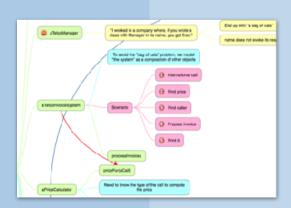


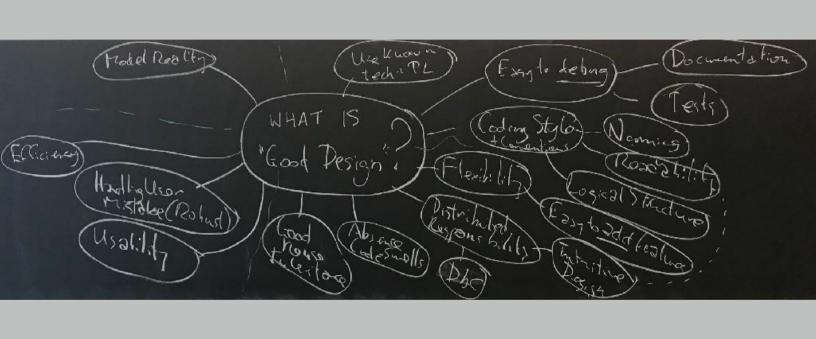
9. Advanced Design Lab

Oscar Nierstrasz Andrei Chis

Based on material by Jorge Ressia



What is good design?



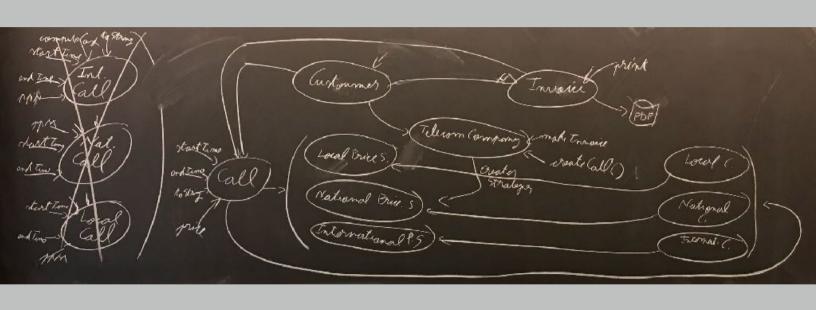
Task: Model a system that prints invoices for the customers of a Telco.

- -There are 3 different types of calls: *local*, *national* and *international*.
- -The cost of an international call is 2CHF per minute.
- -The cost of a national call is 1.50CHF per minute.
- -The cost of a local call depends if it was made during peak hour or not.
 - -Peak hour cost is 1CHF per minute
 - -Off-peak cost is 0.50CHF per minute.

Print the invoice of Andrei who made a 2 minutes national call, a 10 minutes international call, 3 local calls at peak time of 2 minutes each, and a local call at off-peak time lasting 20 minutes.

Custommer Invaire Telecom Company & make travail

- -There are 3 different types of calls: *local*, *national* and *international*.
- -The cost of an international call is:
 - -Peak hour cost is 2CHF per minute.
 - -Off-peak cost is 1.50CHF
- -The cost of a national call is:
 - -Peak hour: 1.50CHF per minute.
 - -Off-peak cost is 1.25CHF per minute
- -The cost of a local call is:
 - -Peak hour cost is
 - -1CHF per minute in the weekend
 - -0.90CHF per minuted in the workweek
 - -Off-peak cost is 0.50CHF per minute.



- -There are 4 different types of calls: *local*, *national*, *international* and *EU*.
- -The cost of an EU call is 0.1 per minute
- -The cost of an international call (not EU) is:
 - -Peak hour cost is 2CHF per minute.
 - -Off-peak cost is 1.50CHF
- -The cost of a national call is:
 - -Peak hour: 1.50CHF per minute.
 - -Off-peak cost is 1.25CHF per minute
- -The cost of a local call is:
 - -Peak hour cost is 0.90 CHF
 - -Off-peak cost is 0.50CHF per minute.
 - -In the same canton the cost is always 0.45

- -Easter discounts for local calls
 - 20% off one week before and after Easter
 - 30% off during the Easter day
- -Favourite number
 - free on weekend
 - 50% off for all local calls otherwise



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