

## Assignment 3: Still better banking

### The assignment

Build a web page that looks and behaves identically to the one you built for the previous assignment. However, the new page must be implemented differently.

- (1) You must use *jQuery* 3.6.0.
- (2) You may not use any other JavaScript packages.
- (3) All style must be established by *jQuery*; you may not have a `<style>` region, and you may not use `style` attributes in elements.
- (4) All binding of events to functions must be established by *jQuery*; you may not have any `onclick` or related attributes on input elements.
- (5) The calls to update the data must use AJAX and must be mediated by the *jQuery* routines for AJAX (either the `$.ajax()` method or any of its shorthand forms, such as `$.get()`); they must not cause the current page to be reloaded.
- (6) You must use JavaScript to verify that transfer amounts do not exceed the amount in the originating account and that negative amounts are never deposited. If there is an error, use the JavaScript `alert()` method to inform the user.
- (7) The CGI program must also verify these constraints, because it cannot trust that the browser has done so. If there is an error, simply do not perform the requested operation.

As before, your web page should be self-contained and it should validate without warnings or errors. The CGI program must be written in PHP. The AJAX call should invoke the same PHP program.

### Extra credit ideas

To get extra credit, you must document the extra work, preferably in a comment in your PHP program.

- (1) Add an "Easter Egg", that is, an unexpected activity that happens when the user clicks on something that does not look like it has any clickable function. The Easter Egg can be simple reformatting of part of the page, a bonus contribution to an account, a pop-up of a message (keep it clean!) or anything you like. However, the page must look just like the screenshot for the previous assignment until the Easter Egg is invoked.
- (2) Put a timeout on the page so that 5 minutes after it is loaded into the browser, it indicates that time has expired and refuses to perform any action.
- (3) Verify (both in JavaScript and PHP) that the amounts entered do not include fractional cents.

### Turn in

Turn in your PHP program (a single file called `bank-3.php`) via Canvas.