



## Software developer technical exercise

To assist us in our selection process you are invited to complete a practical technical exercise.  
Please take care and submit your response as soon as you are comfortable with the quality of your solution.

### Story

As a bank customer, I want a web page to output a name and monetary value in cheque format.

### Functional description

We need a web page that will allow users to enter the payee name and monetary value in dollars and cents and covert that to cheque format.

### Acceptance criteria

#### AC1

The form must provide the following mandatory fields:

- Payee name
- Amount

#### AC2

The form fields require validation for the input type and handle invalid input gracefully.

- Name may contain letters and spaces, no symbols
- Amount input must handle numeric values from zero to 100 trillion including 2 decimal places for cents

#### AC3

The conversion of input to cheque format must be done in PHP upon form submission (not just javascript).

#### AC4

The cheque format result must contain:

- Name
- Numeric value in currency format with dollar sign, commas and decimal point with exact cents
- Amount in **grammatically correct** English

### Example input and output

**Input 1:** John Smith  
145023.45

**Output 1:** John Smith  
\$145,023.45  
ONE HUNDRED AND FOURTY-FIVE THOUSAND, TWENTY-THREE DOLLARS AND FORTY-FIVE CENTS

**Input 2:** Jane Smith  
5123

**Output 2:** Jane Smith  
\$5,123.00  
FIVE THOUSAND, ONE HUNDRED AND TWENTY-THREE DOLLARS AND ZERO CENTS

### Deliverables

The solution must be a working web application using the PHP. You may use any third party libraries or modules that you feel contribute to any of the considerations.

Please provide the following when returning your solution:

- Packaged source code or link to a public repository (GitHub etc)
- A link to a working demo of your application
- Technical description document with an explanation of design and programming techniques utilised



### What we will be looking for

The intention of this exercise is to ascertain your abilities to produce a logical and efficient solution to a programming task. We will be looking for the following qualities:

- Conformance to the acceptance criteria and example input/output
- Adherence to principals of good software design where applicable
- Testability of business rules
- Extensibility and maintainability of design
- Clean code
- Clear understanding of techniques and frameworks used
- Please produce the quality of work that you would consider **acceptable to an end client**.
- Whilst you won't be judged on visual design feel free to be creative.

Once you are satisfied with the quality of your solution, please return it via email to [dan.adijans@ogilvy.com.au](mailto:dan.adijans@ogilvy.com.au) and [Pedro.daPalmaRosa@ogilvy.com.au](mailto:Pedro.daPalmaRosa@ogilvy.com.au)