



localhost:8082/community/index



NowCoder. Homepage Sign up Sign in Search

Latest Hottest orderMode

我是管理员 Top Highlight nowcoder11 posted on 2019-05-16 12:58:44 Like 0 | Replies 12

public Top yy posted on 2019-04-25 09:22:16 Like 0 | Replies 2

玄学帖 Top aaa posted on 2019-04-13 11:54:04 Like 1 | Replies 18

How do you ensure persistence in Redis? xxx posted on 2025-06-12 09:33:20 Like 0 | Replies 0

How does Redis differ from traditional databases like MySQL? xxx posted on 2025-06-12 09:24:42 Like 0 | Replies 0

First Previous 1 2 3 Next Last Click

localhost:8082/community/index?orderMode=1&current=2

page.setCurrent(2)  
offset = (current - 1) \* limit

点击 → 变更url(后拼接了id) → 再次执行该url对应的函数。

```
@RequestMapping(path = "/index", method = RequestMethod.GET)
public String getIndexPage(Model model, Page page,
@RequestParam(name = "orderMode", defaultValue = "0") int orderMode) {
```

```
List<DiscussPost> list = discussPostService
    .findDiscussPosts(0, page.getOffset(), page.getLimit(), orderMode);
```

userId postid

user likeCount + post

```
List<Map<String, Object>> discussPosts
```



```
model.addAttribute("discussPosts", discussPosts);
model.addAttribute("orderMode", orderMode);
```

→ Style active?  
[Latest](#)

public class Page

```
page.setRows(discussPostService.findDiscussPostRows(0));
page.setPath("/index?orderMode=" + orderMode);
```

```
return "/index";
```

@RequestMapping("/discuss")

public class DiscussPostController implements CommunityConstant {

@RequestMapping(path = "/detail/{discussPostId}", method = RequestMethod.GET)

public String getDiscussPost(@PathVariable("discussPostId") int discussPostId, Model model, Page page) {

DiscussPost post = discussPostService.findDiscussPostById(discussPostId);
model.addAttribute("post", post);

User user = userService.findUserById(post.getUserId());
model.addAttribute("user", user);

List<Comment> commentList = commentService.findCommentsByEntity(
 ENTITY\_TYPE\_POST, post.getId(),
 page.getOffset(), page.getLimit());

CommentVoList → "Comment":

"user":

"likeCount":

"likeStatus":

"replies":

"replyCount":

→ replyVoList →

"reply":

"User":

"target":

"likeCount":

"likeStatus":

model.addAttribute("comments", commentVoList);

return "/site/discuss-detail";

DiscussPostController

NowCoder. Homepage Sign up Sign in Search

Spring Cache nluke posted on 2019-05-17 11:06:54 Likes 0 | Comments 38

Spring Cache RedisCacheManager

38 Comments

aaa 111 posted on 2019-05-17 11:07:11 Like(0) | Replies(0)

Reply

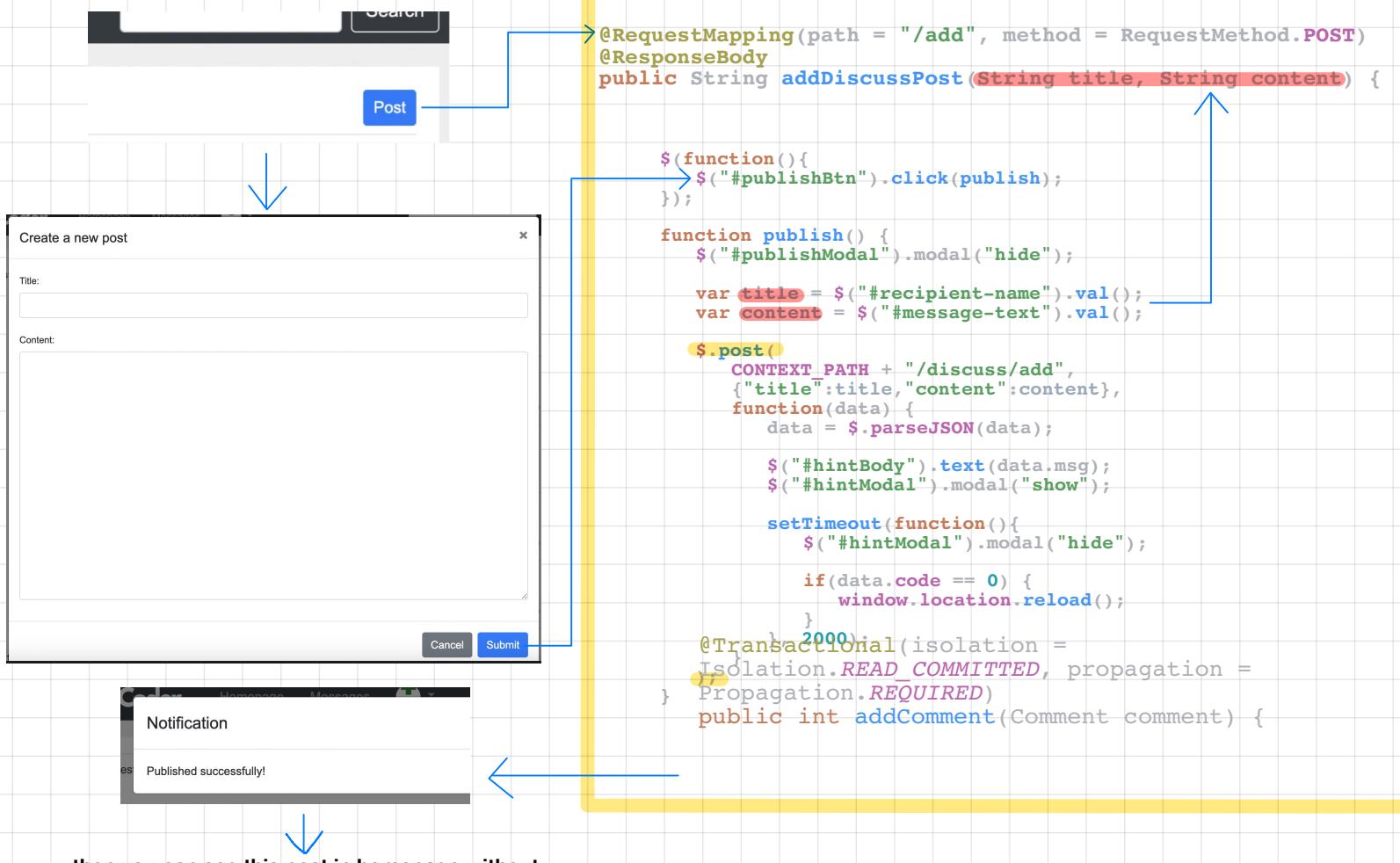
### Comments

id	user_id	entity_type	entity_id	target_id	content	status	create_time
232	159	1	post	281	0	NIHAO	0 2025-04-01 22:25:45
233	159	2	comment	232	0	HAHA	0 2025-04-01 22:25:52

in a comment,  
reply to whom? (userId)

offset → the row number (start)

limit



then you can see this post in homepage without reloading/refreshing the page

The screenshot shows the NowCoder homepage with a comment section:

- Header:** NowCoder. Homepage, Sign up, Sign in, Search bar.
- Comment Section:** A form with a reply input field, a reply button, and a "Comment" button.
- Table:** A table with columns: id, user\_id, title, content, type, status, create\_time, comment\_count, score.
- Form:** A form at the bottom with the action attribute set to @{/comment/add/\${post.id}}.

```

@RequestMapping(path = "/add/{discussPostId}", method = RequestMethod.POST)
public String addComment(@PathVariable("discussPostId") int discussPostId, Comment comment) {
    commentService.addComment(comment);

    Declarative Transaction Management → Either all succeed or all roll back
    @Transactional(isolation = Isolation.READ_COMMITTED,
    propagation = Propagation.REQUIRED)
    public int addComment(Comment comment) {
        comment.setContent(HtmlUtils.htmlEscape(comment.getContent()));
        comment.setContent(sensitiveFilter.filter(comment.getContent()));
        int rows = commentMapper.insertComment(comment);

        if (comment.getEntityType() == ENTITY_TYPE_POST) {
            int count =
            commentMapper.selectCountByEntity(comment.getEntityType(),
            comment.getEntityId());
            discussPostService.updateCommentCount(comment.getEntityId(),
            count);
        }

        return rows;
    }
}

```

id	user_id	title	content	type	status	create_time	comment_count	score
277	149	Spring Cache	Spring Cache Redi...	0	0	2019-05-17 11:06:54	38	1752.57...

```

<a href="javascript:;" th:onclick="| like(this,1,${post.id}, ${post.userId}, ${post.id}); |" class="text-primary">
  <b th:text="${likeStatus==1?'Liked':'Likes'}>Likes</b> <i th:text="${likeCount}">0</i>
</a>

function like(btn, entityType, entityId, entityUserId, postId) {
  $.post(
    CONTEXT_PATH + "/like",
    {"entityType":entityType, "entityId":entityId, "entityUserId":entityUserId, "postId":postId},
    function(data) {
      data = $.parseJSON(data);
      if(data.code == 0) {
        $(btn).children("i").text(data.likeCount);
        $(btn).children("b").text(data.likeStatus==1?'Liked':'Like');
      } else {
        alert(data.msg);
      }
    }
  );
}

@Controller
public class LikeController implements CommunityConstant {
  @Autowired
  private RedisTemplate redisTemplate;

  @RequestMapping(path = "/like", method = RequestMethod.POST)
  @ResponseBody
  public String like(int entityType, int entityId, int entityUserId, int
  postId) {
    likeService.like(user.getId(), entityType, entityId, entityUserId);

    long likeCount = likeService.findEntityLikeCount(entityType, entityId);
    int likeStatus = likeService.findEntityLikeStatus(user.getId(), entityType,
    entityId);

    Map<String, Object> map = new HashMap<>();
    map.put("likeCount", likeCount);
    map.put("likeStatus", likeStatus);

    return CommunityUtil.getJSONString(0, null, map);
  }
}

public class LikeService {
  @Autowired
  private RedisTemplate redisTemplate;

  public void like(int userId, int entityType, int entityId, int entityUserId) {
    redisTemplate.execute(new SessionCallback(){
      @Override
      public Object execute(RedisOperations operations) throws DataAccessException {
        like:entity:1:13
        String entityLikeKey = RedisKeyUtil.getEntityLikeKey(entityType, entityId);
        String userLikeKey = RedisKeyUtil.getUserLikeKey(entityUserId);
        boolean isMember = redisTemplate.opsForSet().isMember(entityLikeKey, userId);
        operations.multi();
        if (isMember) {
          redisTemplate.opsForSet().remove(entityLikeKey, userId);
          redisTemplate.opsForValue().decrement(userLikeKey);
        } else{
          redisTemplate.opsForSet().add(entityLikeKey, userId);
          redisTemplate.opsForValue().increment(userLikeKey);
        }
        return operations.exec();
      }
    });
  }
}

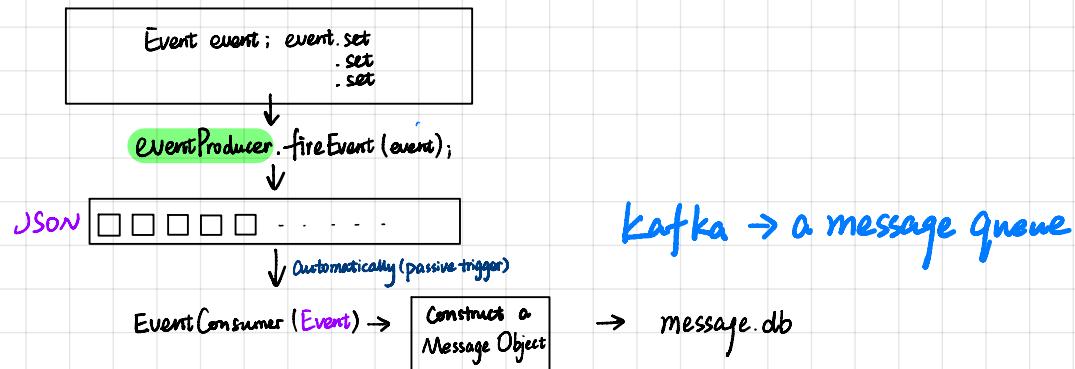
```

**Redis Transaction Management**

If this user in the value  $\rightarrow$  liked exists

集中是否被设置

comment, like, follow → CommentController LikeController FollowController



id	from_id	to_id	conversation_id	content	status	create_time
202	1	145	like	{"entityType":1,"entityId":273,"postId":273,"userId":111}	1	2019-04-28 12:56:03
203	1	145	comment	{"entityType":1,"entityId":273,"postId":273,"userId":111}	1	2019-04-28 12:56:14
204	1	145	follow	{"entityType":3,"entityId":145,"userId":111}	1	2019-04-28 12:56:18
205	1	111	comment	{"entityType":1,"entityId":272,"postId":272,"userId":145}	1	2019-05-06 05:37:28
206	145	111	111_145	hello	1	2019-05-06 05:37:39

```

String content = HtmlUtils.htmlUnescape(message.getContent());
Map<String, Object> data = JSONObject.parseObject(content, HashMap.class);

messageVO.put("user", userService.findUserById((Integer) data.get("userId")));
messageVO.put("entityType", data.get("entityType"));
messageVO.put("entityId", data.get("entityId"));
messageVO.put("postId", data.get("postId"));
    
```

A screenshot of the NowCoder application's notification list page. It shows three types of notifications: Comment, Like, and Follow. Each notification includes a timestamp, a count of conversations, and a link to view more details.

```

<a th:href="@{/notice/list}">
@RequestMapping(path = "/notice/list", method =
RequestMethod.GET)
public String getNoticeList(Model model) {
    User user = hostHolder.getUser();

    Message message = messageService.findLatestNotice(user.getId());
    int count = messageService.findNoticeCount(user.getId(), TOPIC);
    messageVO.put("count", count);

    int unread = messageService.findNoticeUnreadCount(user.getId());
    messageVO.put("unread", unread);
}
    
```

messageVO

```

{
    "message": {
        "id": 202,
        "fromId": 1,
        "toId": 145,
        "conversationId": "comment",
        "content": "{\"entityType\":1,\"entityId\":273,\"postId\":273,\"userId\":111}",
        "status": 1,
        "createTime": "2019-06-11T10:00:00"
    },
    "user": {
        "id": 111,
        "username": "nowcoder111",
        "headerUrl": "/images/profile111.png"
    },
    "entityType": 1,
    "entityId": 273,
    "postId": 273,
    "count": 1,
    "unread": 1
}
    
```

```
model.addAttribute("commentNotice", messageVO);
```

A screenshot of the NowCoder application's system notification list. It shows three notifications from the SYSTEM account, each detailing a comment made by a user named 'xxx'.

localhost:8082/community/search?keyword=spring

NowCoder. Homepage Sign up Sign in

spring Search

→ th:action="@{/search}"

Related Posts

**Spring Cache**  
Spring Cache RedisCacheManager  
niuke posted on 2019-05-17 11:06:54 Likes 0 | Replies 39

**Spring Boot整合Elasticsearch**  
Elasticsearch是一款分布式搜索引擎框架  
aaa posted on 2019-04-17 10:27:58 Likes 1 | Replies 1

First Previous 1 Next Last

## ElasticSearch

① data: MySQL → es

→ entity/DiscussPost

```
@Document(indexName = "discusspost")
public class DiscussPost{
    @Field(type = FieldType.Text,
    analyzer = "ik_max_word",
    searchAnalyzer = "ik_smart")
    private String title;
}
```

table and fields mapping

→ Services/ElasticsearchService

CRUD functions

```
public void saveDiscussPost(DiscussPost post) {
    public void deleteDiscussPost(int id) {
        public Map<String, Object>
        searchDiscussPost(String keyword, int current,
        int limit) throws IOException {
```

② Search the "keyword" in es

SearchController

```
↳ ElasticsearchService → Map<String, Object> searchDiscussPost(keyword)
↓
↳ List<DiscussPost>
Search.html
```

↳ dao/elasticsearch/DiscussPostRepository

extends ElasticsearchRepository

→ when add a post,

MySQL → Kafka → es

DiscussPostController (EventProducer)

```
Event event = new Event()
    .setTopic(TOPIC_PUBLISH)
    .setUserId(user.getId())
    .setEntityType(ENTITY_TYPE_POST)
    .setEntityId(post.getId());
eventProducer.fireEvent(event);
```

EventConsumer (@kafkaListener) → elasticsearchService.saveDiscussPost(post);

## User type

AUTHORITY\_USER = "user"

0

"/discuss/delete",  
"/data/\*\*",  
"/actuator/\*\*"

1

AUTHORITY\_ADMIN = "admin"

2

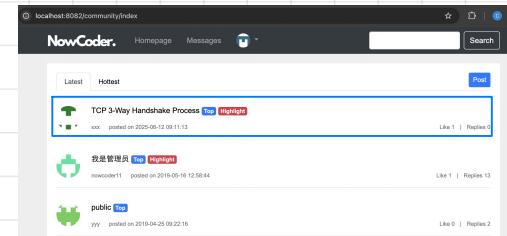
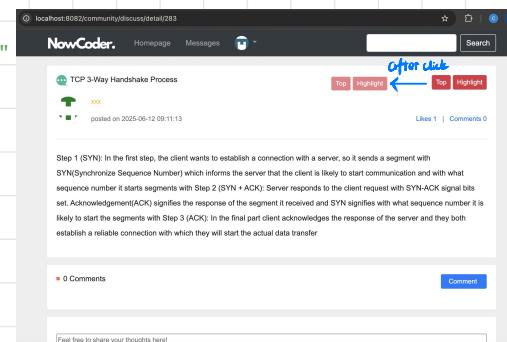
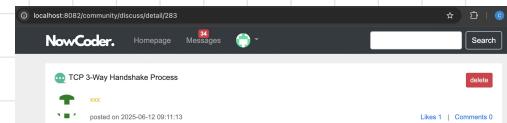
"/discuss/top",  
"/discuss/wonderful"

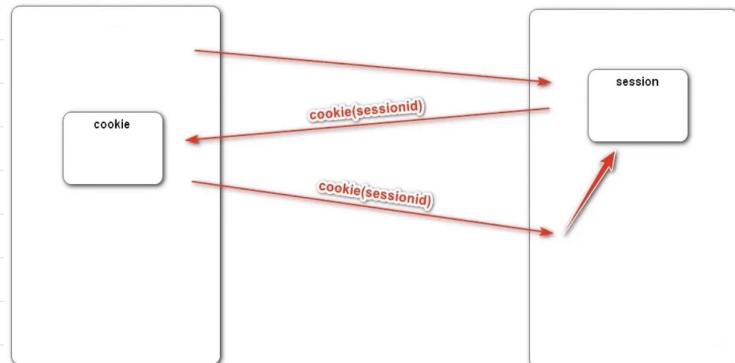
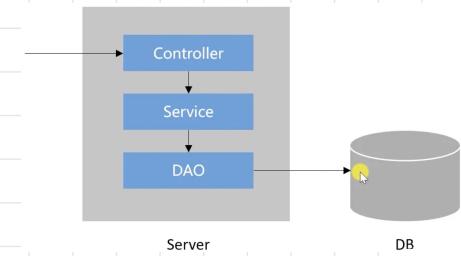
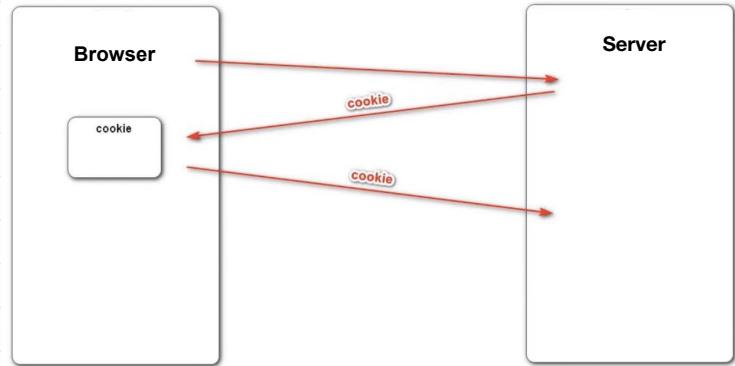
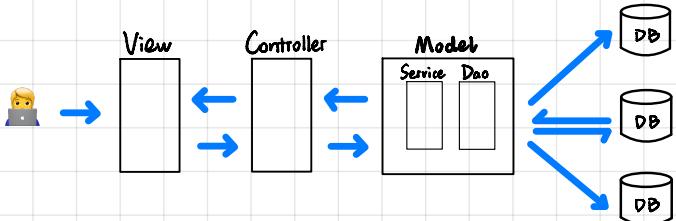
"/user/setting",  
"/user/upload",  
"/discuss/add",  
"/comment/add/\*\*",  
"/letter/\*\*",  
"/notice/\*\*",  
"/like",  
"/follow",  
"/unfollow"

only when logged in

Spring Security

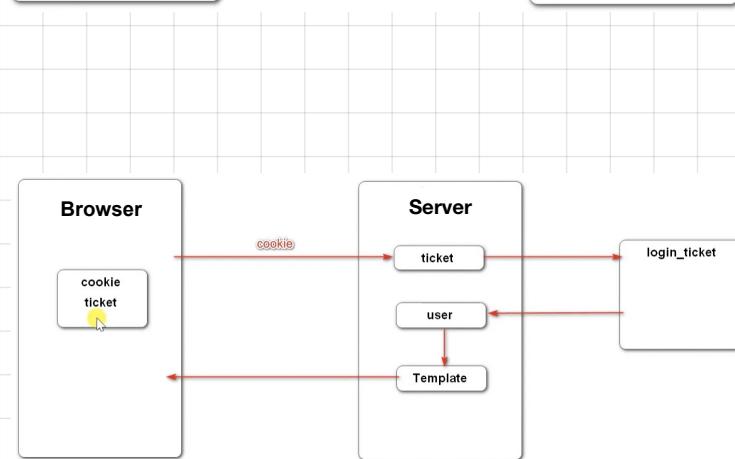
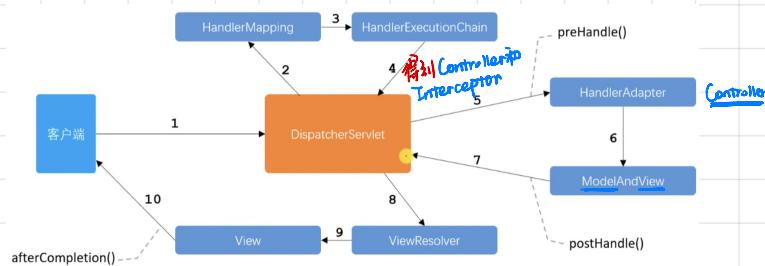
id	username	password	salt	email	type	status
21	nowcoder21	25ac0a2e8...	49f10	nowcoder21@sina.com	2	Top, Highlights
13	nowcoder13	25ac0a2e8...	49f10	nowcoder13@sina.com	1	1
12	nowcoder12	25ac0a2e8...	49f10	nowcoder12@sina.com	1	delete
11	nowcoder11	25ac0a2e8...	49f10	nowcoder11@sina.com	1	1
144	zzz	07b83b774...	21e8b	nowcoder144@sina.com	0	1





5. Controller 不能直接被执行，它是通过 HandlerAdapter 来间接调用的（就像一个适配器）。

⚠ 此时会先执行所有拦截器的 preHandle() 方法（相当于“进入 Controller 前”）。



权限	核心	性能	通知	搜索	其他
注册、登录、退出 状态、设置、授权 @会话管理	首页、帖子、评论 私信、异常、日志 @敏感词、@事务	点赞、关注 统计、缓存 @数据结构	系统通知 @模式	全文搜索 @索引	排行、上传 服务器缓存 @线程池、@缓存
Spring Email <u>Interceptor</u> Advice AOP Transaction		Redis	Kafka	Elasticsearch Quartz Caffeine	

Spring MVC

Spring MyBatis

Spring Security

Spring

Spring Boot