

INNOVATIVE MINI PROJECT

FULL STACK BLOGGING WEB APPLICATION

BATCH – 4(3-CSE-D)

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ABSTRACT

Blogging refers to writing, photography and other media that is self-published in online. It has started an opportunity for individuals to write diary-style entries. It enables you to reach the billions of people that use the internet. Looking into the technical elements, there are some popular blogging websites like Blogger, Tumblr etc. **Thses websites did not concentrate more about the** Every application has functional and non-functional requirements. Some non-functional requirements are design, performance, responsiveness and speed of the application. With the help of modern web frameworks, we can improve the UI design by using various frameworks like Tailwind which contains reusable components, that makes the development easier and make the application to look attractive and responsive. With modern back-end technologies the process of fetching/ storing data became simple, efficient and reliable, hence the performance and speed is improved. The code redundancy is reduced, which makes the web application simple and light in weight. The special features (functional requirements) of this web application is improved design patterns(like MVC) which enhances the performance, readability of the code and maintenance of the application.

INTRODUCTION

- What is a blog?

A blog is a **discussion or informational website published on the World Wide Web consisting of informal diary-style text entries (posts).**

Posts are typically displayed in reverse chronological order, so that the most recent post appears first, at the top of the web page.

- What is the purpose of a blog?

The purpose of a blog is **to provide content on your website that answers your prospective customers' questions and helps them learn about your product or service.** It expands your brand's visibility by giving Google and other search engines content to index and serve up in search results.



POPULAR BLOGGING WEBSITES

- ❖ WordPress.com
- ❖ WordPress.org
- ❖ Medium.com
- ❖ Blogger.com by Google.
- ❖ Tumblr.com
- ❖ Wix.com



SCENARIO OF EXISTING WEB APPLICATIONS

- These are not very serious issues with most of the users, but with improving day to day technological trends, user experience is given more priority over functionality of the application.
- Users are giving much importance to the visual experience of the application. They are expecting more about styling.
- With the existing applications, these aspects seems to be slightly outdated, so the main focus is done on these aspects.

PROBLEM STATEMENT

To develop a blogging web app that serves the purpose of bloggers/ content creators by giving more priority to non functional requirements of the application such as styling, visual experience, positioning of components and performance improvements with the use of modern web technologies and frameworks.



PROPOSED SOLUTION

- A sleek and attractive website is designed to display the posts, filter them by categories, added a dedicated slot to featured posts, recent posts, comments etc..
- All the data is maintained securely in the GraphCMS portal and is handled by admins and editors of the blog
- The comments posted by users are verified and published by a team of authorised members to prevent unrelated comments and to avoid spamming.
- Entire application is maintained as a Single Page Application(SPA), which is easy to maintain, easy to navigate between the sections and faster in performance.

OPERATING ENVIRONMENT

Languages used:

For UI Design:

ReactJS, NextJS, Tailwind CSS

For Backend Operations:

NodeJS, GraphCMS

Running Environment:

Any updated browser like Brave/Chrome

Tools:

VScode, Github

System Requirements:

RAM : 4GB or above

Disk space : 4GB or above

Processor : any updated 64 bit processor

Operating System: Windows/ Mac/ Linux



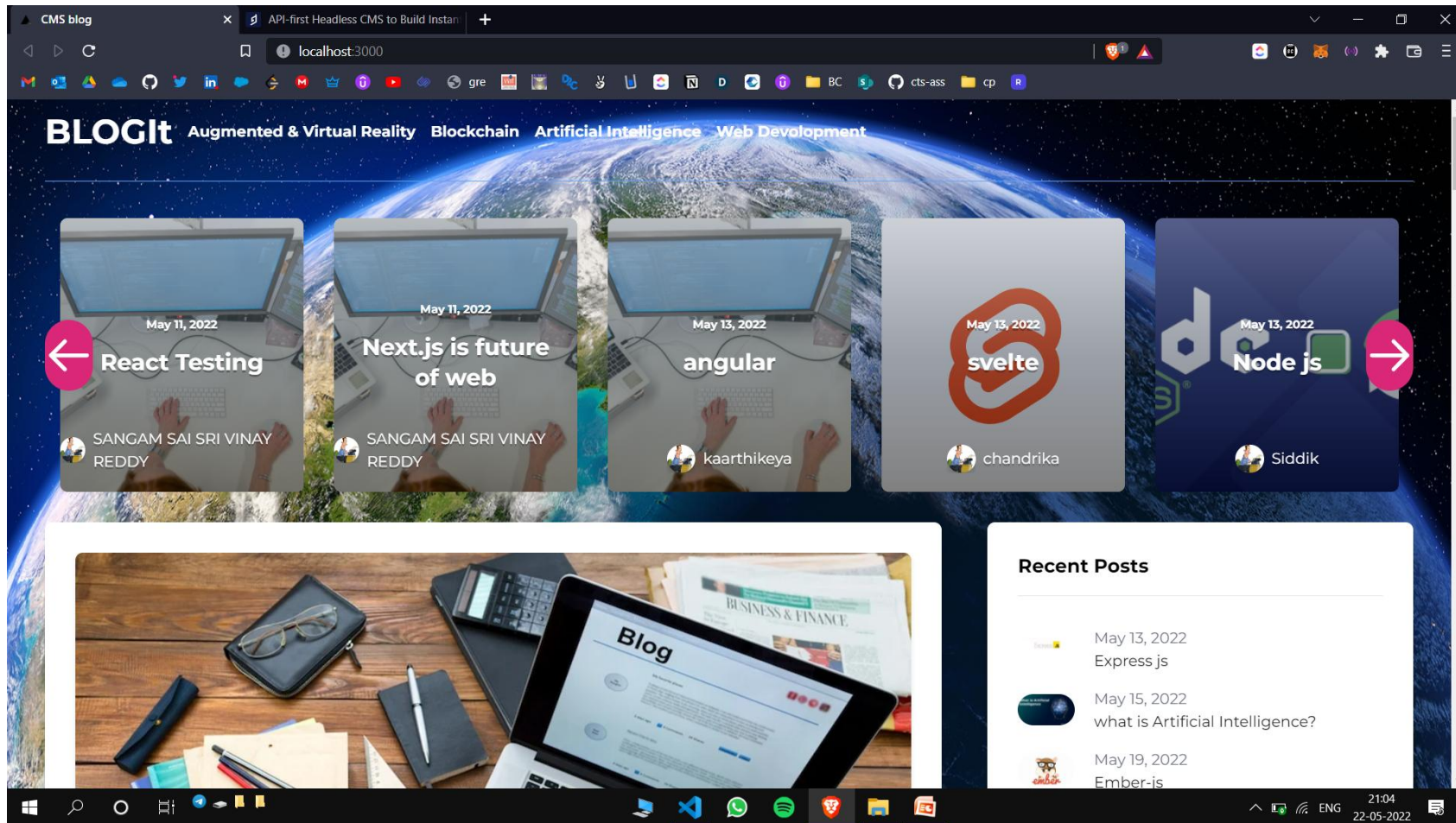
FUTURE ENHANCEMENTS

- Improve the UI further by adding new features such as no. of likes, shares etc..
- Adding more catogeries other than professional ones, like productivity tips, developer life stories, corporate life and work styles etc..

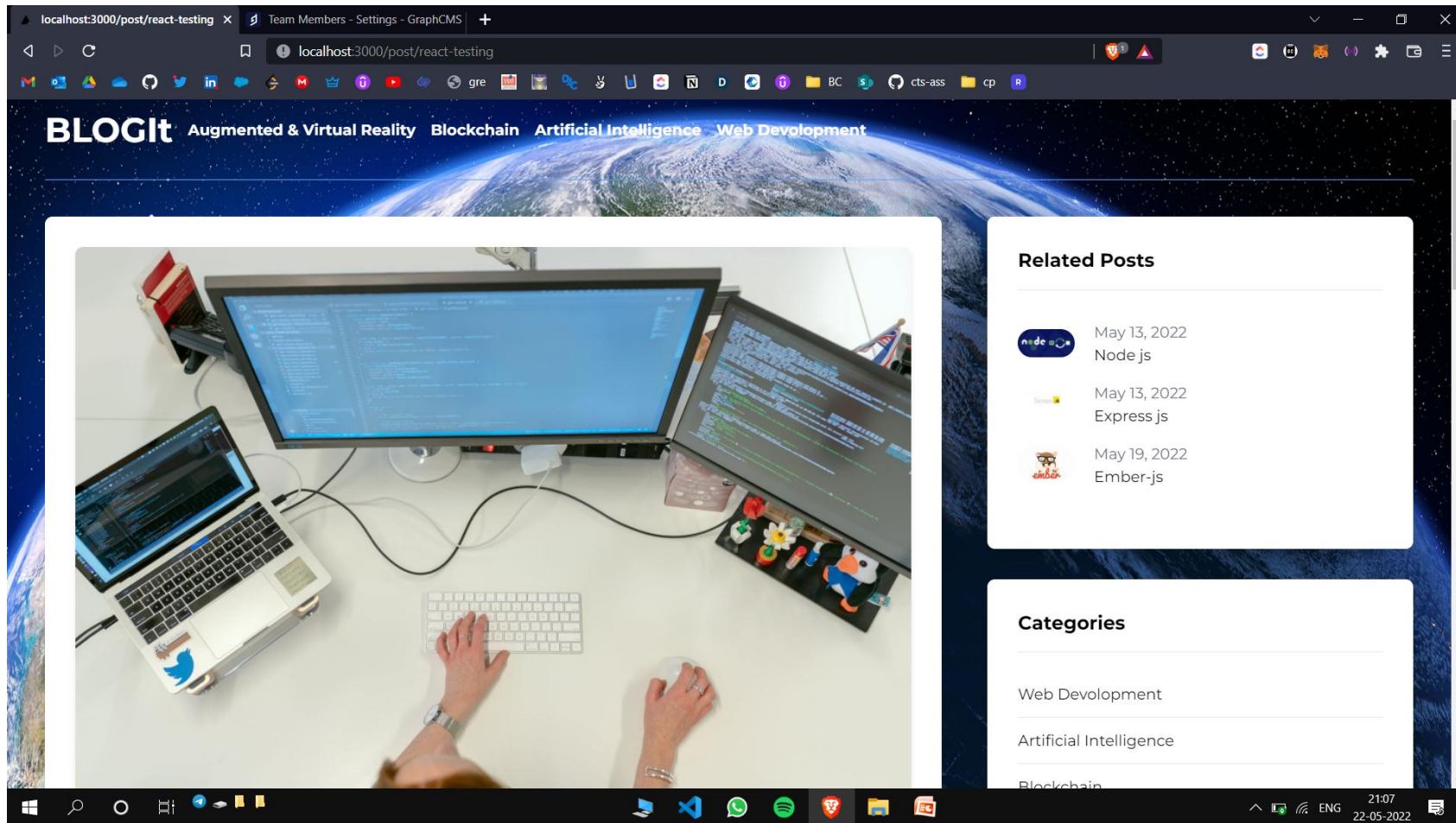




SCREENSHOTS



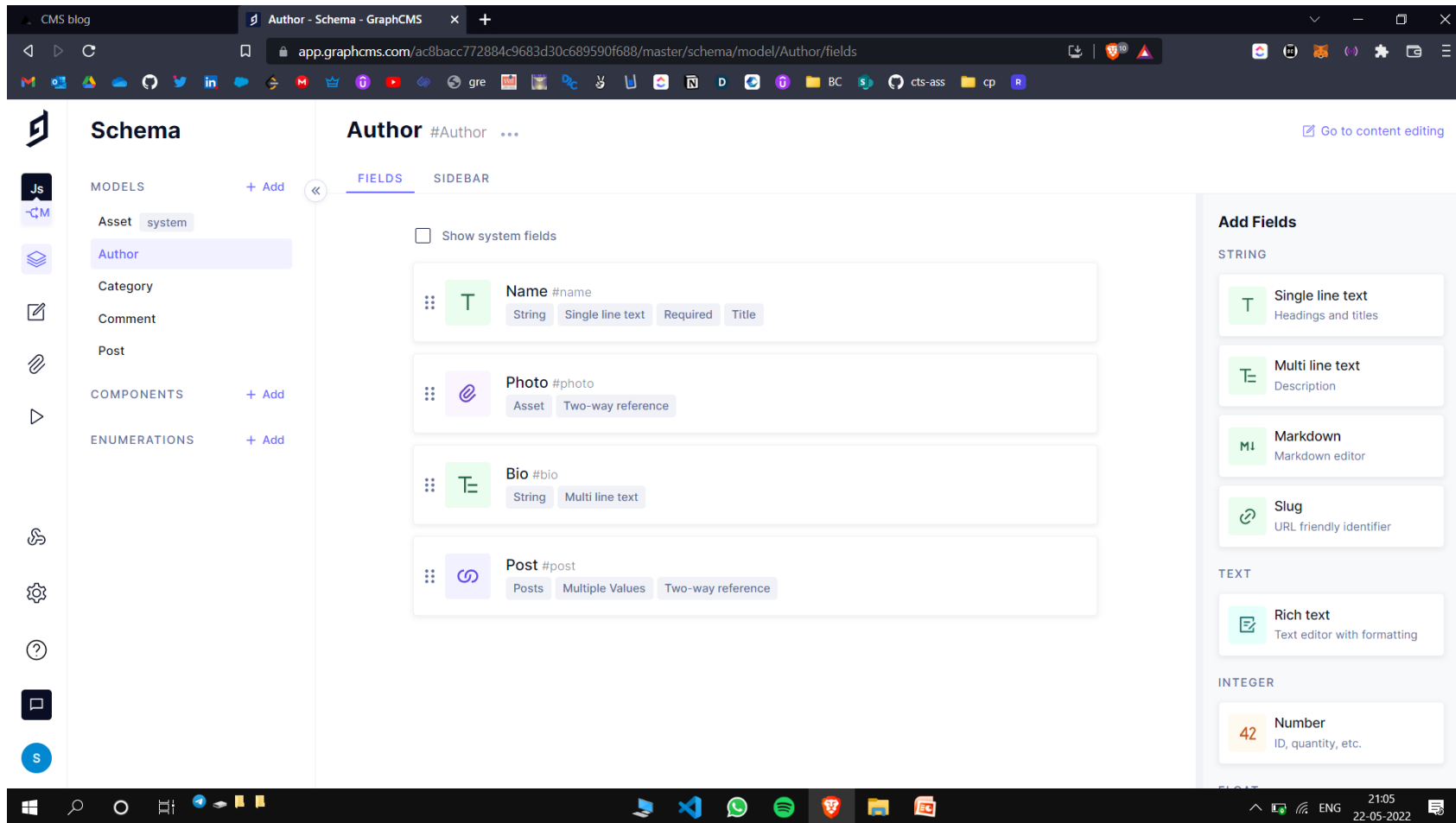
Home screen of the application



Category post – web development



Exploring Graph CMS portal



The screenshot displays the Graph CMS portal interface for defining a schema. The browser address bar shows the URL: `app.graphcms.com/ac8bacc772884c9683d30c689590f688/master/schema/model/Author/fields`. The interface is divided into several sections:

- Schema**: A sidebar on the left containing a list of models: `Asset` (system), `Author` (selected), `Category`, `Comment`, and `Post`. Below this are sections for `COMPONENTS` and `ENUMERATIONS`, each with a `+ Add` button.
- Author #Author**: The main header for the selected model, with a `Go to content editing` link.
- FIELDS**: The active tab for defining the fields of the `Author` model. It includes a `Show system fields` checkbox and a list of fields:
 - Name #name**: A `String` field, `Single line text`, `Required`, and `Title`.
 - Photo #photo**: An `Asset` field, `Two-way reference`.
 - Bio #bio**: A `String` field, `Multi line text`.
 - Post #post**: A `Posts` field, `Multiple Values`, `Two-way reference`.
- Add Fields**: A sidebar on the right showing available field types for addition, categorized by type:
 - STRING**: `Single line text` (Headings and titles), `Multi line text` (Description), `Markdown` (Markdown editor), `Slug` (URL friendly identifier).
 - TEXT**: `Rich text` (Text editor with formatting).
 - INTEGER**: `Number` (ID, quantity, etc.).

The Windows taskbar at the bottom shows the system time as 21:05 on 22-05-2022.

Defining the schema



Author - Content - GraphCMS

app.graphcms.com/ac8bacc772884c9683d30c689590f688/master/content/57b6978e5f5342a48199789520ff5754/view/873f593...

Content

SCHEDULE

Individual items

Releases

CUSTOM VIEWS

DEFAULT VIEWS

Author

Category

Comment

Post

Author

+ Create entry



en x

Search for any item...

+ Filter

0 items selected

Configure columns

	Stages	ID	Created At	Created By	Updated At	Updated By	Name	Photo	Bio
<input type="checkbox"/>	Published	cl30uowbm0d...	May 11, 2022, 6:05	sangam sai sr	May 15, 2022, 9:55	sangam sai sr	SANGAM SAI SRI \		Edit
<input type="checkbox"/>	Published	cl31w4ut518b...	May 11, 2022, 11:3	sangam sai sr	May 13, 2022, 6:15	sangam sai sr	KAARTHIKEYA		Edit
<input type="checkbox"/>	Published	cl33z59nu3ixf...	May 13, 2022, 10:0	sangam sai sr	May 13, 2022, 10:0	sangam sai sr	kaarthikeya	-	Edit
<input type="checkbox"/>	Published	cl3406zu23hy...	May 13, 2022, 11:0	sangam sai sr	May 19, 2022, 9:20	sangam sai sr	chandrika	-	Edit
<input type="checkbox"/>	Published	cl34ac71c48k...	May 13, 2022, 3:4	sangam sai sr	May 13, 2022, 3:4	sangam sai sr	Siddik	-	Edit
<input type="checkbox"/>	Published	cl34amg2w49...	May 13, 2022, 3:5	sangam sai sr	May 13, 2022, 3:5	sangam sai sr	sid	-	Edit
<input type="checkbox"/>	Published	cl34aysdt49i7...	May 13, 2022, 4:0	sangam sai sr	May 13, 2022, 4:0	sangam sai sr	sreekar	-	Edit
<input type="checkbox"/>	Published	cl34b5hkm49r...	May 13, 2022, 4:0	sangam sai sr	May 13, 2022, 4:0	sangam sai sr	shaheer	-	Edit

8 items

Previous

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Next

Show 25

Maintaining the content inside the portal



Assets - GraphCMS

app.graphcms.com/ac8bacc772884c9683d30c689590f688/master/assets/fa65a08dbdf3460cb389397de100e053

Assets

CUSTOM VIEWS

DEFAULT VIEWS









Asset

Asset All

Upload Create entry

en x Search for any item... Filter

0 items selected

		Stages	Preview	ID	Created At	Created By	Updated At	Updated By	Handle	File Name	Height
<input type="checkbox"/>	<input type="checkbox"/>	Draft		cl3csc2gf1jgc...	May 19, 2022, 2:30	chandrika tho	May 19, 2022, 2:30	chandrika tho	getwo6ouRSOEjE url		-
<input type="checkbox"/>	<input type="checkbox"/>	Published		cl3chc0qi19ct...	May 19, 2022, 9:20	chandrika tho	May 19, 2022, 9:20	chandrika tho	kk4vOWfgRtWt7! OIP.jpg		180
<input type="checkbox"/>	<input type="checkbox"/>	Published		cl36sk96g5ug...	May 15, 2022, 9:50	sangam sai sr	May 15, 2022, 9:50	sangam sai sr	rg9gnxDSLINQWZ What-is-Artificial-I		500
<input type="checkbox"/>	<input type="checkbox"/>	Draft		cl34b48ay49p...	May 13, 2022, 4:00	sangam sai sr	May 13, 2022, 4:00	sangam sai sr	Wu9rkmWtSKFIH! 1*IXsCHAHpN7xF/		1049
<input type="checkbox"/>	<input type="checkbox"/>	Draft		cl34asnfc47uh...	May 13, 2022, 3:50	sangam sai sr	May 13, 2022, 3:50	sangam sai sr	ZydaYhTITmyiLxM 1*wFL3csJ96lQpY		720
<input type="checkbox"/>	<input type="checkbox"/>	Published		cl34alank492y...	May 13, 2022, 3:50	sangam sai sr	May 13, 2022, 3:50	sangam sai sr	P18PrSzORuSLRta beginners-guide-t		1484
<input type="checkbox"/>	<input type="checkbox"/>	Published		cl34agx3g48r...	May 13, 2022, 3:50	sangam sai sr	May 13, 2022, 3:50	sangam sai sr	oujZoe8Sp62j4c8: convert.png		512
<input type="checkbox"/>	<input type="checkbox"/>	Published		cl34aal9248j4...	May 13, 2022, 3:40	sangam sai sr	May 13, 2022, 3:50	sangam sai sr	sbxUAmLaS9yHjIR url		-

11 items

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Show 25

Maintaining the assets like images, links etc.



API Playground - GraphCMS

app.graphcms.com/ac8bacc772884c9683d30c689590f688/master/graphql

Playground

categories

- ☐ after:
- ☐ before:
- ☐ first:
- ☐ last:
- ☐ locales:
- ☐ orderBy:
- ☐ skip:
- ☐ stage:
- ☒ where:
- ☒ createdAt
- ☐ createdBy

documentInStages

- ☒ includeCurrent: false
- ☐ inheritLocale:
- ☒ stages: DRAFT
- ☐ createdAt
- ☐ createdBy
- ☐ documentInStages

history

- ☒ limit: 10
- ☐ skip:
- ☐ stageOverride:
- ☐ createdAt
- ☐ id
- ☐ revision
- ☐ stage

MyQuery

Prettify Environment: master Default Stage No Locale

```
1 query MyQuery {
2   categories {
3     createdAt
4     documentInStages(includeCurrent: false, stages: DRAFT) {
5       history(limit: 10)
6     }
7   }
8 }
9
```

Docs

QUERY VARIABLES HTTP HEADERS

Generating the api calls in GraphQL language



Team Members - Settings - GraphCMS

app.graphcms.com/ac8bacc772884c9683d30c689590f688/master/settings/members





Settings

- GENERAL
 - Project
 - Environments
 - Integrations
 - Content Stages
 - Locales
 - Billing
 - UI Extensions PREVIEW
- ACCESS
 - API Access
 - Endpoints
 - Public Content API
 - Permanent Auth Tokens
 - Roles & Permissions
 - Team Members

Team Members

Get an overview and control what your team members can do in GraphCMS.

ACTIVE USERS (4/5) [Add team member](#)

User	Roles
 sangam sai sri vinay reddy Owner	Admin
 chandrika thota	Editor ...
 Kaarthikeya pavana kumaar	Editor ...
 Shaik Siddik	Editor ...

Windows taskbar: 21:06, 22-05-2022

Admin portal

Thank you

