Interview Task

Your task is to build a small micro-service App using Vert.x

Information about vert.x can be found at vertx.io

The Project should be Maven project that includes 2 modules:

RestVerticle:

This java module will be a vert.x verticle that will expose a REST API (using vert.x) with 4 REST methods:

> POST: Login(username, password) – this method will get the username and password and check if the user can be logged in (user name and password will be saved in file) and will return result in boolean. In the background the module should open a session for each user that logged in.

> POST: Logout() – this method will be logged and his session closed.

> POST: AddOrder(order) – this method will add an order to the user. The order will be sent to the OrderVerticle.

> GET: GetOrders() – this method will return all user orders. You should get the data from the OrderVerticle.

OrderVerticle:

This Java module will be vert.x verticle that manages the orders: add orders to user and return the user orders. All the data will be saved in files! The order will be as JSON and include: order id, order name and date.

- The communication between the two verticles will be using vert.x EVENT-BUS.
- The maven package goal will generate a docker-compose YAML that will contain two containers for the 2 verticles.
- The App will be running in Vert.x cluster mode and you can use Hazelcast as your cluster manager.