

# Exercises: Ajax Basics II

1. Make a form with a textfield and a pushbutton. The user should enter a customer ID and press the button, and should see (in the same page) either:
  - A bulleted list of the id, first name, last name, and balance of the person with that ID. Note that you can call `CustomerUtils.getCustomer("a1234")` to get the Customer whose id is "a1234".
  - An error message for an unknown/missing id

For the client-side code, feel free to steal my “ajax-utils.js” file from the code from the lecture, but of course you will have to apply that to the specific application here. For the server-side code, note that my previous set of exercise solutions provided a class called `ResultUtils` with a static method called `makeBulletedList` that takes a `Customer` and spits out a string representing a `<ul>` list. So, feel free to steal the `ResultUtils` class and call `ResultUtils.makeBulleted(yourCustomer)` to actually build the HTML output on the server. However, although a servlet is a better choice than a JSP here (MVC is actually best; we will discuss this later), if you are rusty with servlets and `web.xml`, here is a JSP page that returns a bulleted list of just the first and last names, with no error checking for missing IDs or unknown customers:

```
<%@ page import="coreservlets.*" %>
<% String id = request.getParameter("custID");
    Customer cust = CustomerUtils.getCustomerOrDefault(id); %>
<ul>
  <li><%= cust.getFirstName() %></li>
  <li><%= cust.getLastName() %></li>
</ul>
```

Although this server-side code is not as good as the approach described above, the important part of the exercise is to write the *client-side* code yourself.

2. Make a form with two textfields and a pushbutton. The user should enter a first and last name and press the button, and should see (in the same page) either:
  - A bulleted list of the id, first name, last name, and balance of the person with that name. Note that you can call `CustomerUtils.getNamedCustomer("James", "Gosling")` to get the Customer whose first and last names match. My code assumes there is only one Customer with a given first and last name.
  - An error message for an unknown customer.