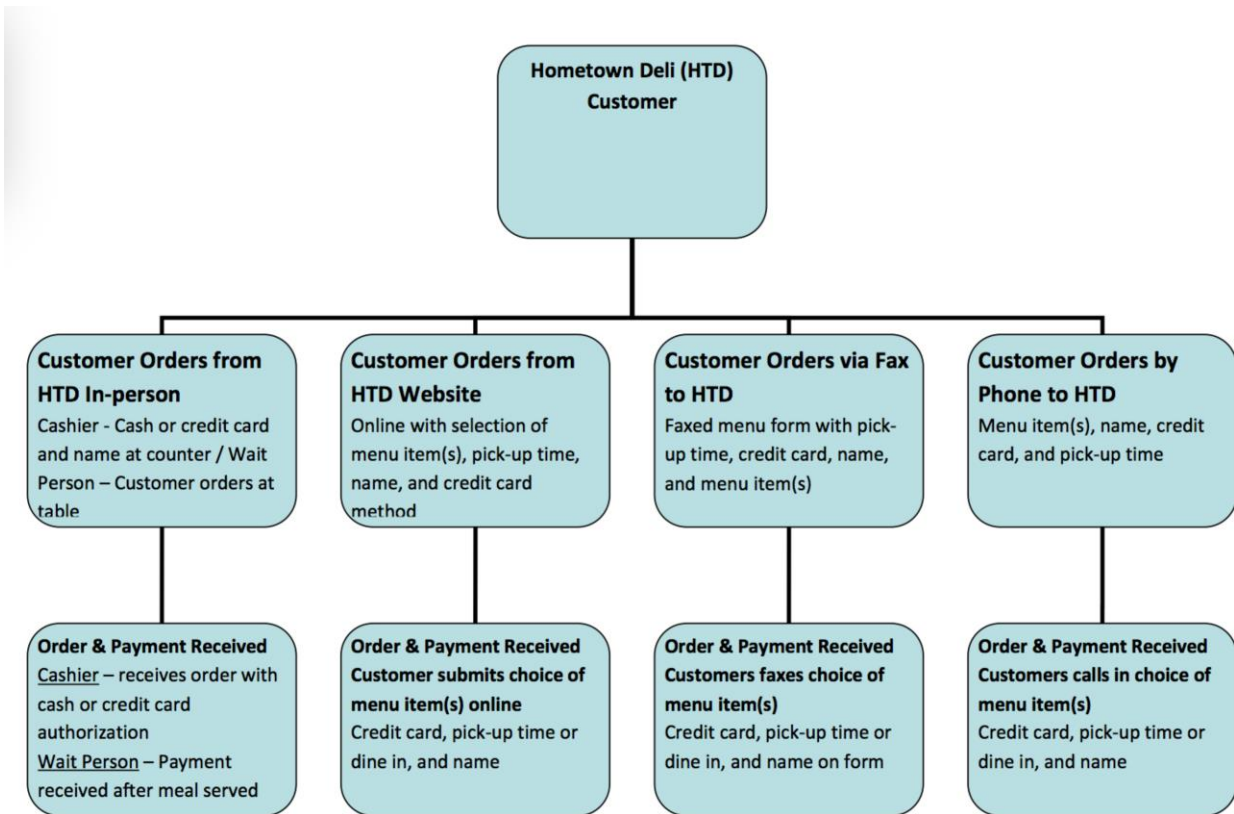


Business Process Engineering Exam
Prof. Ernesto Damiani
17/02/2015

The exam is open book, open notes.

Please make sure that you write your name, surname and student number on your exam paper.

The picture below shows four core processes of a chain of deli shops, HomeTown Deli (HTD), corresponding each to a different way of ordering take-away deli food on the part of HTD customers.



Exercise 1 (8 points)

Provide a business process model for one of the processes shown in the picture, including activities such as payment, food preparation, food packaging and delivery. Add all the activities you deem necessary/useful.

Draw a detailed BPMN diagram of the process, highlighting pools, swimlanes, artefacts and synch primitives.

Esercizio 2 (8 punti)

HTD has decided to offer to other companies the possibility of featuring their logo and advertisements on its food packagings. Provide a value model showing the value transfer interfaces among the different actors (HTD, advertising company, customer, and all other actors you deem necessary/useful).

Would the model be different if HTD f- instead of featuring advertisements – would publish for free announcements by local charities advertising their donation campaigns?

Esercizio 3 (8 punti)

Convert the BPMN diagram of Exercise 1

(a) into a BPEL orchestration, specifying ALL service interfaces invoked by BPEL.

(b) into a WS-CDL choreography.

Esercizio 4 (6 punti)

Use the **GQM (Goal-Question-Metrics)** technique to design a KPI for your process. Specify the Goal whose achievement the KPI will assess and the Question the KPI is an answer to. Discuss how the KPI can be computed and the reports to be generated.