

Howsy Software Developer Challenge

This test allows you to demonstrate the skills that will be required as a Software Developer at Howsy. We primarily use PHP at Howsy and would prefer submissions in this format however we will accept submissions in other OOP languages (Java, Python, Ruby) ***but please note, day-to-day you will be writing in PHP***

Try to write elegant OOP code. It should be SOLID, DRY and have good test coverage. Just like it would for a real project! We are trying to see how you write code so please don't use any full service frameworks. Packages for things like DI containers are fine of course.

We also want to see the infrastructure around the system - how can we run your solution and validate it works. Please include a readme detailing this.

When you have completed the challenge please share your code in the form of a GIT repository with daniel.benzie@howsy.com.

Challenge

Howsy are building a new checkout. The checkout system allows users to pay up front for products added to their property management agreement. The system should also allow users to take advantage of special offers. An initial offer will be "users who have agreed to a 12 month contract are entitled to a 10% discount off the basket total"

The products are below:

Product Code	Name	Price
P001	Photography Package	200.00
P002	Floorplan Package	100.00
P003	Gas Certificate	50.00
P004	EICR Certificate	50.00

Your job is to implement the basket which should have the following interface:

- Basket can be initialised with offer(s) user is eligible for
- It has a an add method to add a product
- Each individual product can only be added to the basket one time
- It has a total method that returns the total cost of the basket - remember to take into account any valid offers