Team project

Problem statement

Design and prototype a grocery online shopping application. Your application will allow users to shop from a contracted store. These stores will be able to update their online store page with items, prices, coupons, and alternative item for item not always available. The user will login to their account, specify their geographical area and access the contracted stores for that area. Once a store is selected, user can shop using the store online page for items they need and select a delivery window of time. When order is submitted an employee will pick their list

* The application must be provably:
  + Of Use – both valuable and usable
  + Robust, portable, scalable, evolvable, etc.
  + Secure – maintain privacy and integrity
* Improvement opportunities
  + Location for employee and selection of available and closer employee to store.
  + Efficiency in resource use, possibility of having employee shops for multiple delivery if they are going to the same neighborhood
  + Creating constraint such as selecting reasonable delivery time allow allows at least 2 hours for shopping if store closes within 2 hours move time for the next day.
  + Etc.

Deliverable

* Analysis report (due 2/15, 3 pts)
  + User Analysis and Requirements Spec
* Test Plan (due 3/2, 1.5 pts)
  + Assessment of “partner” team’s analysis
  + Testing strategy and test cases
* Design report (due 3/27, 3 pts)
  + High-level Design (System and Data Models, etc.)
  + UI screen prototypes and pseudocode of key features
* Design review (due 4/10, 1.5 pts)
  + Assessment of partner team’s design
  + Improvement opportunities
* Team presentation of “working prototype” (4/30 or 5/2, 3 pts)
* Evaluation of partner team’s prototype (5/4, 1.5 pts)
* Individual project assessment (5/4, 1.5 pts)

Working prototype

* Demonstrate the capabilities of your system
  + Present a “walkthrough” of your system
  + Demonstrate engineering and value
  + Show “fitness” with respect to test plan
  + Platform, language, etc. are up to you
  + It is expected that it will not be a “finished product”, so it is OK if elements are incomplete