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.

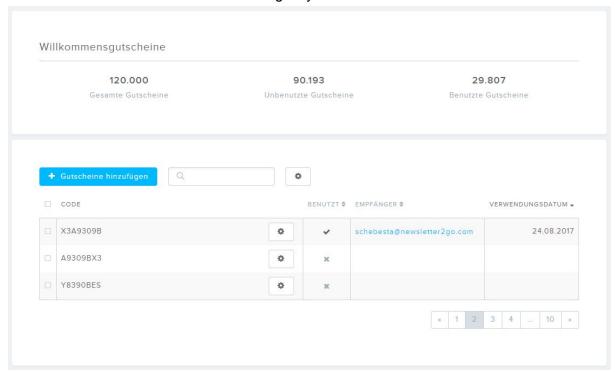
What is a voucher pool?

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 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:



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!