introduction

develop environment:

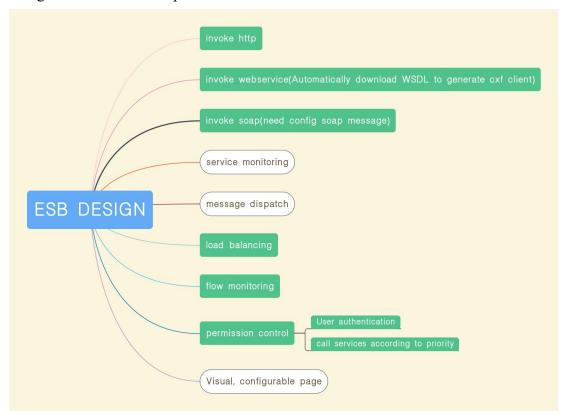
jdk8, zookeeper3.4.14, activemq 5.15.9, camel 3.0.0-M2

ESB framework:

base springcloud

functions provided:

green node have completed



Manual

user flow:

- 1)get token by user register
- ②register service
- ③invoke service

Get token by user register

	user register				
	Direction	Terminal> WEB	Server		
	transfer protocol	http/post,get			
	transmission format				
	interafce name	/userAction/register			
D 4	param	description	necessary	param type	
Request	userName	user name	True	string	
	userPhone	user phone	True	string	
	userEmail	email	True	string	
	encrypt	No			
	test address				
remark					
Response	Direction	WEB Server> Terminal			
	transfer protocol	http /JSON			
	encrypt	No			
	return description	{"code":100, "t	oken":"token"}		
	param	description		param type	
	code	100:success		string	
	token	token		string	
remark	①code : 100:success;10)code: 100:success;101:false;			

code path: test.com.camel.RegisterJsonTest.java

```
public void userRegister() {

try {
    String param = "userName=test&userPhone=xxxxx&userEmail=694105388@qq.com&pwd=123456";
    CloseableHttpClient httpClient = HttpClients.createDefault();
    HttpPost post = new HttpPost("http://localhost:13001/ESB/userAction/register");
    StringEntity entity = new StringEntity(param, "utf-8");
    entity.setContentEncoding("utf-8");
    entity.setContentType("application/x-www-form-urlencoded");
    post.setEntity(entity);
    HttpResponse httpResponse = httpClient.execute(post);
    httpResponse.setHeader("Content-Type", "text/plain;charset=utf-8");
    String s = EntityUtils.toString(httpResponse.getEntity(), "utf-8");
    System.out.println(s);

} catch (Exception e) {
    e.printStackTrace();
}
```

register service

register service with json

	register service with json				
	Direction	Terminal> WEB Server			
	transfer protocol	http/post			
	transmission format	Json			
	interface name	/registerAction/registerWithJson			
	param	description	necessary	param type	
	siteCode	site code	Yes	string	
	serviceCode	service code	Yes	string	
D	url	resource;if type=2 url=wsld	Yes	string	
Request	type	1:http;	Yes	int	
		2:webservice;			
		3:soap			
	params	param key	No	string	
	soap	it is necessary when	No	string	
		type=3 ,Parameter replaced			
		with "?",			
	encrypt	No			

	test address			
	param={			
	"siteCode":"site code",			
	"serviceCode":"service code",			
	"url":resources",			
remark	"type":1,//1:http;2	2:webservice;3:soap"		
	params":[{"key":	"","type":1},{}{}]//1:text		
	}			
	put token:Authoriza	ntion=token into head		
Response	Direction	WEB Server> Terminal		
	transfer protocol	http +JSON		
	encrypt	No		
	return description	{ "code" :100, "desc" :" succes	ss"]}	
		{ "code" :101, "desc" :" failure	e" }]}	
	参数	说明	参数类型	
	code		string	
remark	①code: 100:suc	cess;101:failure;		

code path: test.com.camel.RegisterJsonTest.java

```
public void registerWithOneParamJsonTest() {

try {

   Map<String, Object> map = new HashMap<String, Object>();
   map.put(Constant.Key.STE_CODE, "350000");
   map.put(Constant.Key.SERVICE_CODE, "checkVersion");
   map.put(Constant.Key.VRL, "http://localhost:8080/HY-GS/mobileSystemAction/api/checkVersion");
   map.put(Constant.Key.VRF, 1);
   List<Map<String, Object> params = new ArrayList<Map<String, Object>>();
   Map<String, Object> params = new ArrayList<Map<String, Object>>();
   Map<String, Object> params = new HashMap<String, Object>>();
   p.put("kye", "source");
   p.put("kye", "source");
   p.put("kye", 1);
   params.add(p);
   map.put(Constant.Key.PARAMS, params);
   String param = getJSON(map);
   System.out.println(param);
   CloseableHttpClient httpClient = HttpClients.createDefault();
   HttpPost post = new HttpPost("http://localhost:13001/ESB/invokeAction/registerWithJson");
   String token = "test" + Constant.SPLIT_SION + "123456";
   String oublickeySte = "MFWH007XIAOTINeNADEBROADSWMWSAJBAKHDDXYmv93+klSDKoMTknddAVY6QtpTra8BlANXtavEFZW1+z+c4QQoiXQW89y0DCFpvPZdDG/Vy
   post.addHeader("Authorization", RSA.encryptByPublic(token, publickeyStr));
   StringEntity entity = new StringEntity("param=" + param, "utf-8");
   entity.setContentType("application/x-www-form-urlencoded");
   post.setEntity(entity);
   HttpResponse httpResponse = httpClient.execute(post);
   httpResponse.setHeader("Content-Type", "text/plain;charset=utf-8");
   String s = EntityUtils.toString(httpResponse.getEntity(), "utf-8");
   system.out.println(s);
```

register service with xml

	register service with xml				
	Direction	Terminal> WEB Server			
	transfer protocol	http/post			
	transmission format	Json			
	interface name	/registerAction/registerWithXML			
	param	description	necessary	param type	
	siteCode	site code	Yes	string	
	serviceCode	service code	Yes	string	
	url	resource;if type=2 url=wsld	Yes	string	
Request	type	1:http;	Yes	int	
		2:webservice;			
		3:soap			
	param	param key	No	string	
	soap	it is necessary when	No	string	
		type=3 ,Parameter replaced			
		with "?",			
	encrypt	No			
	test address				
	param= <root></root>				
	<sitecode>site c</sitecode>	ode			
	<servicecode>se</servicecode>	ervice code			
	<url>rescource</url>				
remark	<type>1:http;2:webservice;3:soap</type>				
Tomark	<pre><param/></pre>				
	<key><![CDATA[param 1]]></key>				
	<type>1:text;2:file</type>				
	<pre><param/></pre>				

	<key><![CDATA[param 2]]></key>			
	<type>1:text;2:file</type>			
	put token:Authoriza	ation=token into head		
Response	Direction	WEB Server> Terminal		
	transfer protocol	http +JSON		
	encrypt	No		
	return description	<root></root>		
		<code>100</code>		
		<desc>success</desc>		
		<root></root>		
		<code>101</code>		
		<desc>failure</desc>		
	参数	说明	参数类型	
	code		string	
remark	①code: 100:suc	cess;101:failure;		

code path: test.com.camel.RegisterXMLTest.java

```
try {
    StringBuffer sb = new StringBuffer();
    sb.append("<noot>");
    sb.append("<siteCode>350002</siteCode>");
    sb.append("<serviceCode>150002</siteCode>");
    sb.append("<serviceCode>threeParame/serviceCode>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe>1ctytep>");
    sb.append("cvpe=1ctytep>");
    sb.append("cvpe=1ctytep>");
    sb.append("cvpe=1ctytep>");
    sb.append("cvpe=1ctytep>");
    sb.append("cvpe=1ctytep>");
    sb.append("cvpe=1ctytep>");
    String param = sb.toString();
    System.out.println(param);
    CloseableHttpClient httpClient = HttpClients.createDefault();
    HttpDost post = new HttpDost("http://localhost:13001/ESB/invokeAction/registerWithXML");
    String token = "test" + Constant.SPLTT_SION + "123456";
    String token = "test" + Constant.SPLTT_SION + "123456";
    String publickeyStr = "MFwwDQYJKoZIhvcNaQEBBQADSwawsAJBAKHDXXvv93+k15DKoMIkn4dAVY6Qtp7ra8BlANXtavEFZW1+z+c4gQoiXQW89y0DCFpvP
    post.addHeader("Authorization", RSA.encryptByPublic(token, publickeyStr));
    StringEntity entity = new StringEntity("param=" + param, "utf-8");
    entity.setContentType("application/x-www-form-urlencoded");
    post.setEntity(entity);
    HttpResponse httpClient.execute(post);
    httpResponse.setHeader("Content-Type", "text/plain;charset=utf-8");
    String s = EntityUtils.toString(httpResponse.getEntity(), "utf-8");
    System.out.println(s);
```

invoke service

invoke service with json

	invoke service with json				
	Direction	Terminal> WEB Server			
	transfer protocol	http/post			
	transmission format	Json			
	interface name	/invokeAction/invokeWithJson			
	param	description	necessary	param type	
Request	siteCode	site code	Yes	string	
	serviceCode	service code	Yes	string	
	offline	0(default);1	Yes	string	
	params	param key	No	string	
	encrypt	No			
	test address				
	param={				
	"siteCode":"site code",				
	"serviceCode":"s	ervice code",	vice code",		
remark	"offline":1,				
	"params":[{"value":"param 1","key":""},{"value":"param12","key":""}{}]				
	}				
	put token:Authoriza	ntion=token into head			
Response	Direction	WEB Server> Terminal			
	transfer protocol	http +JSON			
	encrypt	No			
	return description	{ "code" :100,routeId:"	", "desc":"		
		success",data:[{"content of s	success"}]}		
		{ "code":101,routeId:"" "desc":" 成			
		功",data:[{"exception message"}]}			
	参数	说明			
	code			string	
remark	①code: 100:success;101:failure;				

code path: test.com.camel.InvokeJsonTest.java

```
try {
    Map<String, Object> map = new HashMap<String, Object>();
    map.put(Constant.Key.StrIC_CODE, "350002");
    map.put(Constant.Key.StrIC_CODE, "350002");
    map.put(Constant.Key.StrIC_CODE, "150002");
    map.put(Constant.Key.StrIC_CODE, "150002");
    map.put(Constant.Key.OFFLINE, 0);
    ListMap<String, Object> pl = new HashMap<String, Object>();
    Map<String, Object> pl = new HashMap<String, Object>();
    pl.put("key", "arg0");
    pl.put("value", "nimacaocao");
    params.add(pl);
    Map<String, Object> p2 = new HashMap<String, Object>();
    p2.put("key", "arg1");
    p2.put("key", "arg1");
    params.add(p2);
    map.put("params", params);
    CloseableHttpClient httpClient = HttpClients.createDefault();
    HttpPost post = new HttpPost("http://localhost:13002/ESB/invokeAction/invokeWithJson");
    String token = "test" + Constant.PLT_SION + "123456";
    String token = "test" + Constant.PLT_SION + "123456";
    String token = "test" + Constant.PLT_SION + "123456";
    String publickeyStr = "MFwwDQYJKoZIhvchAQEBBQADSwWASAJBAKHDpXYwv93+kl5DKcMIkn4dAVY6Qtp7ra8BlANXtavEFZW1+z+c4gQoiXQW89yDCFpvPZdDG/Vy
    post.addHeader("Authorization", RSA.encryptByPublic(token, publicKeyStr));
    String param = getJSDM(map);
    String farity entity = new StringEntity(param, "utf-8");
    entity.setContentType("application/json");
    post.setEntity(entity);
    HttpResponse tytpResponse = httpClient.execute(post);
    httpResponse.setHeader("Content-Type", "text/plain;charset=utf-8");
    String s = EntityUtils.toString(httpResponse.getEntity(), "utf-8");
    System.out.println(s);
```

invoke service with XML

	invoke service with XML				
	Direction	Terminal> WEB Server			
	transfer protocol	http/post			
	transmission format	Json	Json		
	interface name	/invokeAction/invokeWithXML			
	param	description	necessary	param type	
Request	siteCode	site code	Yes	string	
	serviceCode	service code	Yes	string	
	offline	0(default);1	Yes	string	
	params	param key	No	string	
	encrypt	No			
	test address				
	param= <root></root>				
	<sitecode>site code</sitecode>				
remark	<pre><servicecode>service code</servicecode></pre>				
	<offline><td colspan="3"><offline></offline></td></offline>	<offline></offline>			
	<params></params>				

	<value><![CDATA[value 1]]></value>			
	<pre><key><![CDATA[key1]]></key></pre>			
		A[key1]]>		
	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			
	<pre><params></params></pre>			
	<value><![CDATA[value 2]]></value>			
	<key><![CDATA[key 2]]></key>			
	<pre><params></params></pre>			
	put token:Authoriza	ation=token into head		
Response	Direction	WEB Server> Terminal		
	transfer protocol	http +JSON		
	encrypt	No		
	return description	<root></root>		
		<code>100</code>		
		<desc>success</desc>		
		<routeid></routeid>		
		<data><![CDATA[content of success]]></data>		
		<root></root>		
		<data><![CDATA[exception messa</td><td>age]]></data>		
		<routeid></routeid>		
		<code>101</code>		
		<desc>failure</desc>		
		说明	参数类型	
	code		string	
remark	①code: 100:suc	cess;101:failure;	1	

code path: test.com.camel.InvokeJsonTest.java

```
try {
    StringBuffer sb = new StringBuffer();
    sb.append("csiteCode>350002</siteCode>");
    sb.append("csiteCode>350002</siteCode>");
    sb.append("csiteCode>350002</siteCode>");
    sb.append("csiteCode>threeParamx/serviceCode>");
    sb.append("csiteCode>threeParamx/serviceCode>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    sb.append("cylarams>");
    string token = "test" + Constant.SPLIT_SIGN + "123456";
    String token = "test" + Constant.SPLIT_SIGN + "123456";
    String publickeyStr = "NFwwDQYTNACINENAQEBBAQDSAWASJABAHDPXYwv93+kl5DKcMIkn4dAVY6Qtp7ra8BlANXtavEFZW1+z+c4gQoiXQW89y0DCFpvPZdDG,
    post.addHeader("Authorization", RSA.encryptByPublic(token, publicKeyStr));
    String param = sb.toString();
    StringEntity entity = new StringEntity(param, "utf-8");
    entity.setContentIncoding("utf-8");
    entity.setContentInye("application/json");
    post.setEntity(entity);
    HttpResponse.setHeader("Content-Type", "text/plain;charset=utf-8");
    String s = EntityUtils.toString(httpResponse.getEntity(), "utf-8");
    System.out.println(s);
} catch (Exception e) {
        e.printStackTrace();
}
```

remove service

	remove service with json				
	Direction	Terminal> WEB Server			
	transfer protocol	http/post			
	transmission format	Json			
	interface name	/invokeAction/removeESBService			
Request	param	description	necessary	param type	
	siteCode	site code	Yes	string	
	serviceCode	service code	Yes	string	
	encrypt	No			
	test address				
	param={ "siteCode" :"", "serviceCode" :""]}				
remark	put token:Authorization=token into head				
Response	Direction	WEB Server> Terminal			
	transfer protocol	http +JSON			
encrypt No					
	return description	{ "code" :100, "desc" :" success"]}			
		{ "code" :101, "desc	":" failure" }]	}	
remark	①code: 100:success;101:failure;				

code path: test.com.camel.RmoveESBTest.java

```
@Test
public void removeNoParamJsonTest() {

try {

    MapxString, Object> map = new HashMapxString, Object>();
    map.put(Constant.Key.SITE_CODE, "350003");
    map.put(Constant.Key.SERVICE_CODE, "WebService");
    String param = getJSON(map);
    System.out.println(param);
    CloseableHttpClient httpClient = HttpClients.createDefault();
    HttpPost post = new HttpPost("http://localhost:13001/ESB/invokeAction/removeESBService");
    String token = "test" + Constant.SPLIT_SIGN + "123456";
    String publickeyStr = "MFwwDQYJKoZIhvcNAQEBBQADSwAwsAJBAKHDDXYwv93+kl5DKoMIkn4dAVY6Qtp7ra8BlANXtavEFZW1+z+c4gQoiX post.addHeader("Authorization", RSA.encryptByPublic(token, publicKeyStr));
    StringEntity entity = new StringEntity("param=" + param, "utf-8");
    entity.setContentEncoding("utf-8");
    entity.setContentType("application/x-www-form-urlencoded");
    post.setEntity(entity);
    HttpResponse httpResponse = httpClient.execute(post);
    httpResponse.setHeader("Content-Type", "text/plain;charset=utf-8");
    String s = EntityUtils.toString(httpResponse.getEntity(), "utf-8");
    System.out.println(s);
} catch (Exception e) {
        e.printStackTrace();
}
```