

# Coding Cafe

## Coding challenge



Implement a set of microservices that will manage the whole administration of the Coding Cafe co-working space.

## Background

The Coding Cafe is the co-working space of choice for the best developers, and as such, the administration wants to implement a flexible and dynamic working structure that can adapt itself to the customer demand. The following responsibilities will need to be fulfilled.

## The Cashier

The Cashier receives the customer and handles the purchase.

- Displays the list of products with their prices
- Receives the purchase from the customer and provides the ticket
- Stores the ticket information in a relational database
- Notifies that the purchase has been processed
- Dispatches the orders according to responsibilities

## The Barista

The Barista prepares the intense and aromatic beverages:

- Receives and prepares beverage orders
- Dispatches the beverage as soon as it is ready to go

## The Assistant

The Assistant gets foodstuffs from the counter and restocks it:

- Receives foodstuff orders
- Fetches foodstuffs from the counter which is a document database

- Restocks the counter when a particular foodstuff has run out
- Dispatches the foodstuff as soon as it is ready to go

## The Pickup Station

The Pickup Station monitors the purchase and notifies the customer:

- Receives beverages and foodstuffs associated with a ticket
- Accumulates the products within the same ticket
- Shows a real time status of what is missing

## Challenge rules

To spice things up a little bit we will add few more coding rules:

- Each microservice is unaware of the others
- The following practices are not allowed:
  - Use of internal common libraries
  - Hardcoded values
- The Barista takes about 15 seconds to prepare a beverage
- The Assistant takes about 5 seconds to pick up the foodstuff from the counter and 10 seconds to perform a full restock
- Each microservice will have full automated test coverage