Spring Cleaning

Implementing the Clean Architecture with Spring

DevNexus 2022 ❖ M. Jeff Wilson ❖ @mjeffw

Coaching at the intersection of code and agile.

* Agile Coach
* Certified SAFe ® Program Consultant (SPC)
* Senior/Lead Developer
* DevOps + Test Automation SME

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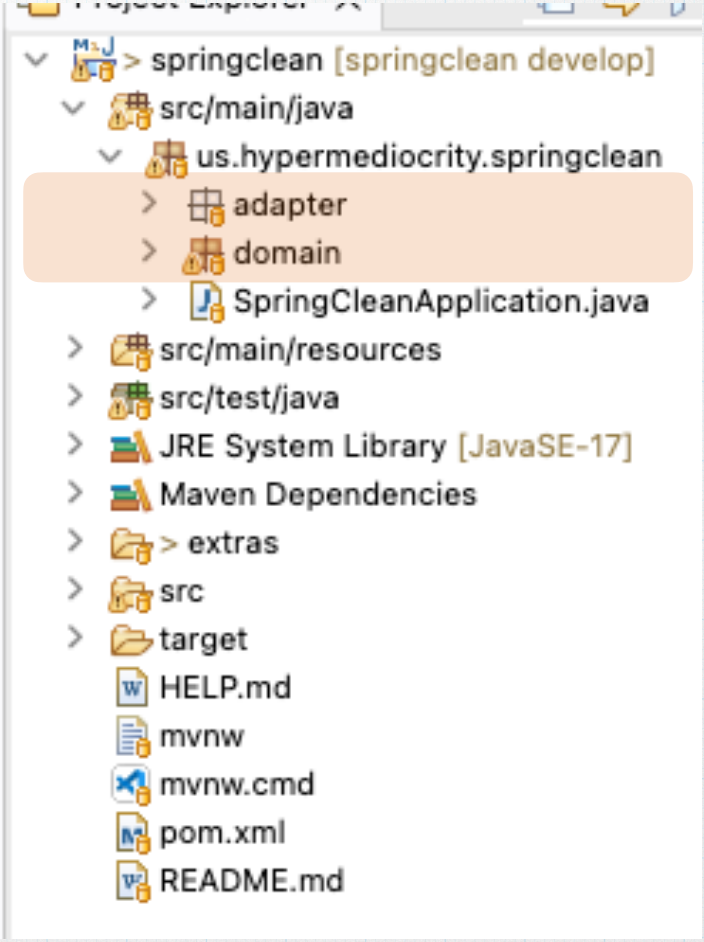
It's your first week at a new job...

- ☑ ~~Load Eclipse onto your laptop~~
- ☑ ~~Clone this git URL~~
- ☐ Familiarize yourself with the codebase
- ☐ Come get your first user story

Adapter? What's that?

Domain? Sounds interesting... Let's drill down into that package.



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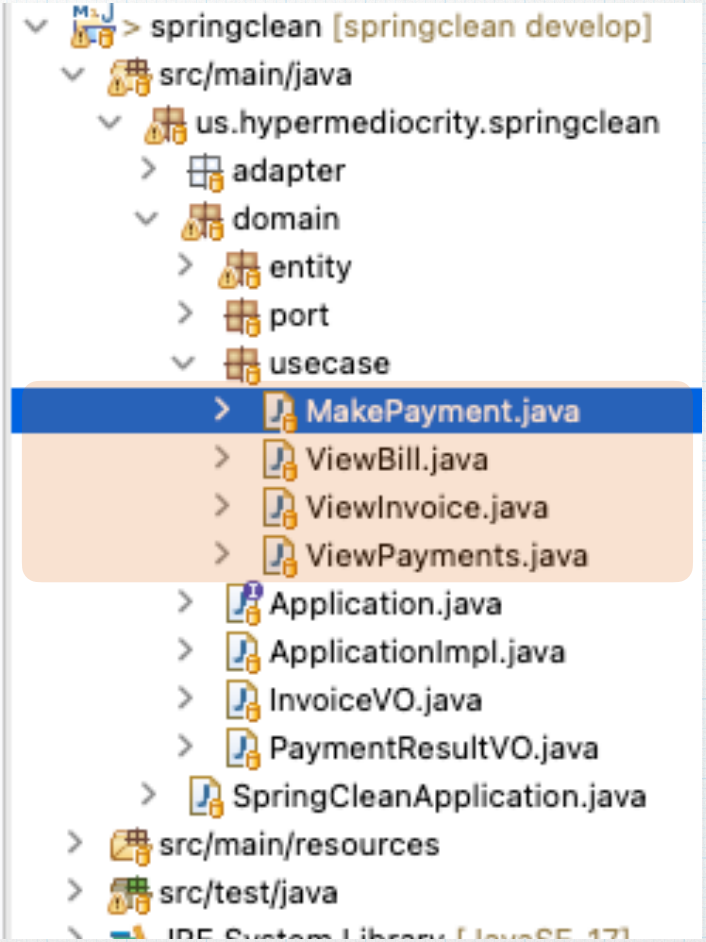

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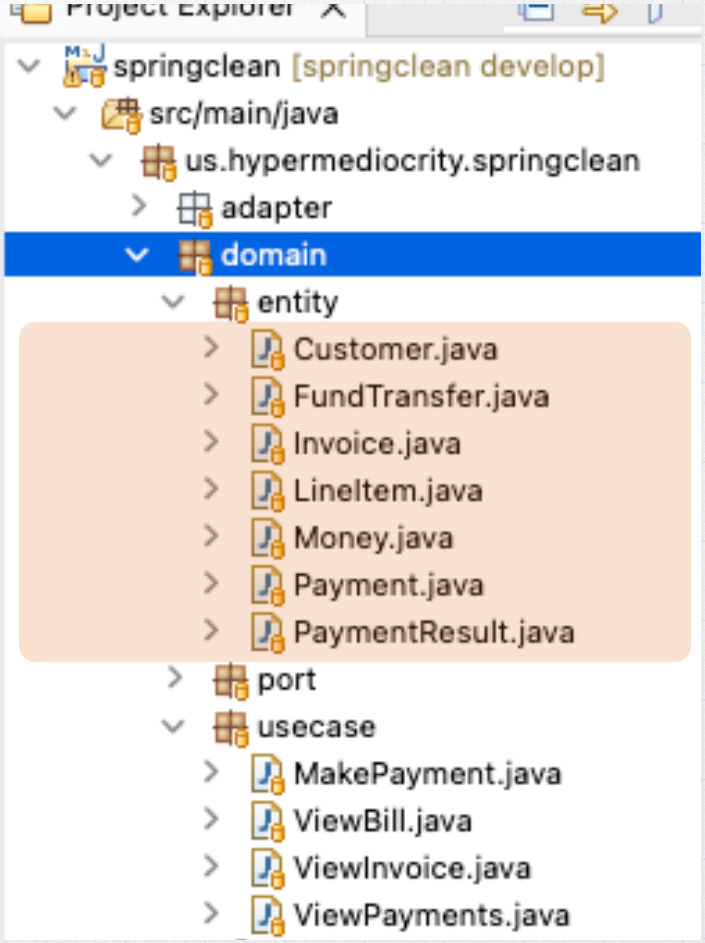

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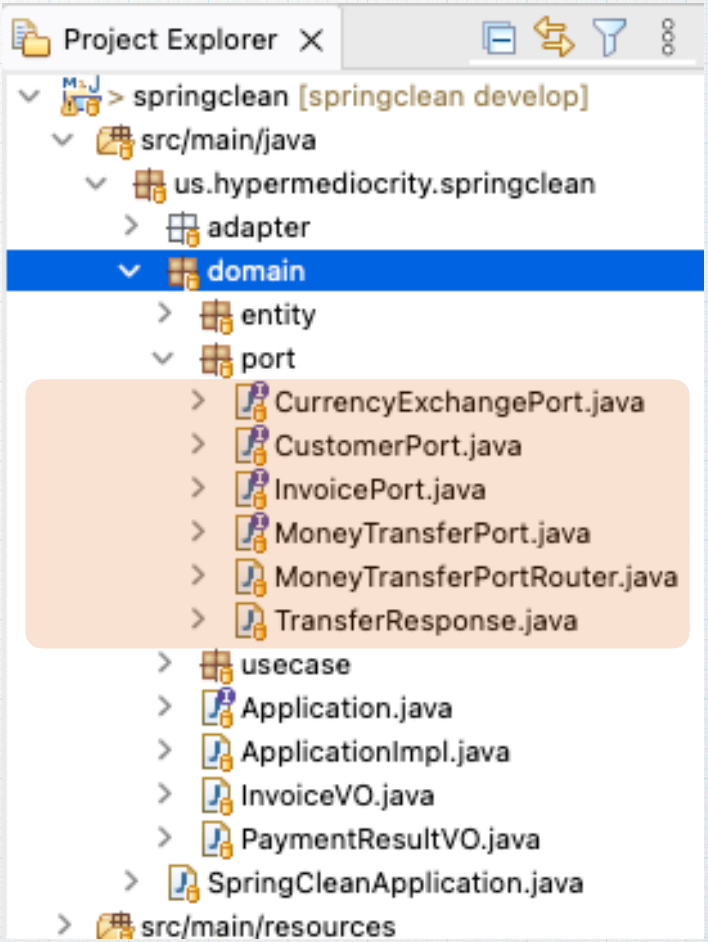
There's ports for Customer, Invoice, CurrencyExchange, MoneyTransfer... Could these be services the usecases call?



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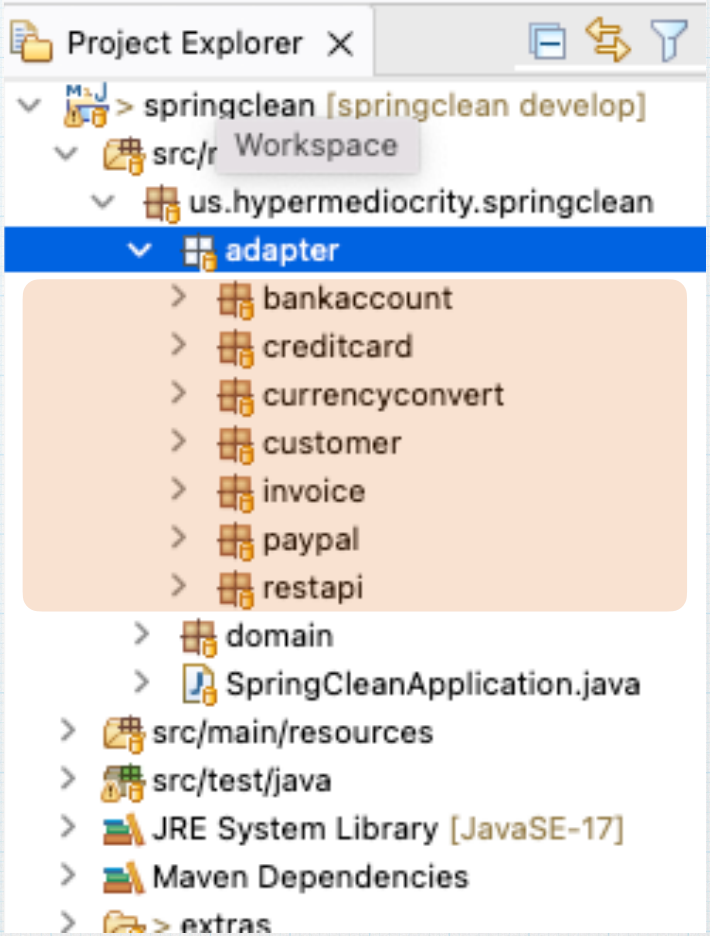
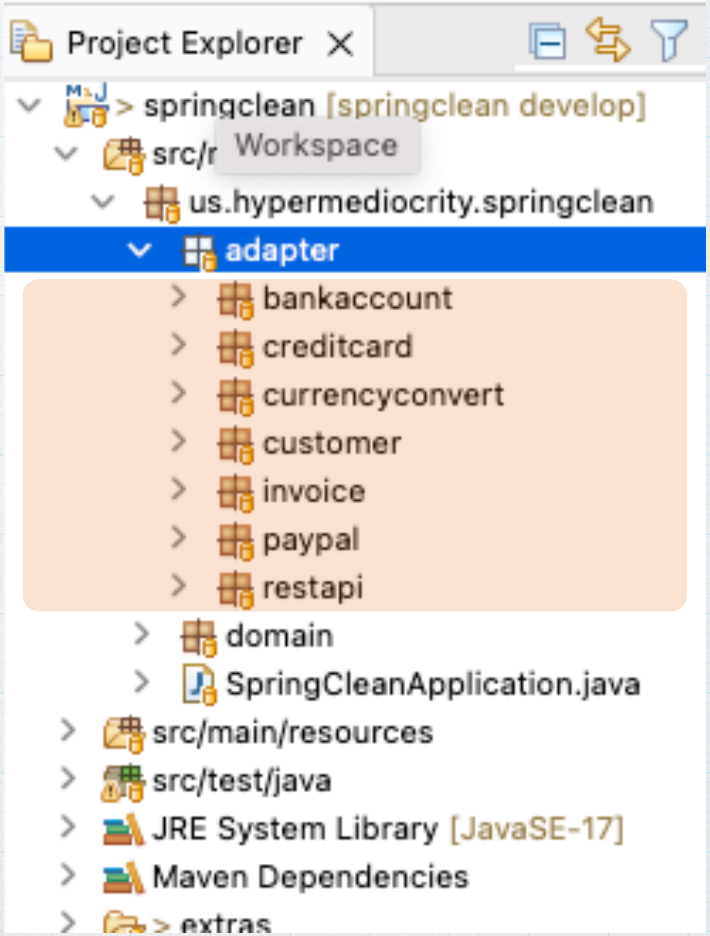


Let's go back to the "adapter" package...

I bet "restapi" is this microservice's API.

Maybe "bank account", "creditcard", and "paypal" are related to the "MoneyTransfer" port?

Annnnd... there's adapters for "currencyexchange", "customer" and "invoice" ... I bet those are somehow related to the same named "ports".



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Your first user story...

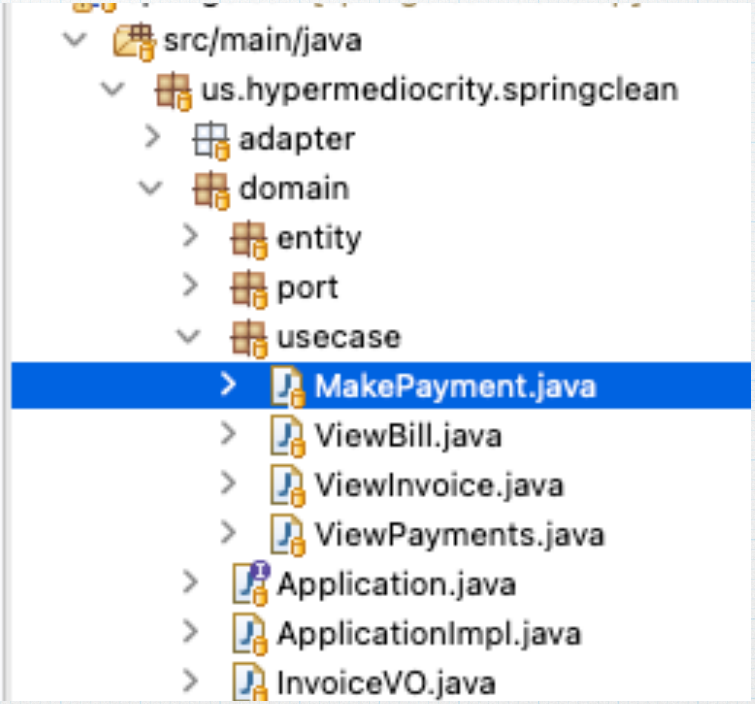
"As CFO, I want to give my customers a 10% discount if they pay within 10 days of the invoice date, so that we get their money earlier."

As a... [user] ...
I want... [desire] ...
so that... [benefit] ...

Your first user story...

"As CFO, I want to give my customers a 10% discount if they pay within 10 days of the invoice date, so that we get their money earlier."

Gee, I wonder where that code change should go ... maybe "MakePayment"?



How well does your project's code organization help the developer know what the application does, what services it communicates with, and where the business logic is?

Architecture with an "a"

"Architecture is the set of design patterns, organization, and conventions that improve the comprehensibility and changeability of the application.

"The goal of these decisions are to make it easy and safe for developers to identify the part of the application that needs to change, and to make that change predictably."