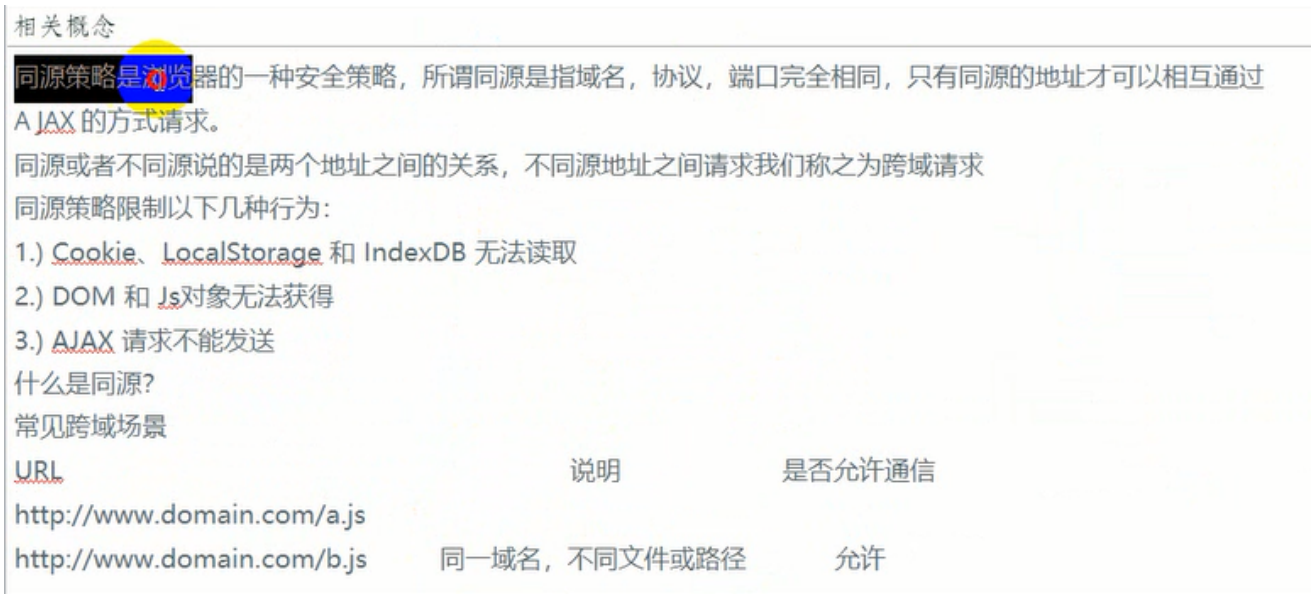
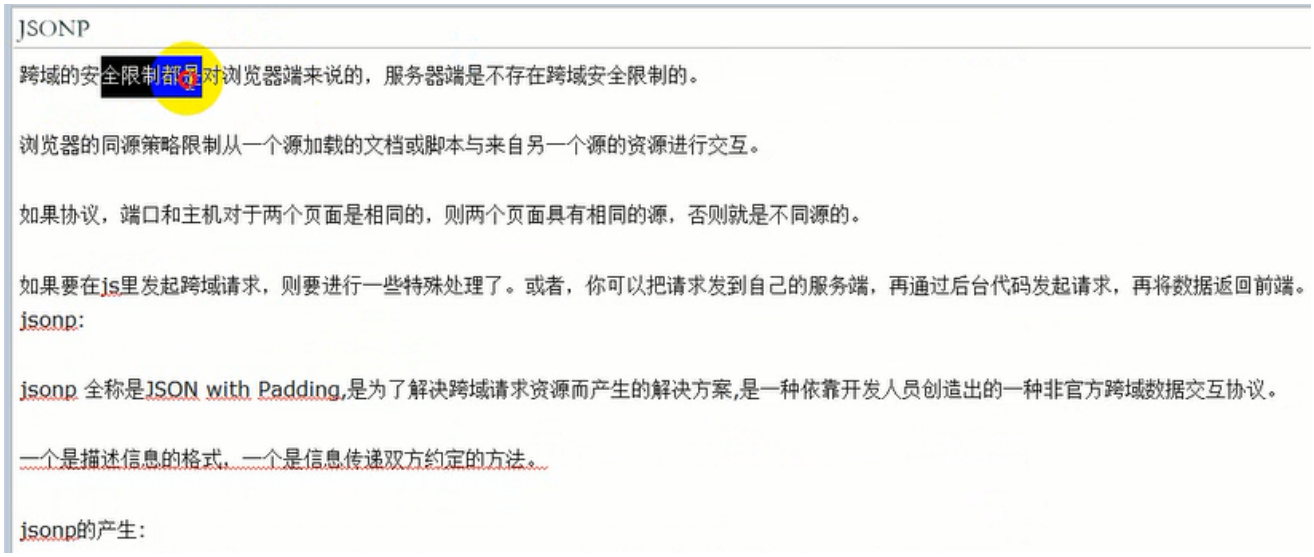
跨域

相关概念



JSONP



JSONP-A中index.jsp

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
  <head>
    <title>A跨域请求</title>
    <script src="js/jquery-1.12.4.js"></script>
    <script type="text/javascript">
        $(function () {
            $("#btn").click(function () {
                //发送一个get请求
                $.get(
                    "http://localhost:8888/JSONP-B/goodsServlet",
                    function (data) {
                        $("#show").append(data);
                    },
                    "json"
                )
            })
```

```
        })
    </script>
  </head>
  <body>
      <input type="button" id="btn" value="A发送跨域请求">
      <div id="show">

      </div>
      <img src="http://localhost:8888/JSONP-B/img/01.jpg">
  </body>
</html>
```

JSONP

```
$("#btn").click(function () {
    $.ajax({
        url: 'http://localhost:8080/B/student',
        type: 'GET',
        dataType: "jsonp",  //指定服务器返回的数据类型
        jsonpCallback: "callback",  //指定回调函数名称
        success: function (data) {
         var result = JSON.stringify(data); //json对象转成字符串
         $("#text").val(result);

        }
    });
```

JSONP-A中的index.jsp

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
  <head>
    <title>A跨域请求</title>
    <script src="js/jquery-1.12.4.js"></script>
    <script type="text/javascript">
        $(function () {
            $("#btn").click(function () {
                $.get({
                    url:"http://localhost:8888/JSONP-B/jsonServlet",
                    dataType:"jsonp",                          //指定入服务器返回的数据类型
                    jsonpCallback :"callback",                 //指定回调函数名称
                    success:function (data) {
                        var  result = JSON.stringify(data);
                        $("#show").text(result);
                    }
                    })
```

```
                })
            })
    </script>
  </head>
  <body>
        A跨域请求
        <input type="button" id="btn" value="A发送跨域请求">
        <div id="show">

        </div>
        <img src="http://localhost:8888/JSONP-B/img/01.jpg">
  </body>
</html>
```

JSONP-B中的jsonServlet类中

```
@WebServlet( "/jsonServlet")
public class jsonServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        doGet(request, response);
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        //前端穿过来的回调函数的名称
        String callback = request.getParameter("callback");
        response.setContentType("text/json");
        response.setCharacterEncoding("utf-8"  );
        PrintWriter out = response.getWriter();
        goodsService goodsService =  new goodsServiceImpl();
        //获取商品列表
        List<Goods> goodsList = goodsService.findAllGoods();
        //将其转化为JSON字符串
        String strJson =  JSON.toJSONString(goodsList);
        //回调函数名称包裹返回函数，返回函数作为回调参数传到前端
        strJson =callback + "("+strJson+")";
        //将其输出到jsp页面
        out.print(strJson);
        //关闭流
        out.close();

    }
}
```

CORS

JSONP-A中index.jsp中

```
<%@ page contentType="text/html;charset=UTF-8" language="java" %>
<html>
  <head>
    <title>A跨域请求</title>
    <script src="js/jquery-1.12.4.js"></script>
    <script type="text/javascript">
        $(function () {
            $("#btn").click(function () {
                $.get({
                    url:"http://localhost:8888/JSONP-B/jsonServlet",
                    /*dataType:"jsonp",                          //指定入服务器返回的数据类型
                    jsonpCallback :"callback",                 //指定回调函数名称*/
                    success:function (data) {
                        var  result = JSON.stringify(data);
                        $("#show").text(result);
                    }
                    })
                })
            })
    </script>
```

```
  </head>
  <body>
        A跨域请求
        <input type="button" id="btn" value="A发送跨域请求">
        <div id="show">

        </div>
        <img src="http://localhost:8888/JSONP-B/img/01.jpg">
  </body>
</html>
```

JSONP-B中jsonServlet类中

```
@WebServlet( "/jsonServlet")
public class jsonServlet extends HttpServlet {
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        doGet(request, response);
    }

    protected void doGet(HttpServletRequest request, HttpServletResponse response)
throws ServletException, IOException {
        //前端穿过来的回调函数的名称
        // String callback = request.getParameter("callback");
        response.setContentType("text/json");
        response.setCharacterEncoding("utf-8"  );

        response.setHeader("Access-Control-Allow-Origin","*");

        PrintWriter out = response.getWriter();
        goodsService goodsService =  new goodsServiceImpl();
        //获取商品列表
        List<Goods> goodsList = goodsService.findAllGoods();
        //将其转化为JSON字符串
        String strJson =  JSON.toJSONString(goodsList);
        //回调函数名称包裹返回函数，返回函数作为回调参数传到前端
        //strJson =callback + "("+strJson+")";
        //将其输出到jsp页面
        out.print(strJson);
        //关闭流
        out.close();

    }
}
```