```
link null
title: 珠峰架构师成长计划
description: db.js
keywords: null
author: null
date: null
publisher: 珠峰架构师成长计划
stats: paragraph=52 sentences=224, words=1537
```

1.抓取数据

```
const request=require('request-promise');
const cheerio=require('cheerio');
const debug=require('debug')('juejin:task:read');
```

```
exports.articleList=async function (uri) {
  debug('读取博文列表');
      let options={
           uri.
            transform: function (body) {
                 return cheerio.load(body):
      return request(options).then(async $ => {
           let articleList=[];
            let items =$('.item .title');
for (let i=0;ilet article=$(items[i]);
                  let h=0, inet article=>(items[i]),
let href = article.attr('href').trim();
let title=article.text().trim();
                  let itile=article.text().trim();
let id=href.match(/\/(\w+)$/)[1];
href='https://juejin.im'+href;
let articleDetail = await readArticle(id,href);
articleList.push({
                       href,
                        title,
                        content:articleDetail.content,
                        tags:articleDetail.tags
                   debug(`读取文章列表:${title}`);
            return articleList;
```

```
async function readArticle(id,uri) {
    debug('读取博文');
    let options={
        uri,
         transform: function (body) {
             return cheerio.load(body);
    return request(options).then($ => {
    let article=$('.main-container');
         let title=article.find('hl').text().trim();
         let content=article.find('.article-content').html();
        let tags=article.find('.tag-list-box>div.tag-list>a.item');
tags=tags.map((index,item) => {
             let href = $(item).attr('href');
             return href? href.slice(4):href;
         tags=Array.prototype.slice.call(tags);
         debug('读取文章详情:${title}');
return {
             id.
             title,
              content.
             tags
        };
```

```
let read = require('./read');
let write = require('./write');
(async function () {
    let tagUrl = 'https://juejin.im/subscribe/all';

    let tags = await read.tags(tagUrl);

    await write.tags(tags);
    let allAricles = {};

    for (tag of tags) {
        let articles = await read.articleList(tag.href);
            articles.forEach(article => allAricles[article.id] = article);
    }

    await write.articles(Object.values(allAricles));
    process.exit();
}) ()
```

2表结构

字段 类型 说明 id int(11) 标签名称 name varchar(255) 标签名称 image varchar(255) 标签图片 url varchar(255) url 地址 subscribe int(11) 订阅数 article int(11) 文章数

```
Field | Type
                   | Null | Key | Default | Extra
id
        | int(11)
                    | NO | PRI | NULL
                                        | auto increment |
        | varchar(255) | NO
                          | | NULL
        | varchar(255) | NO |
image
         | varchar(255) | NO |
                                  NULL
                  | YES |
subscribe | int(11)
                                NULL
                                NULL
article | int(11)
```

字段 类型 说明 id varchar(255) 文章ID title varchar(255) 文章名称 href varchar(255) 文章连接 content longtext 文章内容

字段 类型 说明 article_id varchar(255) 文章ID tag_id int(11) 标签ID

3. 写入数据库

db.js

crawl/task/write.js

```
const {query,end}=require('../db');
const debug=require('debug')('juejin:task:write');
```

```
exports.tagList=async function (tagList) {
    debug('保存文章标签列表');
    for (tag of tagList) {
        let oldTags=await query(`SELECT 1 FROM tags WHERE name=? LIMIT 1 `,[tag.name]);
        if (Array.isArray(oldTags)&&oldTags.length>0) {
            let oldTag=oldTags[0];
            await query(`UPDATE tags SET name=?,image=?,url=? WHERE id=?`,[tag.name,tag.image,tag.url,oldTag.id]);
        } else {
            await query(`INSERT INTO tags(name,image,url) VALUES(?,?,?)`,[tag.name,tag.image,tag.url]);
        }
    }
}
```

```
exports.articleList=async function (articleList) {
    debug("写人博文列表");
    debugger;
    for (article of articleList) {
        let oldArticles = await query(`SELECT 1 FROM articles WHERE id=? LIMIT 1 `,article.id);
        if (Array.isArray(oldArticles)&&oldArticles.length>0) {
            let oldArticle=oldArticles[0];
            await query(`UPDATE articles SET title=?,content=?,href=? WHERE id=?`,[article.title,article.content,article.href,oldArticle.id]);
        ) else {
            await query(`INSERT INTO articles(id,title,href,content) VALUES(?,?,?,?)`,[article.id,article.title,article.href,article.content]);
      }
      await query(`DELETE FROM article_tag WHERE article_id=? `,[article.id]);
      const where="(""+article.tags.join("","")+"")";
      const sql=`SELECT id FROM tags WHERE name IN ${where}`;
      let tagids = await query(sql);
      for (row of tagIds) {
            await query(`INSERT INTO article_tag(article_id,tag_id) VALUES(?,?)`,[article.id,row.id]);
      }
}
```

4. 建立web服务器查看数据

```
let express=require('express');
const path=require('path');
const {query}=require('../db');
const cronJob=require('cron').CronJob;
const debug=require('debug')('crawl:server');
const {spawn}=require('child_process');
let app=express();
app.set('view engine','html');
app.set('views', path.resolve('views'));
app.engine('html',require('ejs').__express);
 app.get('/',async function (req,res) {
    let {tagId}=req.query;
    let tags=await query(`SELECT * FROM tags`);
tagId=tagId||tags[0].id;
    let articles-await query(`SELECT a.* from articles a inner join article_tag t on a.id = t.article_id WHERE t.tag_id =? `,[tagId]);
    tags,articles
});
    res.render('index',{
app.get('/detail/:id',async function (req,res) {
    let id=req.params.id;
let articles = await query(`SELECT * FROM articles WHERE id=? `,[id]);
     res.render('detail', {article:articles[0]});
app.listen(8080);
let job=new CronJob('*/5 * * * *',function () {
    debug('开始执行定时任务');
    let update= spawn(process.execPath,[path.resolve(__dirname,'update/index.js')]);
    update.stdout.pipe(process.stdout);
update.stderr.pipe(process.stderr);
updaste.on('close',function (code) {
         console.log('更新任务,代码=%d',code);
    });
iob.start();
process.on('uncaughtException',function (err) {
    console.error('uncaughtException: %s',erro.stack);
```

```
<%- include header.html%>
<div class="container">
      <div class="row">
      <%=tag.name%>
         <%})%>
       ul>
      div>
      <div class="col-md-10">
         <%articles.forEach(article=>{%>
            <%=article.title%>
           li>
         <%})%>
       111>
    div>
<%- include footer.html%>
```

```
<html lang="en">
<head>
         <meta charset="UTF-8">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
         <meta http-equiv="X-UA-Compatible" content="ie=edge">
<link rel="stylesheet" href="https://cdn.bootcss.com/bootstrap/3.3.7/css/bootstrap.min.css" integrity="sha384-</pre>
BVYiiSIFeKldGmJRAkycuHAHRg32OmUcww7on3RYdg4Va+PmSTsz/K68vbdEjh4u" crossorigin="anonymous">
         <title>博客列表title>
head>
<body>
<nav class="navbar navbar-default">
    <div class="container-fluid">
                 <br/>

                       <span class="sr-only">Toggle navigationspan>
<span class="icon-bar">span>
                        <span class="icon-bar">span>
                        <span class="icon-bar">span>
                 <a class="navbar-brand" href="#">博客列表a>
           <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
                <a href="/">首页a>li>
                ul>
   div>
```

body> html>

5. 订阅发布

```
app.get('/login', async function (req, res) {
    res.render('login', { title: '登录' });
});
| );
app.post('/login', async function (req, res) {
    let { email } = req.body;
    let oldUsers = await query(`SELECT * FROM users WHERE email=?`, [email]);
    if (Array.isArray(oldUsers) && oldUsers.length > 0) {
         req.session.user = oldUsers[0];
res.redirect('/');
      else (
           let result = await query(`INSERT INTO users(email) VALUES(?)`, [email]);
           req.session.user =
               id: result.insertId,
                email
           res.redirect('/');
 });
app.get('/subscribe', async function (req, res) {
     let tags = await query('SELECT * FROM tags');
let user = req.session.user;
     let user = req.session.user;
let selectedTags = await query('SELECT tag_id from user_tag WHERE user_id = ?', [user.id]);
let selectTagIds = selectedTags.map(item => item['tag_id']);
     tags.forEach(item => {
   item.checked = selectTagIds.indexOf(item.id) != -1 ? 'true' : 'false';
     });
     res.render('subscribe', { title: '请订阅你感兴趣的标签', tags });
app.post('/subscribe', async function (req, res) {
     let { tags } = req.body;
let user = req.session.user;
     await query('DELETE FROM user_tag WHERE user_id=?', [user.id]);
for (let i = 0; i < tags.length; i++) {</pre>
          await query(`INSERT INTO user_tag(user_id,tag_id) VALUES(?,?)`, [user.id, parseInt(tags[i])])
     res.redirect('/');
```

String.fromCodePoint() 静态方法返回使用指定的代码点序列创建的字符串。

```
let str = 'Bj';
console.log(String.fromCodePoint('0x65F6'))
content = content.replace(//&#x(\w+?);/g, function (matched, point) {
    return String.fromCodePoint('0x${point}');
});
```