



## JavaEE Final Report

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The background features a black and white photograph of a large, multi-paned window with a dark metal frame. The window is partially obscured by a large white diagonal shape that cuts across the frame from the top left to the bottom right. In the bottom right corner, there is a bright yellow triangular shape pointing upwards and to the left.

**/01**

## **Project Introduction**

CoderHub

CoderHub aims at providing a **multi-functional** social platform for programmers.



# Management Backend

活动管理

招聘管理

文章管理

频道管理

专栏管理

文章管理

Dashboard / 文章管理 / 文章管理

标题

文章正文

是否公开

审核状态

所属频道

类型

查询

ID	专栏ID	用户ID	标题	发表日期	修改日期	是否公开	是否置顶	审核状态	所属频道	操作
1	1	1202209 2721764 47488	MySQL数据库总结	2019-11-13 19:42:23	2019-12-06 17:21:48	1	1	1	1	审核
10	1	1202209 2721764 47488	【Java面试官】史上最全的JAVA专业术语面试100问	2019-12-07 17:36:34	2019-11-26 17:37:34		1	1	3	审核
11	1	1202871 7028166 90176	Sprongboot启动activeMq(点对点模式)	2019-12-27 17:36:37	2019-12-03 17:37:32		0	1	3	审核



# /02

## Functionalities

6 modules

# User Frontend

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# Management Backend

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## Gathering Management

CURD



## Recruit Management

1. Enterprise management
2. Recruitment management



## Article Management

1. Article Review
2. Channel CURD
3. Column CURD&Review



# Demonstration



# /03

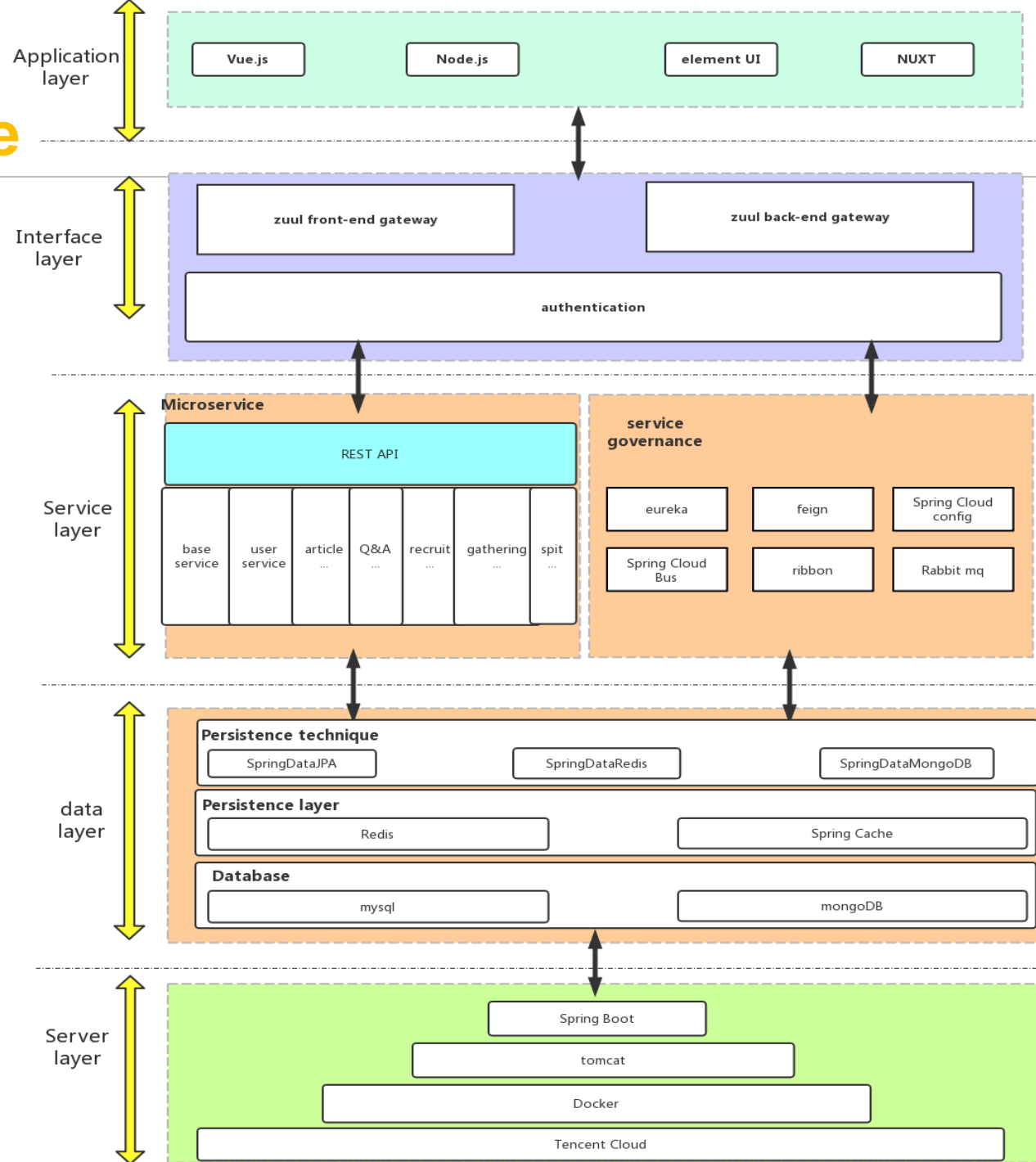
## Architecture and Database Design

server-side system architecture

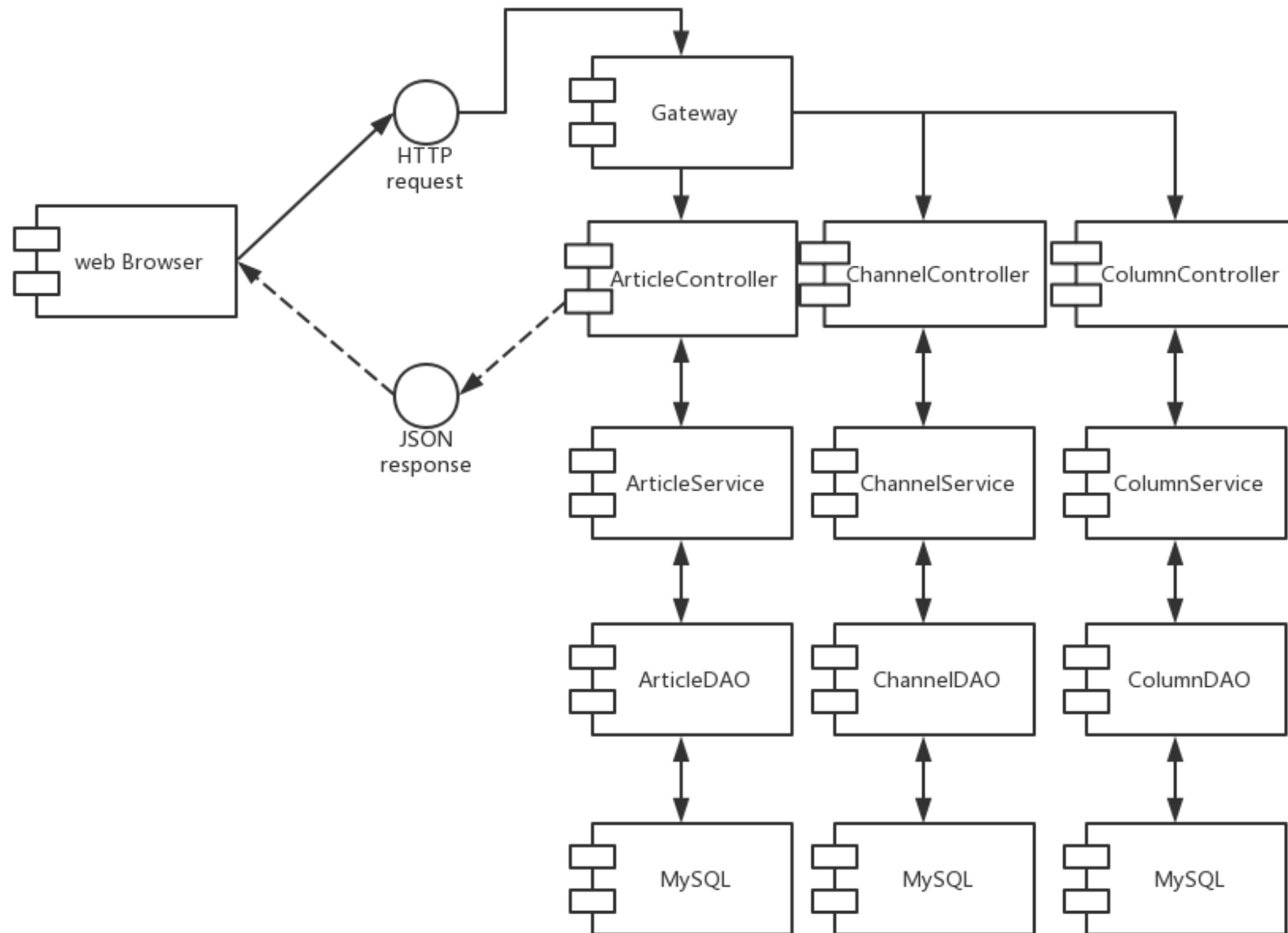
component design

database design

# Architecture



# Component Design



# Database Design

## 5.1 database:article

1. tb\_article

FIELD NAME	DATA TYPE	LENGTH	FIELD DESCRIPTION	NOTE
id	varchar	20	article id	primary key
columnid	varchar	20	column id	
title	varchar	100	article title	
content	text		article content	
image	varchar	100	article cover	
createtime	datetime		published date	
updatetime	datetime		updated date	
ispublic	varchar	1	is public	
istop	varchar	1	is top	
visits	int	20	page view	
thumbup	int	20	number of thumbup	
comment	int	20	number of comments	
state	varchar	1	is approved	
channelid	varchar	20	subordinate to which channel	



## 5.7 mongoDB:spit

1. collection:spitdb

FIELD NAME	FIELD DESCRIPTION	NOTE
_id	id	primary key
content	content	
nickname	nickname	
visits	number of visiting	
thumbup	number of thumbup	
share	number of being shared	
state	be approved	
parentid	parent id	

**/04**

Collaboration



# Collaboration

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## **Wei Nan**

1. Web Design
2. Q&A Microservice
3. Database Design



## **Fang Pei**

1. User Microservice
2. Article Microservice
3. Spit Microservice



## **Cai Zhendong**

1. Recruit Microservice
2. Front-end Gateway
3. Backend Gateway



## **Pu Jiarui**

1. Base Microservice
2. Gathering Microservice
3. Optimization

**/05**

Important issues





# Lack of Memory

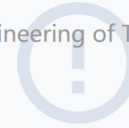


We bought a server on Tencent Cloud. But it only has 4G memory, which is not enough to run all the microservice. Everytime we run a new microservice, there is an old microservice to be stopped.



We install Swap on our server. It can turn 8G disk space into 8G virtual memory and we can run all the service together. Also, we merge some microservices, such as merging problem service and answer service into QA service.

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## Network Error

An error occurred while rendering the page. Check developer tools console for details.

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## Request failed with status code 500

An error occurred while rendering the page. Check developer tools console for details.

### NuxtServerError

## Request failed with status code 500

☐ Show all frames

events.js:111:20

emitNone

events.js:208:7

IncomingMessage.emit

\_stream\_readable.js:1064:12

endReadableNT

internal/process/next\_tick.js:138:11

\_combinedTickCallback

internal/process/next\_tick.js:218:9

process.\_tickDomainCallback

# Max\_allowed\_packe

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When we try to insert a long content, which is shorter than max length, into the database, it will go wrong.



We find that mysql will restrict the data that it received according to its configuration. If we reset max\_allowed\_packet, then we can insert that long content.

```
mysql> show variables like 'max_allowed_packet'
-> ;
+-----+-----+
| Variable_name | Value |
+-----+-----+
| max_allowed_packet | 4194304 |
+-----+-----+
1 row in set, 1 warning (0.04 sec)
```

**Thank  
you**