WEB服务端实验报告（一）

1. 分析搜索逻辑是由哪个服务链接或者页面完成，如果有多个请分别列出，并且将发送到服务器的数据以列表方式进行说明；

答：

**淘宝：**

（1）、服务链接：s.taobao.com/search

（2）、数据：

请求类型：GET

目标资源的URL：/search

URL参数：q=%E8%80%B3%E6%9C%BA&imgfile=&commend=all&ssid=s5-e&search\_type=item&sourceId=tb.index&spm=a21bo.2017.201856-taobao-item.1&ie=utf8&initiative\_id=tbindexz\_20170306

q=%E8%80%B3%E6%9C%BA：表示商品的名字，查询关键词（例：耳机）

imgfile=：图片文件

commend=all：表示显示所有tab

ssid=s5-e：店铺id

search\_type=item：搜索类型

sourceId=tb.index：来源的名字是tb.index

spm=a21bo.2017.201856-taobao-item.1：表示点击来源

ie=utf8：ie内核使用utf8编码

initiative\_id=tbindexz\_20170306：内部参数，显示控制方式

标识协议版本的字符串：https

Cookie：thw=cn; cna=sv3eE9DzpT4CAXWVapr3jbqo; t=d1deb3a6823f3955690ced1f297160f0; uc3=id2=UNN0kKy25%2FJenw%3D%3D&vt3=F8dByuPYmerFrBgVUk8%3D&lg2=WqG3DMC9VAQiUQ%3D%3D&nk2=F6k3HSxp5ZWdAGztC4pzX5z64CE%3D; lgc=t\_1504869885639\_0151; uc4=nk4=0%40FbMocxnO4gdsk8tLyz858ujhKXWicP%2BEvYdv%2FnpV3w%3D%3D&id4=0%40UgQ8exqrTQyC%2FADao%2BSFsGai2QbP; tracknick=t\_1504869885639\_0151; \_cc\_=VFC%2FuZ9ajQ%3D%3D; tg=0; enc=%2BQqV0xINpYEbw06NdaJvR3reB2jXfpFOEXrIQu8P3N3q3EsxjF2vAWvDzDDK0YL%2F09YgplS7oH2lnlPCpMmXLw%3D%3D; mt=ci=0\_1; hng=CN%7Czh-CN%7CCNY%7C156; UM\_distinctid=16cfa3c86e818c-0d77b42c5ba678-3c375c0f-100200-16cfa3c86ea325; x=e%3D1%26p%3D\*%26s%3D0%26c%3D0%26f%3D0%26g%3D0%26t%3D0%26\_\_ll%3D-1%26\_ato%3D0; v=0; uc1=cookie14=UoTaECdJktIpxw%3D%3D; cookie2=52681b7afccabeeb7a79e150449c41eb; \_tb\_token\_=e3eb4d3b9e13e; isg=BLy8xorqzTjugvj1EiozxBnzjVrCp1ql7efLbZY4AqeKYV\_rv8UwbzKnRYkZKZg3; l=cBTJdmfuqy8IVLBFBOfw-urza77TECdf1sPzaNbMiICP9N195vRdWZUos78pCnGVp6jHJ3z29KKbBeYBqZjtHxomIosM\_

浏览器（User-Agent）：Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36

可接受压缩信息（Accept-Encoding）：gzip, deflate, br

可接受的具体编码类型（Accept-Charset）：ext/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3

可接受的语言：zh-CN,zh;q=0.9

**京东：**

（1）、服务链接：search.jd.com/Search

（2）、数据：

请求类型：GET

目标资源的URL：/Search

URL参数：keyword=%E8%80%B3%E6%9C%BA&enc=utf-8&pvid=93f05889ebf24849a0ad1270eabb79f8

keyword=%E8%80%B3%E6%9C%BA:搜索的关键字

enc=utf-8：使用utf8编码格式

pvid=93f05889ebf24849a0ad1270eabb79f8：表示商品单品的点击量

标识协议版本的字符串：https

Cookie：\_\_jdu=123902125; shshshfpa=d689adb7-aa39-e59a-25bb-c90b65294a12-1552186779; areaId=15; ipLoc-djd=15-1213-1214-0; PCSYCityID=CN\_330000\_330100\_330110; shshshfpb=cB6NtUZj7QM21fnhUtVd4pQ%3D%3D; cn=0; user-key=f0063fa0-9d29-45c7-a420-522bbc5259fd; xtest=2236.cf6b6759; qrsc=1; unpl=V2\_ZzNtbRAERxQgWxIDeBAJAGJQEAlLV0pFclgUXXhLDlY3UBQIclRCFX0UR1xnGV0UZwsZXURcQBBFCEdkeBBVAWMDE1VGZxBFLV0CFSNGF1wjU00zQwBBQHcJFF0uSgwDYgcaDhFTQEJ2XBVQL0oMDDdRFAhyZ0AVRQhHZHsaXg1mABJeRmdzEkU4dl19HlsFYzMTbUNnAUEpAUVWchFaSGcAEFVDVEMWcThHZHg%3d; \_\_jda=76161171.123902125.1537885231.1567566951.1568114246.6; \_\_jdb=76161171.1.123902125|6.1568114246; \_\_jdc=76161171; \_\_jdv=76161171|baidu-pinzhuan|t\_288551095\_baidupinzhuan|cpc|0f3d30c8dba7459bb52f2eb5eba8ac7d\_0\_cb50dbef28d44b3e818a6ac82ccbab7d|1568114245642; shshshfp=84fc4e9d5cca25aa05b0e206cf779d85; shshshsID=05ed6f0bdd33d1835abb6f6d80e32691\_1\_1568114247299

浏览器（User-Agent）：Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/76.0.3809.132 Safari/537.36

可接受压缩信息（Accept-Encoding）：gzip, deflate, br

可接受的具体编码类型（Accept-Charset）：ext/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,\*/\*;q=0.8,application/signed-exchange;v=b3

可接受的语言：zh-CN,zh;q=0.9

1. 分析服务器的响应结果，数据的格式、数据的类型以及呈现方式；

答：

**淘宝：**

（1）、响应结果：200，请求成功。

（2）、数据格式：text/html

（3）、数据类型：Doc

（4）、呈现方式：Doc中有三个响应结果：

1）、<https://s.taobao.com/search?q=%E8%80%B3%E6%9C%BA&imgfile=&commend=all&ssid=s5-e&search_type=item&sourceId=tb.index&spm=a21bo.2017.201856-taobao-item.1&ie=utf8&initiative_id=tbindexz_20170306>

2）、

<https://www.taobao.com/markets/search/search-suggest-history-iframe>

3）、

<https://g.alicdn.com/alilog/oneplus/blk.html>

**京东**：

（1）、响应结果：200，请求成功。

（2）、数据格式：text/html;charset=UTF-8

（3）、数据类型： Doc和XHR

（4）、呈现方式：

Doc：<https://search.jd.com/Search?keyword=%E8%80%B3%E6%9C%BA&enc=utf-8&wq=%E8%80%B3%E6%9C%BA&pvid=31e8b5bec46d4ff792f412c6f78594c6>

XHR：

1）、<https://search.jd.com/im.php?r=357777445&t=1570521301.5345&cs=3f13f4aae430ee3c97d1e572b36c22a4>

2）、

<https://blackhole.m.jd.com/getinfo>

3）、

<https://blackhole.m.jd.com/getinfo>

4）、

<https://search.jd.com/attrlog.php>

5）、

[https://gia.jd.com/fcf.html?a=7TJI7TceW0Pu7Tce7TZ37Tce7Tce7T7L7TcezlP47Tce7TZ37Tce7Tce7T7L7TceWIAewGAB6SAewdwPwHcPw4wPwH7QWIAewGAB6SAewH4DOL7bZlceZlikZBwDiQ6EOgRbiQcxZgAxFgAlOLaE7Tce7T7L7TceJGAewGAB6SAewHcuZIDxwIDx7Tce7T7L7TceFGAewGAB6SAewH%3CPwHcPw4wPwH7X7Tce7TZ37TceWlfbWQZovQp4vQZXzSAeRPZPih7HyIAewGAe6eAewdNB7Tce7TZ37TceylfEJl9eFIABRIAeZAAD7TckOL2PwHfIweAeZAAl7TckOAwPwHfI6SAeZQfuieABR1fjFGjD7TclJt%3CPwj6PwHfNOIAeZTa\*7Tck6HwPwHfNZGAeZTPL7Tck64%3CPwHF\*JQP47TZ%3CwBNPO0ckiQfHZLF4Z0FQZB4eFH6xwQwlFHWDZT4jiBiPwHcPw4wPwH7QieAewGAB6SAewP7ARffLwjJ5ZAFZ6Aki6Hf%3CAjJyTjZTZA7NSACZRkF06AwkgANSR49Tf%3CNyA%3CfK6ACKw4C1fA4BSkpcSjZfR%3CNRANf0fjZ%3CZf%3CtZkb3AL7ZTkNifjNASPbTTSAewGAe6eAewd6PwHcPwj%3CPwH7if%3CNhTAZOwHFcT4ZvZfZyfjCTw49hZ4JOTj9STAfvS%3CP0ZkF7g%3CZ66jkiZNABfTFif4xS6A%3CjfjE7ZAbSTk3fAL7AAPN0Tk3ySNRZAeAewGAe6eAewdNp7Tce7TZ37Tce7Tce7TJ%3C/](https://gia.jd.com/fcf.html?a=7TJI7TceW0Pu7Tce7TZ37Tce7Tce7T7L7TcezlP47Tce7TZ37Tce7Tce7T7L7TceWIAewGAB6SAewdwPwHcPw4wPwH7QWIAewGAB6SAewH4DOL7bZlceZlikZBwDiQ6EOgRbiQcxZgAxFgAlOLaE7Tce7T7L7TceJGAewGAB6SAewHcuZIDxwIDx7Tce7T7L7TceFGAewGAB6SAewH%3CPwHcPw4wPwH7X7Tce7TZ37TceWlfbWQZovQp4vQZXzSAeRPZPih7HyIAewGAe6eAewdNB7Tce7TZ37TceylfEJl9eFIABRIAeZAAD7TckOL2PwHfIweAeZAAl7TckOAwPwHfI6SAeZQfuieABR1fjFGjD7TclJt%3CPwj6PwHfNOIAeZTa*7Tck6HwPwHfNZGAeZTPL7Tck64%3CPwHF*JQP47TZ%3CwBNPO0ckiQfHZLF4Z0FQZB4eFH6xwQwlFHWDZT4jiBiPwHcPw4wPwH7QieAewGAB6SAewP7ARffLwjJ5ZAFZ6Aki6Hf%3CAjJyTjZTZA7NSACZRkF06AwkgANSR49Tf%3CNyA%3CfK6ACKw4C1fA4BSkpcSjZfR%3CNRANf0fjZ%3CZf%3CtZkb3AL7ZTkNifjNASPbTTSAewGAe6eAewd6PwHcPwj%3CPwH7if%3CNhTAZOwHFcT4ZvZfZyfjCTw49hZ4JOTj9STAfvS%3CP0ZkF7g%3CZ66jkiZNABfTFif4xS6A%3CjfjE7ZAbSTk3fAL7AAPN0Tk3ySNRZAeAewGAe6eAewdNp7Tce7TZ37Tce7Tce7TJ%3C/)

1. 对比淘宝和京东搜索功能的数据结构，请说明它们的区别和特点；

答：

**淘宝**：jsonp

jsonp808({,…})

magic: [{index: "1", type: "tag\_group", data: [[{title: "小米"}, {title: "MIUI/小米", type: "hot"}],…]},…]

0: {index: "1", type: "tag\_group", data: [[{title: "小米"}, {title: "MIUI/小米", type: "hot"}],…]}

1: {index: "2", type: "tag\_group",…}

2: {index: "9", type: "tag\_group",…}

result: [["耳机入耳式", "4923599.972171796"], ["耳机蓝牙", "418971.8350204727"], ["耳机套", "383660.038276726"],…]

0: ["耳机入耳式", "4923599.972171796"]

1: ["耳机蓝牙", "418971.8350204727"]

2: ["耳机套", "383660.038276726"]

3: ["耳机套 airpods", "231811.22075389948"]

4: ["耳机头戴式", "100307.60954665819"]

5: ["耳机壳", "211758.1676032468"]

6: ["耳机保护套", "342769.3700714256"]

7: ["耳机壳 airpods", "197511.76342394968"]

8: ["耳机无线", "393299.0096770738"]

9: ["耳机保护套airpods", "207080.07492323438"]

**京东**：jquery

jQuery2202588([{key: "耳机蓝牙", qre: "612781"}, {key: "耳机 plus尊享", qre: "9172"}, {key: "耳机有线", qre: "199917"},…])

0: {key: "耳机蓝牙", qre: "612781"}

1: {key: "耳机 plus尊享", qre: "9172"}

2: {key: "耳机有线", qre: "199917"}

3: {key: "耳机头戴式", qre: "135855"}

4: {key: "耳机无线", qre: "496139"}

5: {key: "耳机自营", qre: "8945"}

6: {key: "耳机苹果", qre: "513930"}

7: {key: "耳机华为", qre: "13122"}

8: {key: "耳机电脑", qre: "196967"}

9: {key: "耳机入耳式", qre: "301446"}

10: {key: "耳机带麦", qre: "198372"}

11: {key: "耳机骨传导", qre: "15317"}

12: {key: "耳机蓝牙运动", qre: "282510"}

13: {version: "V12--12s0,20s0,38s0,97s0"}

淘宝的搜索功能的数据结构比京东的数据结构更为复杂，淘宝不仅有京东的result块，还有京东没有的magic块，其中result中的数据结构基本为：商品名+参数。而在淘宝的magic中，有index，type，data，title等参数构成。

淘宝的特点：分块更为明确，magic+result，搜索更为精确。

京东的特点：数据结构清晰，大体都是key+qre