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.