

PHP Developer Test

Introduction

The objective is to create a voucher pool microservice based in PHP.
You can use whichever components, libraries and frameworks you prefer.

What is a voucher pool?

A voucher pool is a collection of (voucher) codes that can be used by customers (recipients) to get discounts in a web shop.

Each code may only be used once and we would like to know when it was used by the recipient.

Since there can be many recipients in a voucher pool, we need a call that auto-generates voucher codes for each recipient.

Here's a screenshot from our software to give you an idea what it looks like:

The screenshot shows a web interface for managing a voucher pool. At the top, under the heading "Willkommensgutscheine", there are three statistics: "120.000 Gesamte Gutscheine", "90.193 Unbenutzte Gutscheine", and "29.807 Benutzte Gutscheine". Below this is a section with a blue button "+ Gutscheine hinzufügen", a search bar, and a settings gear icon. A table lists voucher codes with columns for selection, code, settings, status, recipient, and usage date. The first row shows a code "X3A9309B" that has been used by "schebesta@newsletter2go.com" on "24.08.2017". The other two rows show unused codes. A pagination bar at the bottom indicates the current page is 2 out of 10.

Willkommensgutscheine			
120.000	90.193	29.807	
Gesamte Gutscheine	Unbenutzte Gutscheine	Benutzte Gutscheine	
<div>+ Gutscheine hinzufügen</div>			
CODE	BENUTZT	EMPFÄNGER	VERWENDUNGSDATUM
<input type="checkbox"/> X3A9309B	✓	schebesta@newsletter2go.com	24.08.2017
<input type="checkbox"/> A9309BX3	✗		
<input type="checkbox"/> Y8390BES	✗		

« 1 2 3 4 ... 10 »

Entities

- Recipient
 - Name
 - Email (unique)
- Special Offer
 - Name
 - fixed percentage discount
- Voucher Code
 - unique randomly generated Code (at least 8 chars)
 - assigned to a Recipient and a special offer
 - Expiration Date
 - Can just be used once
 - Should track date of usage

Functionalities

- For a given Special Offer and an expiration date generate for each Recipient a Voucher Code
- Provide an endpoint, reachable via HTTP, which receives a Voucher Code and Email and validates the Voucher Code. In Case it is valid, return the Percentage Discount and set the date of usage
- Extra: For a given Email, return all his valid Voucher Codes with the Name of the Special Offer

Tasks

- ☐ Design a database schema
- ☐ Write an application
- ☐ Add an API endpoint for verifying and redeeming vouchers
- ☐ The code should be covered by tests
- ☐ Write a documentation with code examples for the implemented calls (Postman collection is a nice-to-have)

Hints

- A micro-framework may help you get started quickly
- Security is not a concern - look at this as an internal app, no need for access control
- A system that works is appreciated, but the larger focus is on code quality etc.
- Tests may reveal inconsistencies or unexpected scenarios in the original specification
- Any further questions? Feel free to ask us!