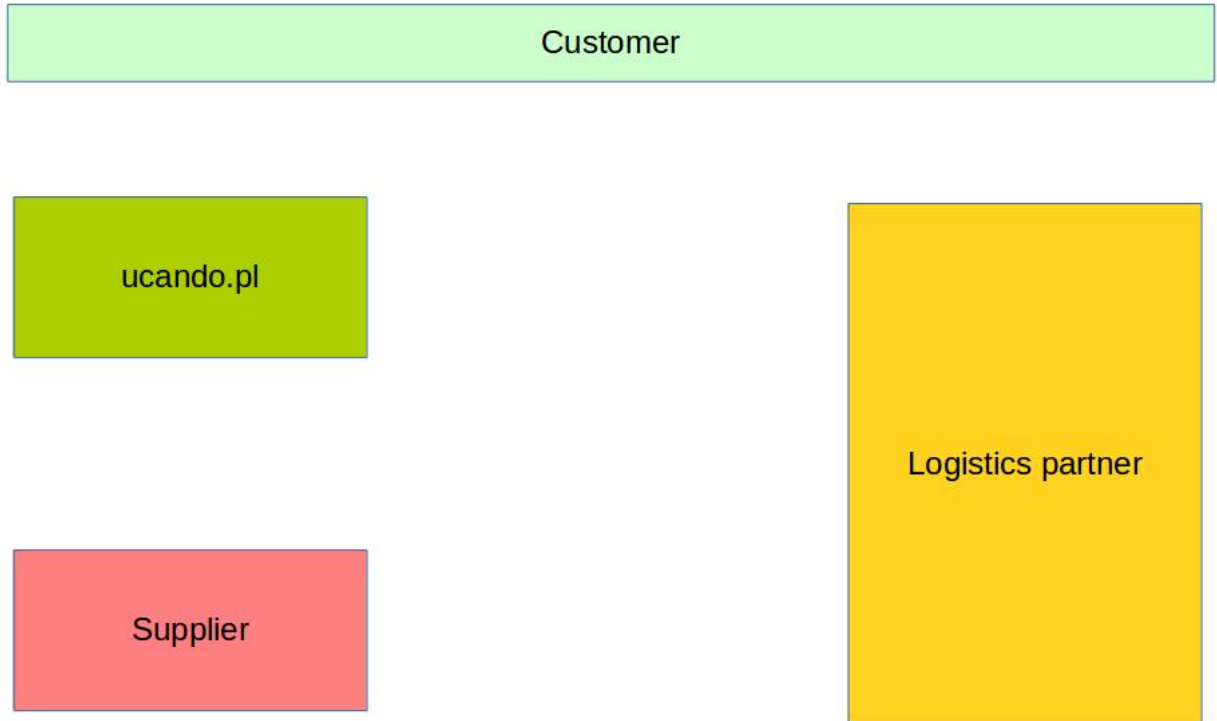


Exercises Senior Backend Developer

From ucando

Interfaces

Your task is to model the interfaces between three technology wise and organizational wise independent parties. The goal is to be able to sell goods to end consumers.



The Webshop UCANDO is the main and first frontend towards the customer. The supplier is going to sell us on a regular basis any amount of goods for a fix price. The job of our Logistics partner is it to pick those goods up and finally deliver it to the end customer.

1. Identify all needed interfaces
2. Name the technical solution (Soap, REST, file exchange, carrier pigeon ...), describe important details and justify your proposal for each identified interface. In case of uncertainties please feel free to offer alternatives.
3. Propose a way of working for the implementation phase.
4. Propose a way of working for the operation phase.

REST

Code a file archive service with an REST interface and a Java-client with the following functionality.

One can upload files with some meta data. The meta data consists of

- file name
- name of the uploading person
- document date
- upload time

In order to upload files one needs to provide a username and a password.

Those files can be searched by

- name of the uploading person
- document date (range from - to)

The found files can be downloaded.

The focus here is **the design of the REST interface**, not the persistence of the data or the backend search functionality. So it's okay to fake the search result e.g. by returning always all uploaded documents.

Frontend

Code a simple html website for your file archive. It's supposed to be a simple file upload page. It should contain all necessary fields and be "pretty". So please style it in a way you'd offer the frontend to users. After the upload you should show a success or failure message.

Operations (don't do this at home)

This is done **on-site**. Of course you can prepare yourself at home.

You will get a freshly install Ubuntu 12.04 server.

- Deploy your two artifacts.
- Setup a web server in front of your services which allows them to be reached from outside.
- Assume you had your data stored in a mysql database. Please install and setup the database and define a matching schema.

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