

## Part 1 Assignment Report

**Group Name: Promise**

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

<b>Member</b>	<b>Main Task</b>	<b>Other Contributions</b>
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>

## =Features by Member 1 Ze Yu=

### 1. Socket.io

zeyu, you are in room: R9827

#### Report by **tom** on 2022/4/13



[Click to Delete the Picture](#)

Type:

[Set type](#)

**tom** joined room R9827

**zeyu**: Hi Tom

**tom**: Hi Ze Yu

### Chat Room Socket

zeyu, you are in room: R9827

#### Report by **tom** on 2022/4/13



tom, you are in room: R9827

#### Report by **tom** on 2022/4/13



### Sync Annotation socket

zeyu, you are in room: R9827

## Report by tom on 2022/4/13



Click to Delete the Picture



James Patrick Page OBE is an English musician, songwriter, multi-instrumentalist, and record producer who achieved international success as the guitarist and founder of the English rock band Led Zeppelin.

[Link to Webpage](#)

tom joined room R9827

zeyu: Hi Tom

tom: Hi Ze Yu

zeyu: Has pushed a new searching result about **Robert Plant** to the Panel

zeyu: Has pushed a new searching result about **Eric Clapton** to the Panel

zeyu: Has pushed a new searching result about **Jimmy Page** to the Panel

Searching result sync through socket

## 2. Node JS Server

```
1 var express = require('express');
2 var router = express.Router();
3
4 var story = require('../controllers/stories');
5
6 /* GET home page. */
7 router.get('/', function(req, res) {
8   res.render('index', { title: 'Image Browsing', image: '' });
9 });
10
11 router.route('/index')
12   .get(function(req, res) {
13     res.render('index', { title: 'Image Browsing', image: '' });
14   })
15   .post(function(req, res) {
16     res.render('index', { title: 'Start your new Chat Room!', image: req.body.imageUrl });
17   });
18
19 //Main Page
20 router.route('/mainPage')
21   .get(function(req, res) {
22     res.render('mainPage', { title: "News Center" });
23   })
24   .post(story.getData);
25
26 //New Report
```

Router Configuration



## News Center


Welcome to the News Reports Center!

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

Get News

zeyu reported undefined at 2022-04-11T23:31:43.346Z

This is the first report




## News Center

Welcome to the News Reports Center!


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

Get News



tom reported Sheffield Report at 2022-04-12T10:41:54.750Z

This is the Sheffield report!



Dynamically Get new Reports

# Start your new Chat Room!

Please insert the id of the Room you want to Join, if you do not have a room id, click Generate Room

Your name

Your room

Image (URL)

Pass the parameters between Pages for convenience

### 3. Chat/Annotation Interface and Knowledge Graph

← → ↻ localhost:3000/index zeyu, you are in room: R9827

Report by zeyu on 2022/4/13

Click to Delete the Picture

Type: Person Set type

Search for: Brian May

of type: Person

**Brian May**  
Musician  
Brian Harold May CBE is an English musician, singer, songwriter, and astrophysicist who achieved ...  
Source: [Wikipedia](#), available under [License](#).

**Brian Mayes**  
American professional wrestler  
Brian Mayes is an American professional wrestler and promoter. He is currently signed to Impact W...  
Source: [Wikipedia](#), available under [License](#).

chat: Back to main Page

Click to Delete the Picture

Type: Person Set type

Search for: Brian May

of type: Person

**Brian May**  
id: /m/0bkg4

Report by zeyu on 2022/4/13

Click to Delete the Picture

Brain Harold May CBE is an English musician, singer, songwriter, and astrophysicist who achieved fame as lead guitarist of the rock band Queen. May was a co-founder of Queen with lead singer Freddie Mercury and drummer Roger Taylor. His songwriting contributions helped Queen become one of the most successful bands in rock history.  
May previously performed with Taylor in the band Smile, which he had joined while he was at university. After Queen's formation in 1970, bass player John Deacon joined to complete the line-up in 1971.  
[Link to Webpage](#)

zeyu: Has pushed a new searching result about **Brian May** to the Panel

zeyu: Brain May is one of my favorite Musician!

chat: He was the lead guitarist of the rock band | Send

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Screen shot of the Chat Room and Utilization of the Knowledge Graph

## =Features by Member 2 Kaihang Zhu=

### MongoDB

#### News Upload

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

Author name:

Title:

Report Text:

Image (URL) url:

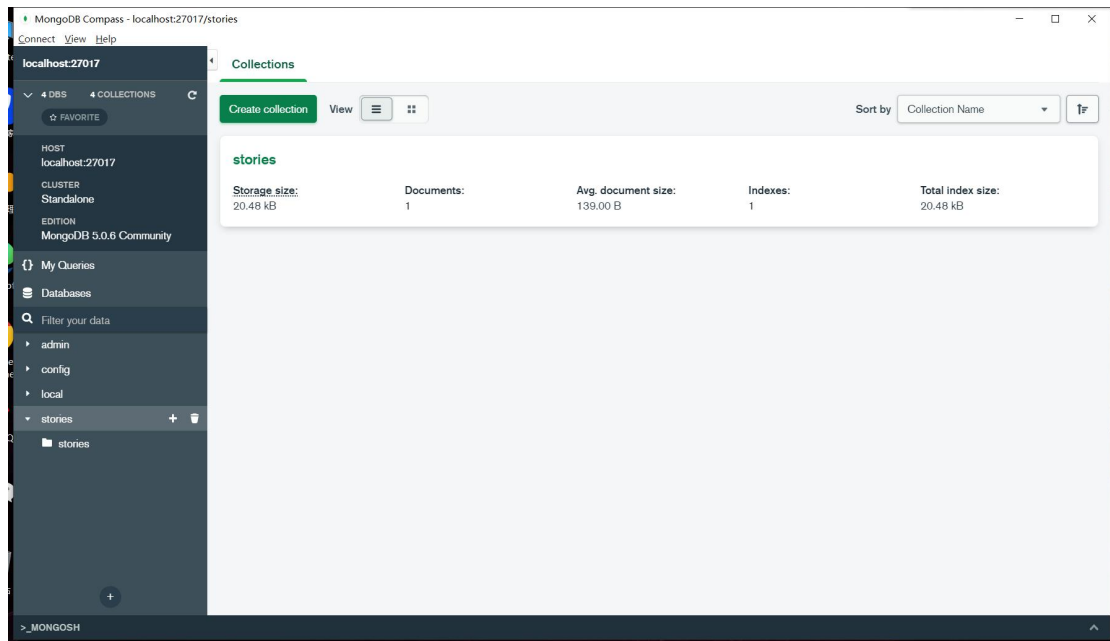
Store new story information into MongoDB database

localhost:3000 显示

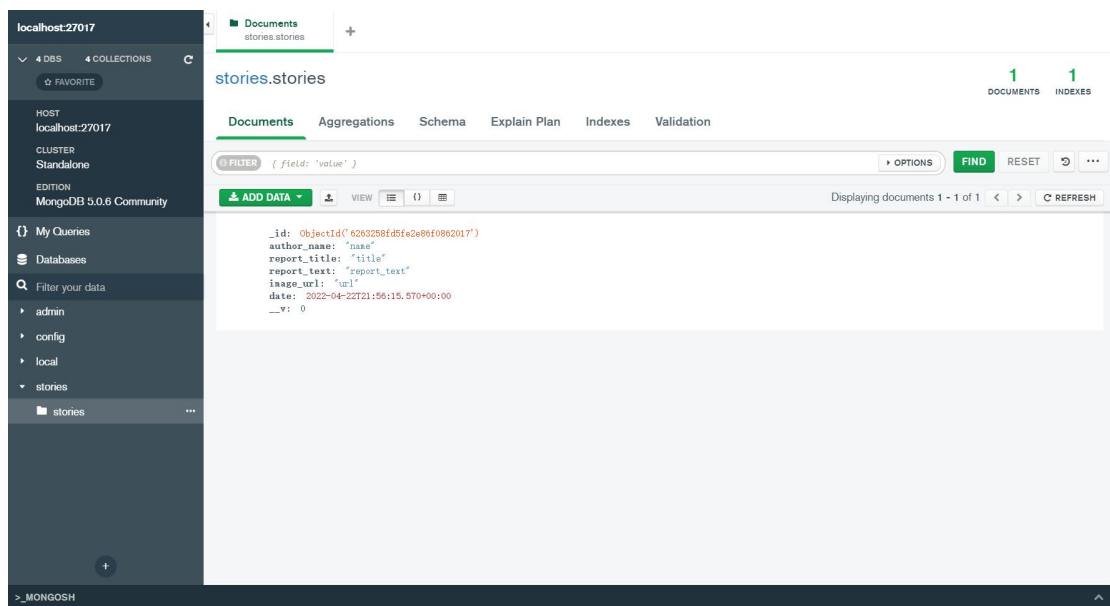
New report: title by Author name. Time:  
2022-04-22T21:56:15.570Z

确定

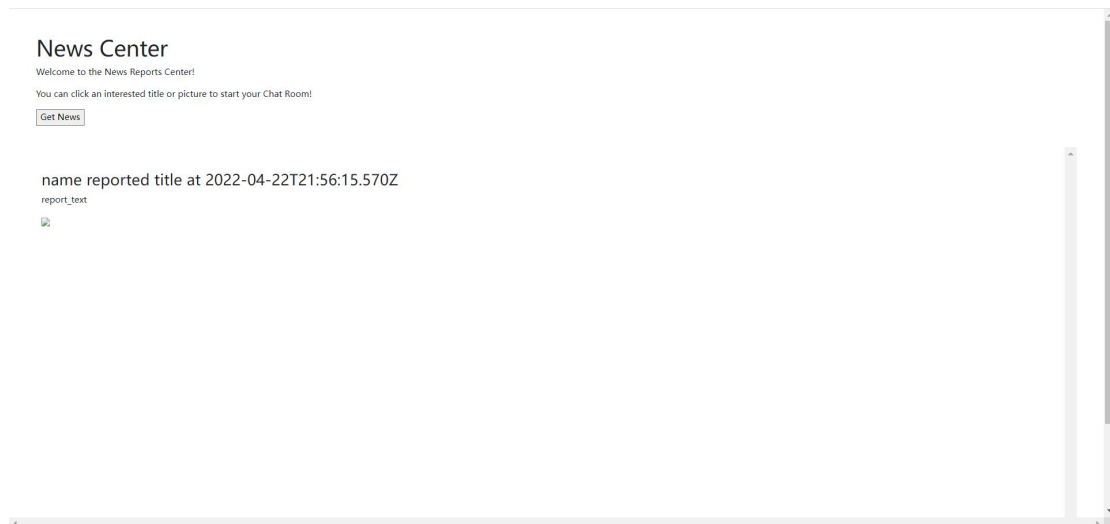
Notice of upload data successfully



A database named stories will be created if there is none



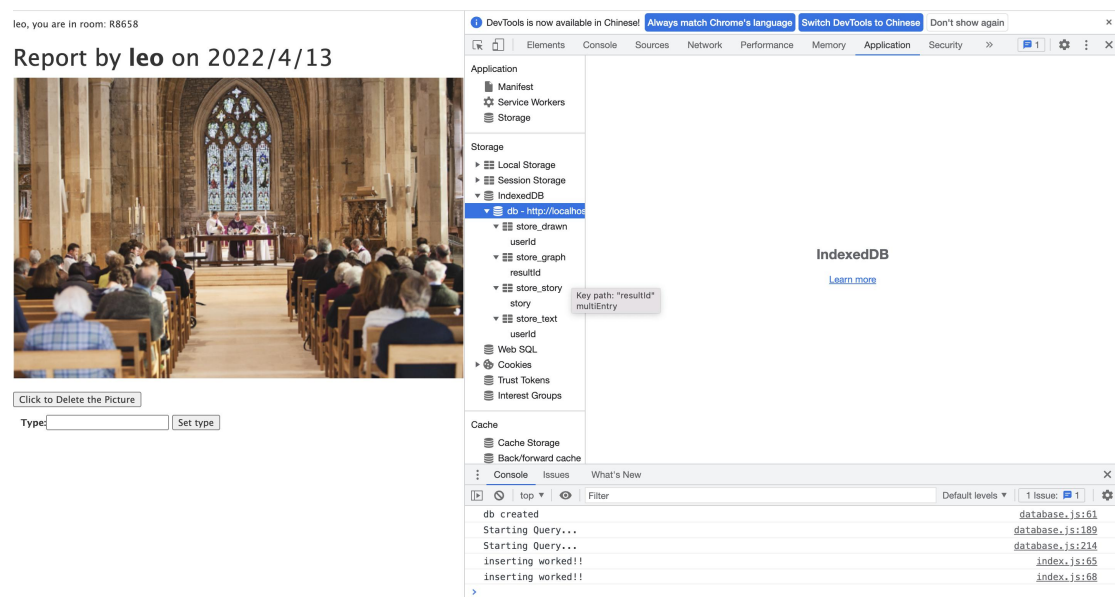
The data added into the database



Press “Get News” button to get stories

**=Features by Member 3 Lijia Liu=**

**IndexedDB**





## Report by leo on 2022/4/13



Click to Delete the Picture

Type:  Set type

leo: hello

chat:  Send

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Elements Console Sources Network Performance Memory Application Security >> 1

Application

Manifest Service Workers Storage

Storage

- Local Storage
- Session Storage
- IndexedDB
  - db - http://localhost:  
store\_drawn
    - userId
    - store\_graph
    - resultId
    - store\_story
    - story
    - store\_text
    - userId
- Web SQL
- Cookies
- Trust Tokens
- Interest Groups

Cache

- Cache Storage
- Back/forward cache

Total entries: 1 | Key generator value: 2

What's New

Filter

Default levels 1 Issue: 1

```
inserting worked!!
index.js:65
inserting: {"userId":"leo","text":"<b>leo:</b> hello"}
database.js:147
added item to the store! {"userId":"leo","text":"<b>leo:</b> hello"}
database.js:156
inserting worked!!
index.js:98
```

## Report by leo on 2022/4/13



Click to Delete the Picture

Type:  Set type

leo: hello

chat:  Send

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    - store\_text
    - userId
- Web SQL
- Cookies
- Trust Tokens
- Interest Groups

Cache

- Cache Storage
- Back/forward cache

Total entries: 138 | Key generator value: 139

What's New

Filter

Default levels 1 Issue: 1

```
ry":125,"color":"red","thickness":4}
canvas.js:152
inserting worked!!
database.js:175
added item to the store! {"room":"R8658","userId":"leo","width":587,"height":391.66385135135135,"prevX":245,"prevY":125,"curX":126,"color":"red","thickness":4}
canvas.js:152
inserting worked!!
canvas.js:152
```

The annotations have been cached

## News Upload

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

Author name:

Title:

Report Text:

Image (URL):

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Elements Console Sources Network Performance Memory Application >> 1 1

Application

Manifest Service Workers Storage

Storage

Local Storage Session Storage IndexedDB db - http://localhost:5173/ store\_drawn userid store\_graph resultid store\_story story store\_text userid Web SQL Cookies Trust Tokens Interest Groups

Cache

Cache Storage Back/forward cache

Total entries: 1 | Key generator value: 2

Console Issues What's New

Filter Default levels 1 Issue 1

inserting: {"name":"Leo","text":"web","image\_url":"/images/cathedral.jpg","date":"Wed Apr 13 2022 21:47:17 GMT+0100 (英国夏令时间)"} database.js:107

db created database.js:61


added item to the store! {"name":"Leo","text":"web","image\_url":"/images/cathedral.jpg","date":"Wed Apr 13 2022 21:47:17 GMT+0100 (英国夏令时间)"} database.js:116

inserting worked!! index.js:15


The whole story inclusive of image, text, title, etc have been cached

leo, you are in room: 88658

## Report by leo on 2022/4/13



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Elements Console Sources Network Performance Memory Application >> 1 1

Application

Manifest Service Workers Storage

Storage

Local Storage Session Storage IndexedDB db - http://localhost:5173/ store\_drawn userid store\_graph resultid store\_story story store\_text userid Web SQL Cookies Trust Tokens Interest Groups

Cache

Cache Storage Back/forward cache

Total entries: 2 | Key generator value: 3

Console Issues What's New

Filter Default levels 1 Issue 1


Raymond James Sr. is an American professional basketball player for the Los Angeles Lakers of the National Basketball Association. " resultUrl: "https://en.wikipedia.org/wiki/LeBron\_James", resultPanel: "block" database.js:136

added item to the store! {"resultId":"id: /m/01jz6d","resultName":"LeBron James", resultDescription: "LeBron Raymonte James Sr. is an American professional basketball player for the Los Angeles Lakers of the National Basketball Association. ", resultUrl: "https://en.wikipedia.org/wiki/LeBron\_James", resultPanel: "block"} database.js:136

inserting worked!! index.js:108

The Knowledge Graph have been cached

Report by leo on 2022/4/13



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Type:  Set type

leo: w

chat:  Send

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Elements Console Sources Network Performance Memory Application Security

Application

#	Key (Key path: "userId")	Primary key (Key path: "id")	Value
0	"leo"	1	{room: 'R8658', userId: 'l'}
1	"leo"	2	{room: 'R8658', userId: 'l'}
2	"leo"	3	{room: 'R8658', userId: 'l'}
3	"leo"	4	{room: 'R8658', userId: 'l'}
4	"leo"	5	{room: 'R8658', userId: 'l'}
5	"leo"	6	{room: 'R8658', userId: 'l'}
6	"leo"	7	{room: 'R8658', userId: 'l'}
7	"leo"	8	{room: 'R8658', userId: 'l'}
8	"leo"	9	{room: 'R8658', userId: 'l'}
9	"leo"	10	{room: 'R8658', userId: 'l'}
10	"leo"	11	{room: 'R8658', userId: 'l'}
11	"leo"	12	{room: 'R8658', userId: 'l'}
12	"leo"	13	{room: 'R8658', userId: 'l'}
13	"leo"	14	{room: 'R8658', userId: 'l'}
14	"leo"	15	{room: 'R8658', userId: 'l'}
15	"leo"	16	{room: 'R8658', userId: 'l'}
16	"leo"	17	{room: 'R8658', userId: 'l'}
17	"leo"	18	{room: 'R8658', userId: 'l'}
18	"leo"	19	{room: 'R8658', userId: 'l'}
19	"leo"	20	{room: 'R8658', userId: 'l'}
20	"leo"	21	{room: 'R8658', userId: 'l'}

Total entries: 259 | Key generator value: 260

Cache Storage Back/forward cache

Console Issues What's New

Filter Default levels 1 Issue

CanvasRenderingContext2D 587 391.66385135135135 306 132 307 132 'red' 4 database.js:224

CanvasRenderingContext2D 587 391.66385135135135 306 132 307 132 'red' 4 database.js:224

CanvasRenderingContext2D 587 391.66385135135135 306 132 307 132 'red' 4 database.js:224

CanvasRenderingContext2D 587 391.66385135135135 306 132 307 132 'red' 4 database.js:224

inserting worked!! index.js:68

When the user comes back to a story they have annotated, all the information above will be shown from the cache.