slug: ""

    Card_count: 100,
    Cards: [
      {
        Id: ""
        Text: ""
        Order: 1
        Version: ""
        Comment_count: 10000
        Comments: [
          "text"
        ]
      }
    ]
  }
}
```

On server	On Client
Types of coffee <ol style="list-style-type: none">1. Espresso2. Filter coffee This is sample paragraph	This is a very good Coffee This is the very good Coffee This is a very good Coffee This is aaa very good Coffee This is a very good Coffee This is a very good Coffee How to make coffee Types of coffee <ol style="list-style-type: none">1. Espresso2. Filter coffee

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Edit API

PATCH /cards/:id

```
Body: {
  Order: {
    Old: 1
    New: 2
  }
}
```

PATCH /cards/:id

```
Body: {
  Content: {
    "Type": "update/add"
    Text: ""
    position: ""
  }
}
```

POST /cards

```
Body: {
  Order: 1
  slug: "how-to-make-cofee"
  Text: "fafadsfdfs"
}
Response {
  "Id": ""
  "Text": ""
}
```