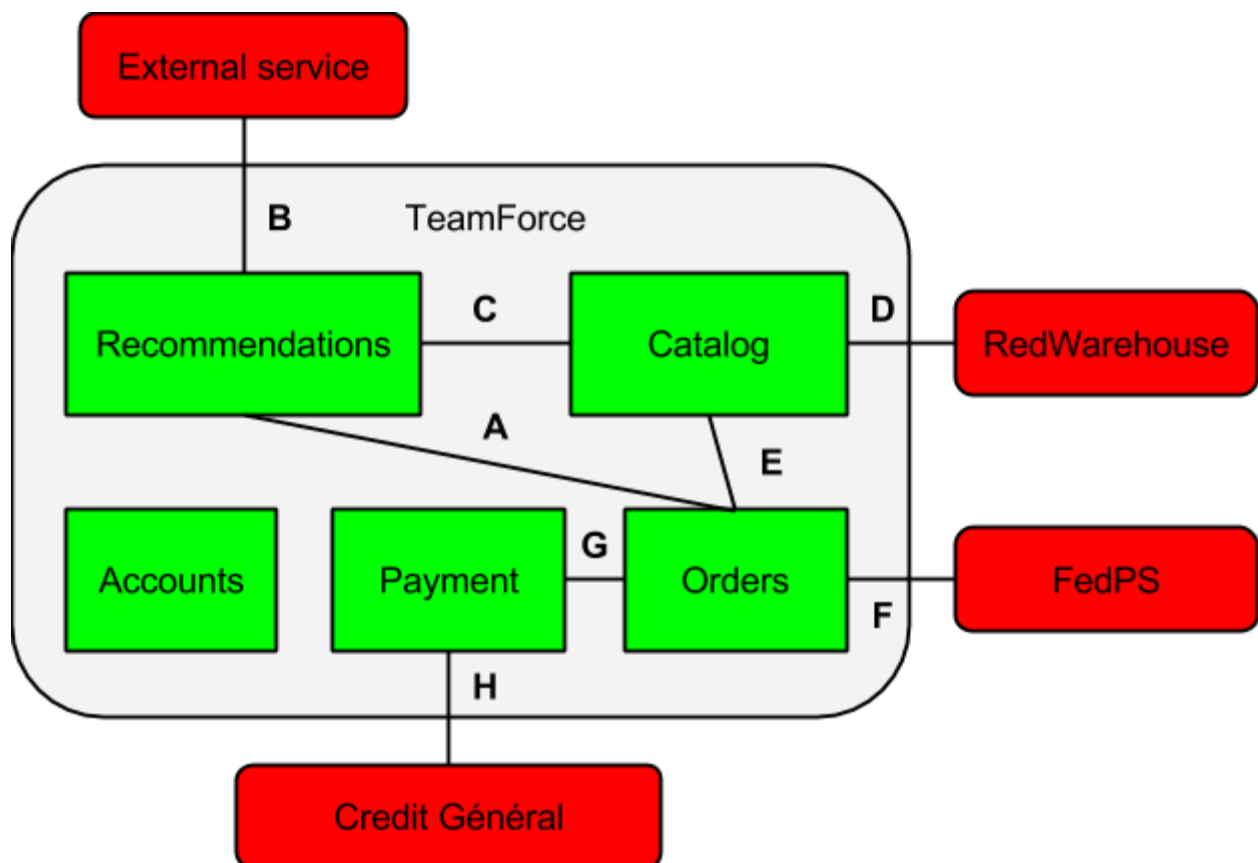


SI5 - SOA

First delivery

The interface is entirely RESTfull as it is becoming the new favorite way of doing web services for modern applications. All the green boxes are services who provides public and private endpoints. The red boxes are external services that are to be integrated later. All the services have public and private endpoints, excepted “Accounts” which is only a CRUD interface to the account database.



The catalog is provides a bridge between the warehouse and the orders, it keeps a virtual stock, notifies the warehouse when a product needs to be delivered (**D**) for an order and forward

order status from the warehouse to the order who gets updated (**E**). The catalog is really a wrapper to access the warehouse service. An order status is also updated directly by the post service (**F**) and the payment service (**G**) who is also linked to an external payment service (**H**).

Once triggered by a customer interface, a manager or a periodical email sending task, and given a customer id, the recommendation system needs to access to his purchase history (**A**). He then needs to read products informations (**C**) to feed to the external recommendation system (**B**) who will provide product recommendations in return.

So CRUD operations are available on Catalog, Orders and Accounts. The recommendation service only provides recommendations based on a customer id and the payment service also provides one service that takes an order id, a customer id and (encrypted) bank account informations that are not kept and needed for every transactions.

An exhaustive list of available services can be found here : <http://soa-polytech.readme.io/v0.1>