

Software Carpaccio

(<http://alistair.cockburn.us/Elephant+Carpaccio+exercise>)

Learning outcomes

- How to slice large applications into 1-day to 1-week requests, business perspective
- How to slice application requests into 15-30 minute work slices, programming perspective



Instructions

1. Break into teams of 2-3 people, one workstation per team.
2. **10 minutes:** Preparation - Each team writes down *on paper* the 10-20 demo-able user stories ("slices") they will develop and possibly demo. Each should be doable in 3-8 minutes. No slice is just mockup of a UI, creation of a data table or data structure. All demos show real input & output (not test harness).
3. **15 minutes:** Discussion - Instructor/facilitator leads discussion of the slices, what is and isn't acceptable, solicits ways to slice finer.
4. **40 minutes:** Development - A fixed time-box of 40 minutes, five 8-minute development sprints, clock does not stop. At the end of each sprint, each team shows its product to another team.
5. Debrief

Assignment

Accept 4 inputs from the user:

number of items, a price, a 2-letter state code. a date (only for spreadsheets)

Stage 1: Create a 1-line calculator that computes the price of the order, giving a discount based on the order *value* (not number of items), adding state tax based on the state and the discounted order value.

Order value	Discount rate
\$ 1,000	3 %
\$ 5,000	5 %
\$ 7,000	7 %
\$10,000	10 %
\$50,000	15 %

State	Tax rate
UT	6.85 %
NV	8.00 %
TX	6.25 %
AL	4.00 %
CA	8.25 %

Stage 2 for spreadsheets only:

Create a set of orders from different months and different states.

Produce a report as histogram of sales results by state, then a second sales report histogram of sales results by month.

Create a Powerpoint presentation that shows your sponsors what you have created, with the formula you used, sample inputs and outputs. the sales history and the graphs.