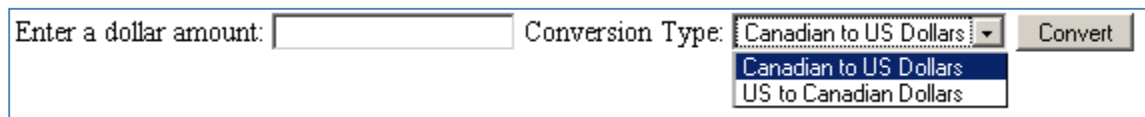## Exercise Summary

In this exercise you will get a chance to build a full request/response, or client to server-side, solution. The goal is to get a sense of all of the details that are required to support a communication between two pages. The program will be relatively simple to help you focus on logistics and logic.

## Exercise Instructions for Client-side Page

1. We will create a simple US-CDN (and vice versa) currency calculator. The client page allow the user to enter a dollar amount and conversion method. It will submit the form to a PHP page, which will do the calculation for the user. Let's start by creating a simple web page, as shown below:



   Don't worry about spending time making it look pretty. However, you will need to factor in design features that will support sending data to a PHP page. You can choose how it goes (post vs. get).

   Let's add one constraint to the client-page: it can't store the actual conversion value in the drop down list (i.e. you won't enter the conversion percent in the option tag's value attribute). Instead, store a value that will indicate how they want to perform the conversion (i.e. US to CDN or CDN to US).

## Exercise Instructions for Server-side Page

1. Program a server-side page that will catch the values from the calling page. Remember that your PHP code has to match up with the design constraints of the client page. Perform some of your own tests/ debugging to make sure that you can actually access the values that are being passed to it.

2. Once you know you can access the values from the requesting page, code the logic that will perform the appropriate conversion calculation and echo that back to the user. We will use the following recent conversion rates:

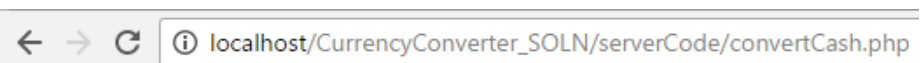   US  to CDN = dollar amount * 1.34
   CDN to US   = dollar amount * 0.74

   Here is the sample output when the user converts 100.00 from CDN to USD currency. Try to make your solution match the sample output.



   Your conversion of 100 CDN to USD = $74

   And if the user wanted 100 USD converted to Canadian cash ...



   Your conversion of 100 USD to CDN = $134