

## Final Assignment Report

**Group Name: Promise**

**Group Members: Ze Yu, Lijia Liu, Kaihang Zhu**

Member	Main Task	Other Contributions
Ze Yu	Member 1: socket.io, nodeJS server, the chat/annotation interface	Router configuration, Dynamically news display, Logic service design.
Kaihang Zhu	Member 2: service worker, MongoDB	
Lijia Liu	Member 3: IndexedDb, Axios communication, Swagger documentation	

**GitHub Repository:** <https://github.com/Maxyz123/promise>



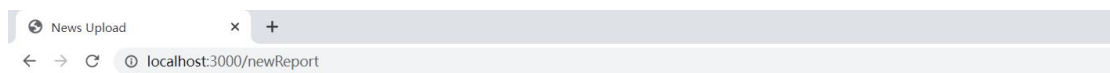
# News Center

Welcome to the News Reports Center!

You can click an interested title or picture to start your Chat Room!

[Get News](#)

This is the Main Page



## News Upload

Feel Free to Upload Your New Report to the News Center!

Author name:

Title:

Report Text:

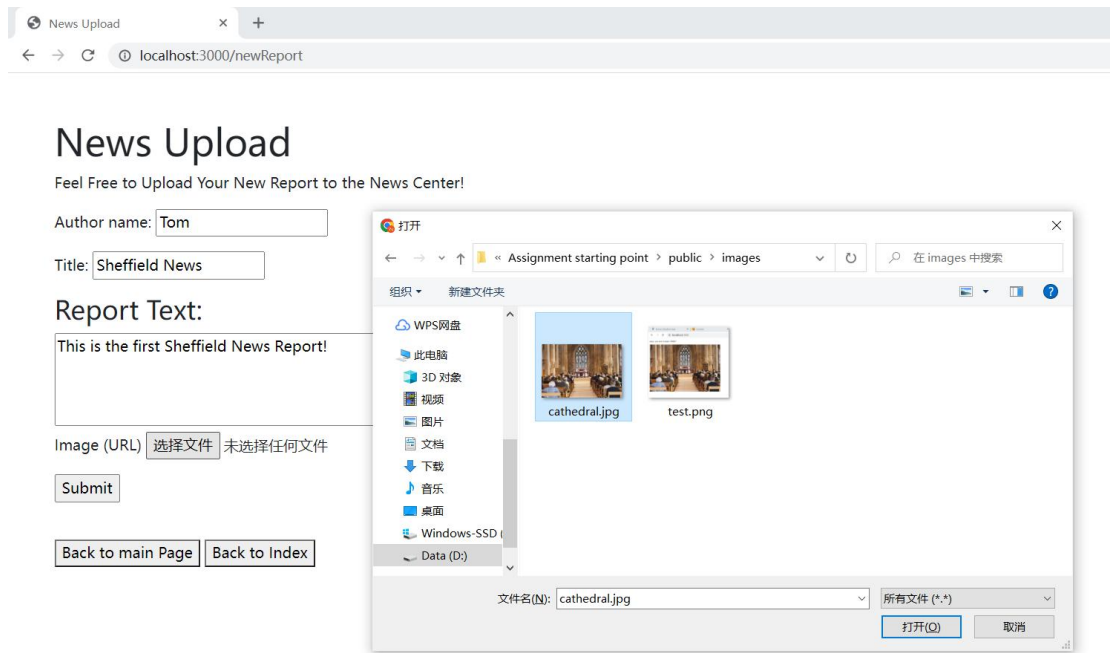
Image (URL) [选择文件](#) 未选择任何文件

[Submit](#)

[Back to main Page](#)

[Back to Index](#)

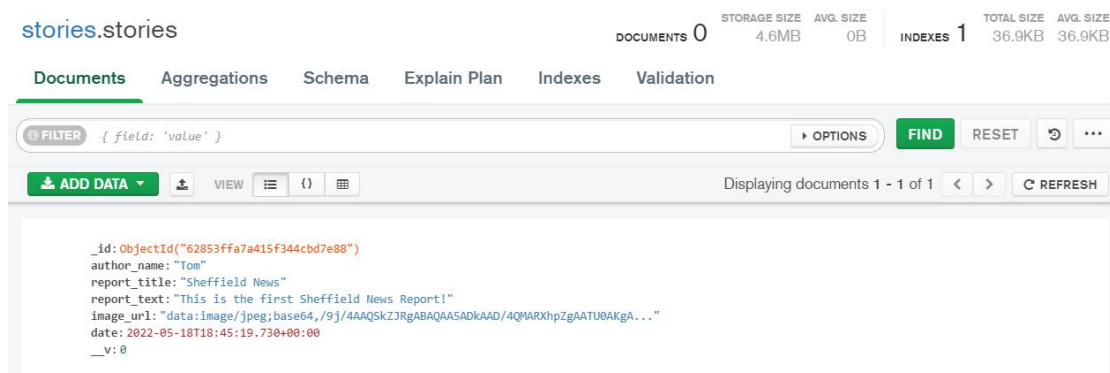
Start to report a News



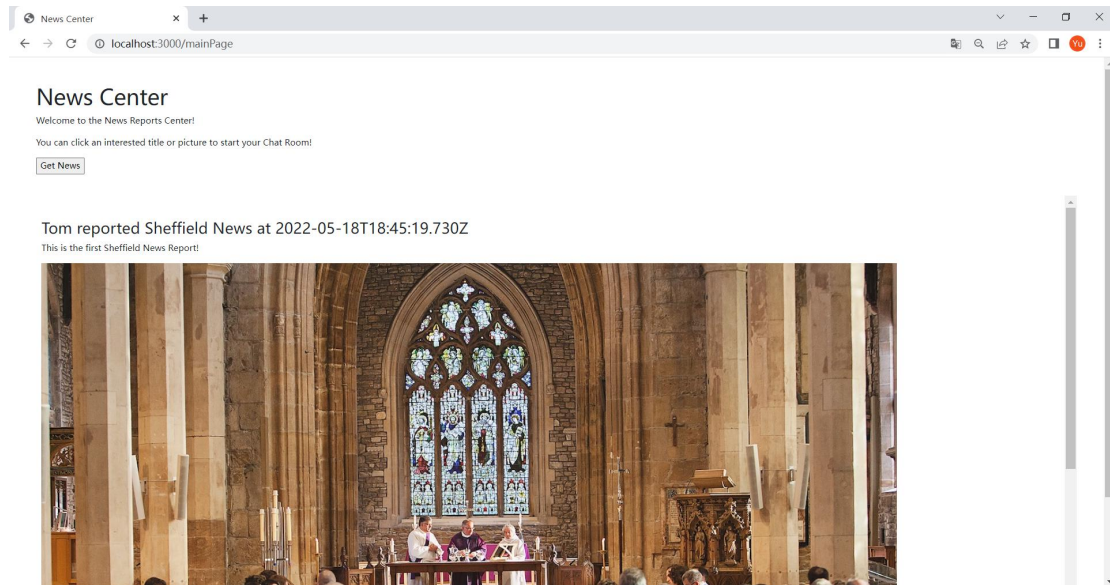
Fill in the News Report Form and select a picture



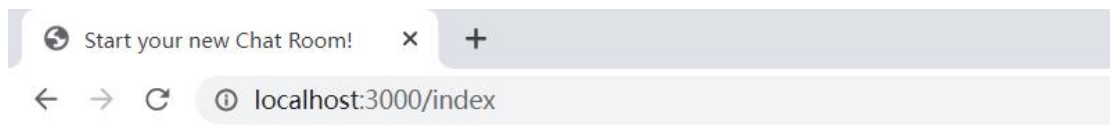
Server respond that New Report created successfully



News report in MongoDB and the image is stored in base64



Go to the main page and get News



On click the title or image to start a new Chat Room

Tom, you are in room: R9827

## Report by Tom on 2022/5/18

This is the first Sheffield News Report!



Click to Delete the Picture

Type:

Successfully entered the Chatting room

chat:

Another user Jerry joined the same room and send a message



Tom, you are in room: R9827

## Report by Tom on 2022/5/18

This is the first Sheffield News Report!



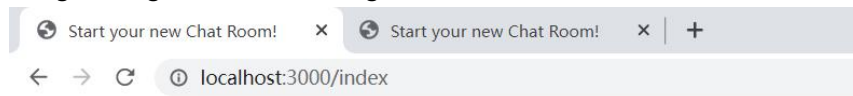
[Click to Delete the Picture](#)

Type:

[Set type](#)

Jerry: Hello Tom

The Chatting message submitted through socket.io to all rooms in the same Room Number



Tom, you are in room: R9827

## Report by Tom on 2022/5/18

This is the first Sheffield News Report!



[Click to Delete the Picture](#)

Type:

[Set type](#)

Jerry: Hello Tom

Tom draws a new annotation in canvas


Start your new Chat Room! x Start your new Chat Room! x +

localhost:3000/index

Jerry, you are in room: R9827

## Report by Tom on 2022/5/18

This is the first Sheffield News Report!



Click to Delete the Picture

Type:  Set type

Tom joined room R9827

Jerry: Hello Tom


The annotation sent through socket.io to all the rooms with the same room number

Click to Delete the Picture


Type:  Set type

Search for:


of type: Per:  
Jerry: Hello



**Taylor Swift**  
American singer-songwriter  
Taylor Alison Swift is an American singer-songwriter. Her discography spans multiple genres, and ...  
Source: [Wikipedia](#), available under [License](#).



**Tarra White**  
Pornographic actress  
Tarra White is a Czech pornographic actress.  
Source: [Wikipedia](#), available under [License](#).



**Taylor Dayne**  
American singer-songwriter  
Taylor Dayne is an American singer

chat:

Back to m

Use the Knowledge Graph to search a Person's information



Taylor Alison Swift is an American singer-songwriter. Her discography spans multiple genres, and her narrative songwriting—often inspired by her personal life—has received critical praise and widespread media coverage.  
[Link to Webpage](#)  
Jerry: Hello Tom

Tom: Has pushed a new searching result about **Taylor Swift** to the Panel

Select a result and the person's information showed with socket.io in rooms

Tom, you are in room: R9827

## Report by Tom on 2022/5/18

This is the first Sheffield News Report!



Click to Delete the Picture

Type: Person

Set type

Search for: Taylor Swift

of type: Person

User can also draw in the searched images and update the annotation in chatting rooms with socket.io

#	Key (Key path: 'userId')	Primary key (Key path: 'id')	Value
0	"Tom"	1	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
1	"Tom"	2	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
2	"Tom"	3	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
3	"Tom"	4	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
4	"Tom"	5	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
5	"Tom"	6	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
6	"Tom"	7	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
7	"Tom"	8	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
8	"Tom"	9	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
9	"Tom"	10	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
10	"Tom"	11	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
11	"Tom"	12	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
12	"Tom"	13	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565
13	"Tom"	14	{room: "R9827", userId: "Tom", width: 565, height: 377, prevX: 341, color: "red", currY: 184.79999542236328, height: 377, id: 1, imgUrl: "data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAA..."} prevY: 184.79999542236328 prevV: 184.79999542236328 room: "R9827" thickness: 4 userId: "Tom" width: 565

The IndexedDB will record the annotations information



#	Key (Key path: "resultId")	Primary key (Key path: "id")	Value
0	"id: /m/0d1567"	1	<pre>{   "resultId": "/m/0d1567",   "resultName": "Taylor Swift",   "resultId": 1,   "resultDescription": "Taylor Alison Swift is an American singer-songwriter.",   "resultImage": "https://en.wikipedia.org/wiki/Taylor_Swift",   "resultPanel": "block" }</pre>
1	"id: /m/0d1567"	2	<pre>{   "resultId": "/m/0d1567",   "resultName": "Taylor Swift",   "resultId": 2,   "resultDescription": "Taylor Alison Swift is an American singer-songwriter.",   "resultImage": "https://en.wikipedia.org/wiki/Taylor_Swift",   "resultPanel": "block" }</pre>
2	"id: /m/0d1567"	3	<pre>{   "resultId": "/m/0d1567",   "resultName": "Taylor Swift",   "resultId": 3,   "resultDescription": "Taylor Alison Swift is an American singer-songwriter.",   "resultImage": "https://en.wikipedia.org/wiki/Taylor_Swift",   "resultPanel": "block" }</pre>
3	"id: /m/0d1567"	4	<pre>{   "resultId": "/m/0d1567",   "resultName": "Taylor Swift",   "resultId": 4,   "resultDescription": "Taylor Alison Swift is an American singer-songwriter.",   "resultImage": "https://en.wikipedia.org/wiki/Taylor_Swift",   "resultPanel": "block" }</pre>

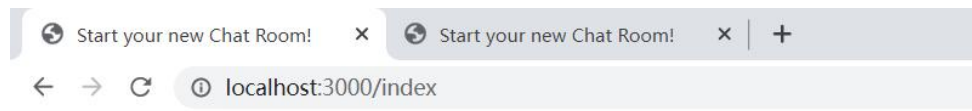
Knowledge Graph information recorded in IndexedDB

#	Key (Key path: "name")	Primary key (Key path: "id")	Value
0	"Tom"	1	<pre>{   "name": "Tom",   "text": "This is the first Sheffield News Report!",   "date": "Wed May 18 2022 19:50:34 GMT+0100 (英国夏令时间)",   "id": 1,   "image_url": "data:image/jpeg;base64,/9j/AAQSkZJRgABAQAAASADk...",   "name": "Tom",   "text": "This is the first Sheffield News Report!" }</pre>

The Report Information stored in IndexedDB

#	Key (Key path: "userId")	Primary key (Key path: "id")	Value
0	"Jerry"	1	<pre>{   "userId": "Jerry",   "text": "&lt;b&gt;Jerry:&lt;/b&gt; Hello Tom",   "id": 1,   "text": "&lt;b&gt;Jerry:&lt;/b&gt; Hello Tom",   "userId": "Jerry" }</pre>
1	"Jerry"	2	<pre>{   "userId": "Jerry",   "text": "&lt;b&gt;Jerry:&lt;/b&gt; Hello Tom",   "id": 2,   "text": "&lt;b&gt;Jerry:&lt;/b&gt; Hello Tom",   "userId": "Jerry" }</pre>
2	"Tom"	3	<pre>{   "userId": "Tom",   "text": "&lt;b&gt;Tom:&lt;/b&gt; Hello World",   "id": 3,   "text": "&lt;b&gt;Tom:&lt;/b&gt; Hello World",   "userId": "Tom" }</pre>
3	"Tom"	4	<pre>{   "userId": "Tom",   "text": "&lt;b&gt;Tom:&lt;/b&gt; Hello World",   "id": 4,   "text": "&lt;b&gt;Tom:&lt;/b&gt; Hello World",   "userId": "Tom" }</pre>
4	"Tom"	5	<pre>{   "userId": "Tom",   "text": "&lt;b&gt;Tom:&lt;/b&gt; Glad to chat with you, Jerry",   "id": 5,   "text": "&lt;b&gt;Tom:&lt;/b&gt; Glad to chat with you, Jerry",   "userId": "Tom" }</pre>
5	"Tom"	6	<pre>{   "userId": "Tom",   "text": "&lt;b&gt;Tom:&lt;/b&gt; Glad to chat with you, Jerry",   "id": 6,   "text": "&lt;b&gt;Tom:&lt;/b&gt; Glad to chat with you, Jerry",   "userId": "Tom" }</pre>

Chatting history recorded in IndexedDB



## Report by **Tom** on 2022/5/18

This is the first Sheffield News Report!



[Click to Delete the Picture](#)

Type:  Set type

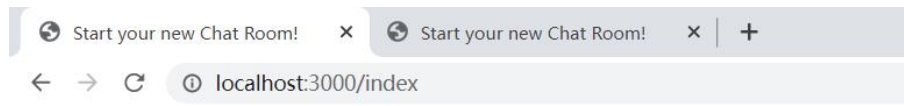
Tom: Hello World!

Tom: Hello World!

Tom: Glad to chat with you, Jerry!

Tom: Glad to chat with you, Jerry!

When the user enters the same room again he can see the history recorded in IndexedDB



## Report by Tom on 2022/5/18

This is the first Sheffield News Report!



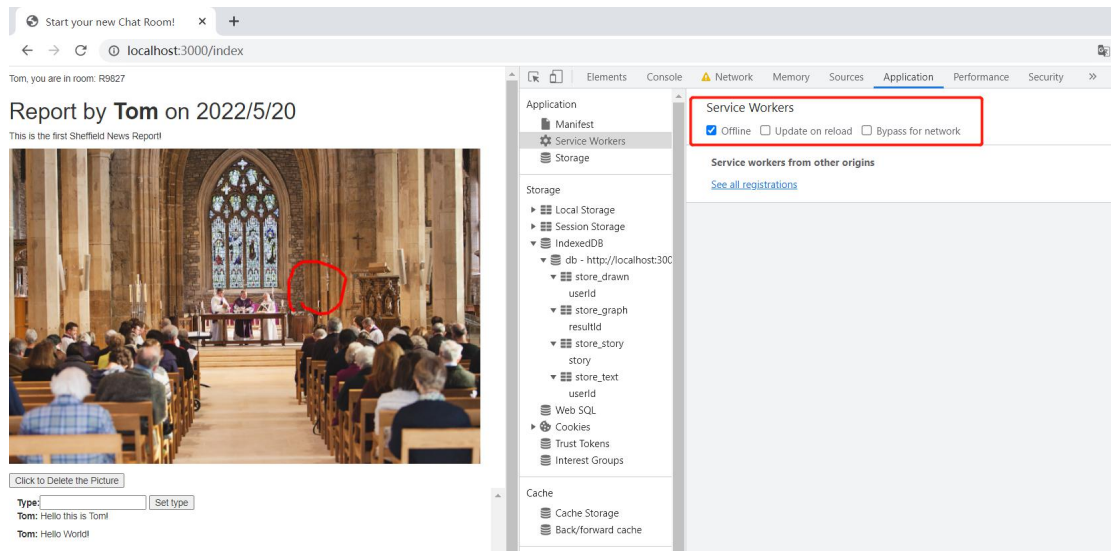
Click to Delete the Picture

Type:

Jerry: Hello Tom

Set type

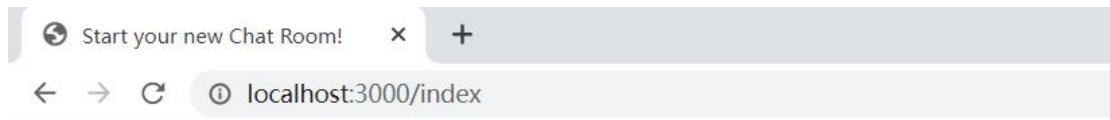
When a user enters the same room he will only see his own Chatting history



Taking annotations offline

#	Key (Key path: "userId")	Primary key (Key path: "id")	Value
0	"Tom"	1	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
1	"Tom"	2	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
2	"Tom"	3	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
3	"Tom"	4	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
4	"Tom"	5	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
5	"Tom"	6	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
6	"Tom"	7	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...
7	"Tom"	8	{room: "R9827", userId: "Tom", width: 628, height: 419, pre...

Offline data stored in the IndexedDB



Tom, you are in room: R9827

## Report by Tom on 2022/5/20

This is the first Sheffield News Report!



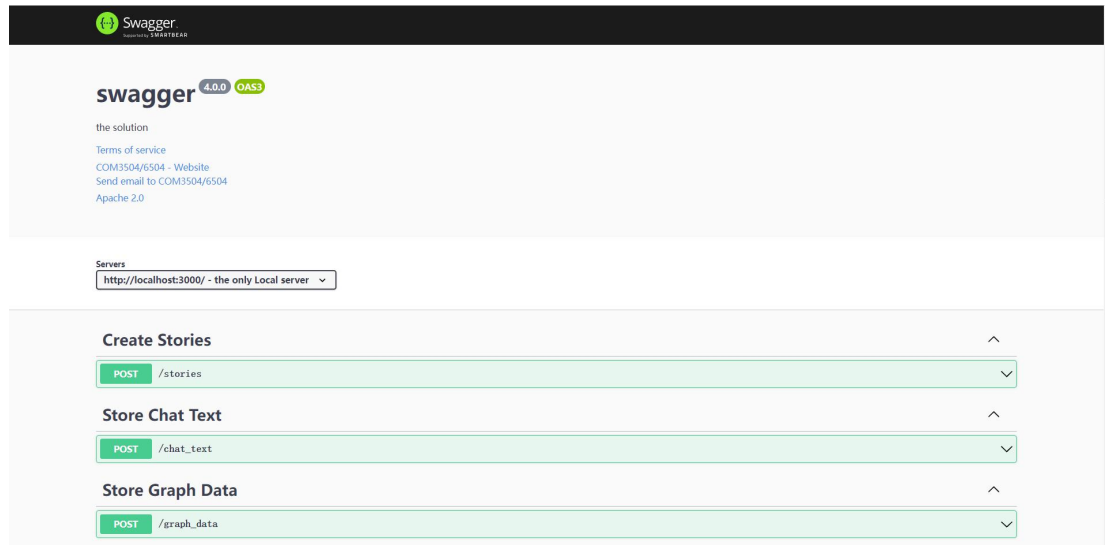
Click to Delete the Picture

Type:  Set type

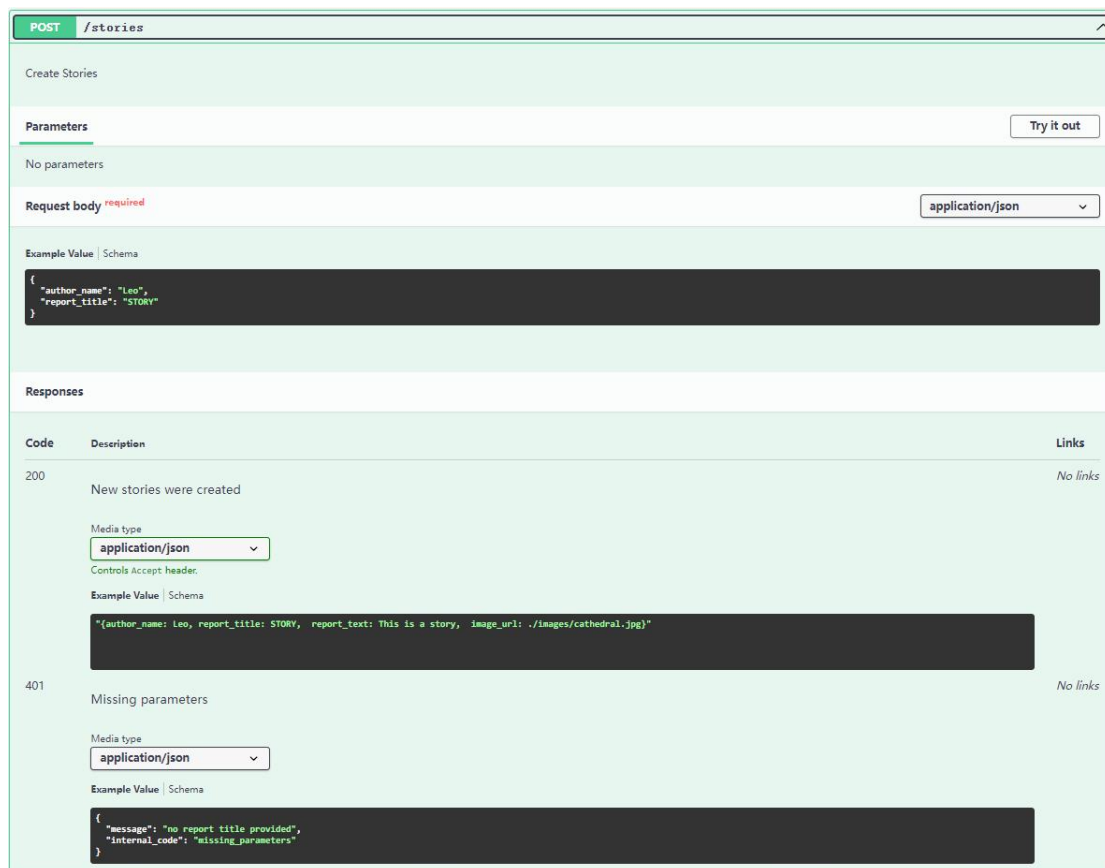
Tom: Hello this is Tom!

Tom: Hello World!

User can see his annotation history stored in the IndexedDB



This is the swagger api-docs Page



Doc for post/stories

Store Graph Data

POST /graph\_data

Schemas

author\_name ▼ string  
*example: Leo*  
people who posted the story

report\_title ▼ string  
*example: STORY*

report\_text ▼ string  
*example: This is a story*  
the content of the story

image\_url >

userid >

resultid >

Schemas