

Bizzy: Coupon Coding Challenge!

Context:

One of the features that we provide for our users is the ability to create coupons in the emails that we send to their customers. In order to automate that process, we need to be able to create functioning coupon codes on their ecommerce platform (we'll start with just Shopify). This will make the emails that our users send through Bizzy more effective, increasing sales and saving our users time from having to create these coupons manually. Plus, their customers will be happy that they are getting a great deal!

Create:

We want to build a coupon microservice that we can use to generate Shopify coupons to be able to provide discounted prices to our users' customers who receive Bizzy emails.

Toward that end, we want a REST/HTTP server that accepts the necessary parameters, and responds with the coupon code. The details of the API with our service, such as how the parameters are contained in the request or format of the response, are up to you, so you can do what makes the most sense.

We also want to see it working, and be able to generate coupons on the fly. Therefore, we also want a simple webpage that has inputs for the parameters and displays the coupon code response from the server.

The parameters that we need to include are whether the coupon type will be a percentage or an absolute amount off, the coupon value, and a minimum order amount for which the coupon applies. For example, we might want a coupon for "\$5 off your next order of \$20 or more" or "10% discount on any purchase" (no minimum amount). Any other parameters are up to you; you might need some method of authentication, such as username and password, to generate the coupon.

Cool to have:

Once we have a working microservice and webpage to generate coupons, we can do some other neat features, of varying difficulty. For example:

- adding more parameters, such as an end-date for the coupon, the ability to target segments or products, or a usage limit
- style the webpage so that it is pleasant to use

- generate a coupon code based on the shop name or other info to make the coupons more memorable than random characters
- support another ecommerce platform, such as WooCommerce
- read in the customers and orders of a user, and determine which product should be targeted for a coupon
- anything else that you can imagine that would be useful or interesting for this service!

It's up to you what you choose to include, if anything, beyond a functioning service and webpage as described.

Common questions:

Can we assume the user's shopify account is a Shopify Plus Account?

Nope!

Are there any restrictions on which language/framework/library I use?

Nope!

Will I need to pay for a Basic Shopify account to test?

Nope! A trial account, which you can set up for free, will be able to do everything you need.

Should I spend as much time as possible on this challenge?

Nope! Please limit yourself to 4 hours. It's an ambitious problem; the time limit will be enforced through an Honor system (please don't spend 8 or 20 hours on this, even if you don't finish).

What do I do when I'm done?

When you're done, please zip up your code and email it to paul@bizzy.io.

What if I have other questions?

Please ask! email directly at paul@bizzy.io or call 775-266-8469 and I would be happy to clarify, help, or answer any questions that come up while you work on this coding challenge.

Am I going to have fun?

Yes! I hope so!