

Product.java

```

1 package ctrl.api;
2
3 import java.io.IOException;
4
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19
20
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22
23
24 /**
25  * Servlet implementation class Product
26  */
27 @WebServlet("/Api/Product")
28 public class Product extends HttpServlet {
29     private static final long serialVersionUID = 1L;
30
31     /**
32      * @see HttpServlet#HttpServlet()
33      */
34     public Product() {
35         super();
36         // TODO Auto-generated constructor stub
37     }
38
39     /**
40      * @see HttpServlet#doGet(HttpServletRequest request,
41      * @see HttpServletResponse response)
42      */
43     protected void doGet(HttpServletRequest request,
44     HttpServletResponse response) throws ServletException, IOException
45     {
46         response.setContentType("application/json");
47         response.setCharacterEncoding("utf-8");
48         response.addHeader("Access-Control-Allow-Origin", "*");
49
50         PrintWriter out = response.getWriter();
51         JsonObject json = new JsonObject();
52         JsonElement resultJson;
53         Model model = Model.getInstance();
54
55         String num = request.getParameter("num");
56         String cid = request.getParameter("cid");
57         String limit = request.getParameter("limit");
58         String byCat = request.getParameter("byCat");
59
60         try {
61             if (byCat != null) {
62                 if (byCat.toLowerCase().equals("name")) {
63                     Map<String, List<Item>> result =

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        model.getCatNameWithFoods();
61         resultJson = new Gson().toJsonTree(result);
62     } else {
63         Map<Category, List<Item>> result =
        model.getCatsWithFoods();
64
65         resultJson = new Gson().toJsonTree(result);
66     }
67     } else {
68         List<Item> result = model.getFoods();
69
70         if (num != null)
71         {
72             result = model.getFoodsBy("num", num, false);
73         }
74         else if (cid != null)
75         {
76             result = model.getFoodsBy("cid", cid, false);
77         }
78
79         if (limit != null) {
80             int l = Integer.parseInt(limit);
81             result = result.subList(0, l);
82         }
83         resultJson = new Gson().toJsonTree(result);
84     }
85
86     json.add("data", resultJson);
87     json.addProperty("status", 1);
88 } catch (Exception e) {
89     json.addProperty("status", 0);
90     json.addProperty("data", e.getMessage());
91 }
92
93 out.print(json.toString());
94 }
95
96 /**
97  * @see HttpServlet#doPost(HttpServletRequest request,
    HttpServletResponse response)
98  */
99 protected void doPost(HttpServletRequest request,
    HttpServletResponse response) throws ServletException, IOException
    {
```

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```
100      // TODO Auto-generated method stub
101      doGet(request, response);
102  }
103
104 }
105
```