

# ASSIGNMENT 5

Application Engineering & Development - Spring 2018

Due Date : March 3, 2018 at 11:59 PM

AirBNB owns no apartments, Uber owns no taxis', world's most valuable retailer, Alibaba, owns no inventory, etc. How does that happen? Their core competency is in their ability to build good software applications. In this homework problem, we will look at the type business/software architecture required to implement the software required to play the broker model.

Your job in this homework problem is to build a virtual mall where people go shopping online. In this virtual mall, the requirement is that the product(s) must be delivered within two hours from the time you place the order. The shops in the virtual mall are the local retailers in close proximity to where you live or want the product delivered.

Design and implement a complete end-to-end java application to implement the virtual mall concept. Define all use cases required from configuration of mall, retailers and their catalogs and location, to the order booking, payment. and shipping.

You must work in a team of 3 people to get the work done. The grade will count as two home assignments. The quality of the design, the programming code, and the UI are of critical importance. You must hand-in a report summarizing all facets of your application. During the code review, each team member must be ready to explain every aspect of the implementation. Failure to answer any questions will result to an zero grade for the individual team member irrespective of what the others will get.

Grading Criteria:

Object Model	Use Cases	UI	Manage Users	Manage Retailers	Shopping Experience	Reports & Analytics	Late
20	10	5	15	15	15	20	-10