CoderHub

JavaEE Final Report

Wei Nan 1651701

Fang Pei 1651718

Cai Zhendong 1650527

Pu Jiarui 1651200

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Project Introduction

CoderHub

CoderHub

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

Management Backend

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	120220927217644748 8	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	120220927217644748 8	【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	120287170281669017 6	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

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Functionalities

6 modules

User Frontend

Management Backend

Gathering Management

CURD

Recruit Management

1.Enterprise management

2. Recruitment management

Article Management

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

Demonstration

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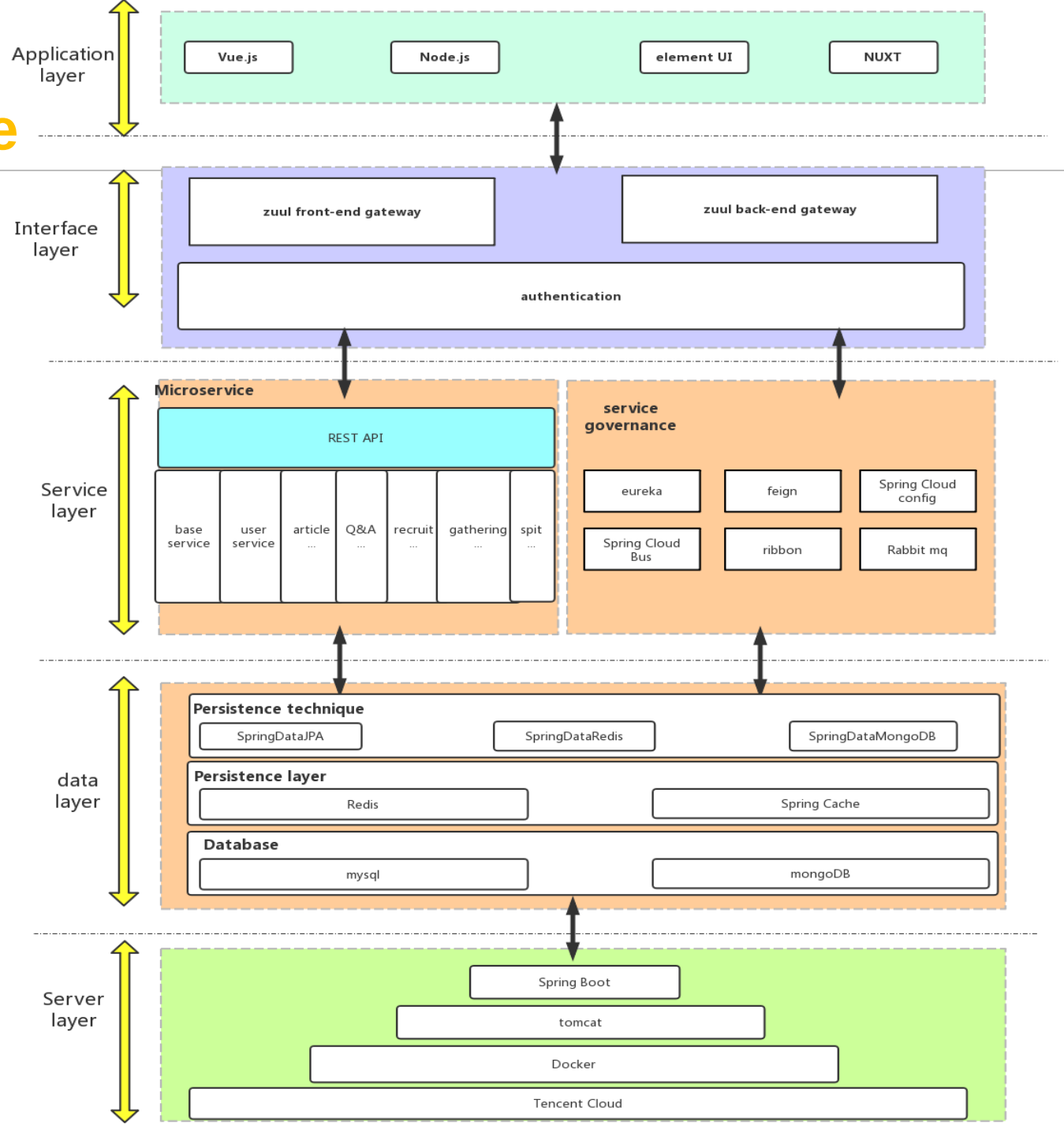
Architecture and Database Design

server-side system architecture

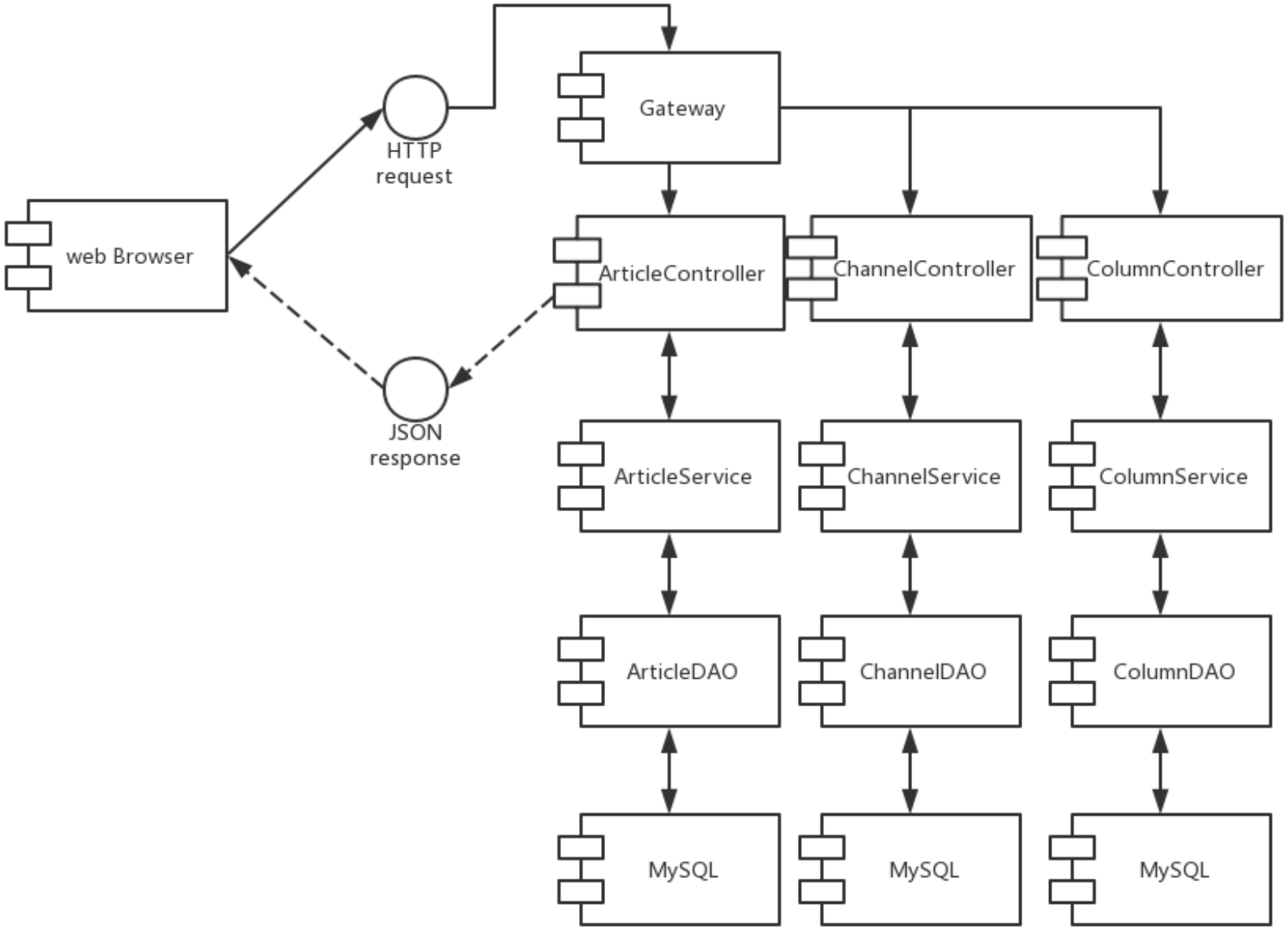
component design

database design

Architecture



Component Design

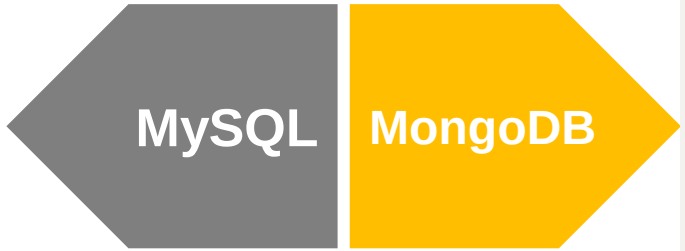


Database Design

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	

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Collaboration

Collaboration

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

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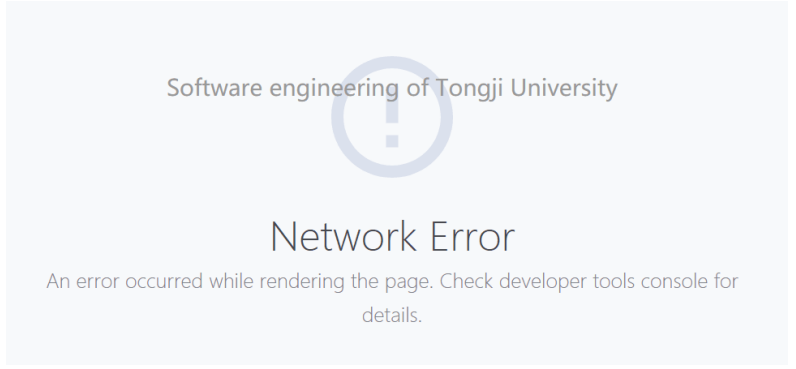
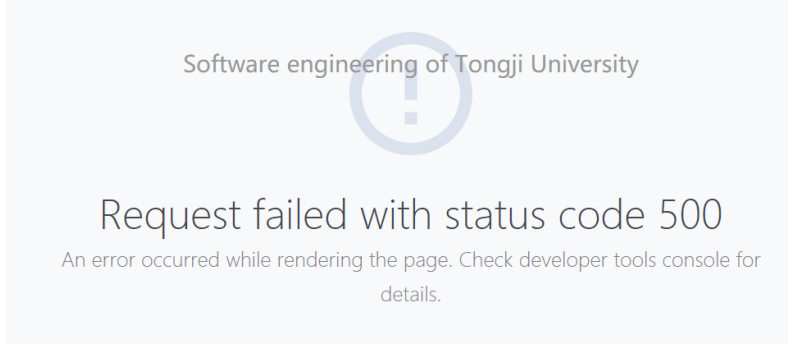
Important issues

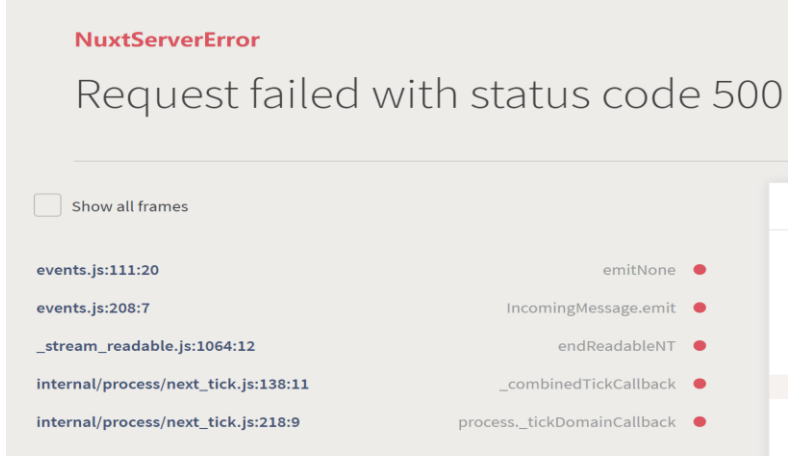
Lack of Memory

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.







Max_allowed_packe

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

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

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.

Thank you