









People learn over time and we can learn from each other.





Alex Hidalgo

Director of Site Reliability Engineering



@ahidalgosre

alex-hidalgo.com



nobl9.com



Alex Hidalgo

Former server, bartender, line cook, busser, runner, and restaurant manager

@ahidalgosre

alex-hidalgo.com



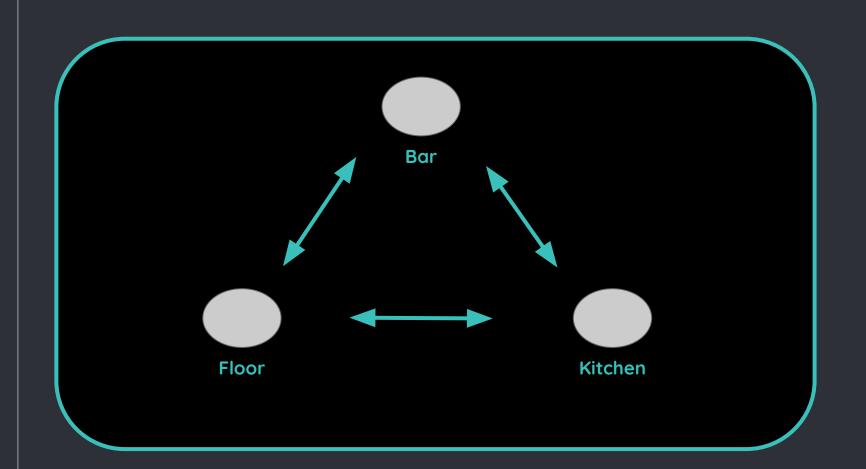


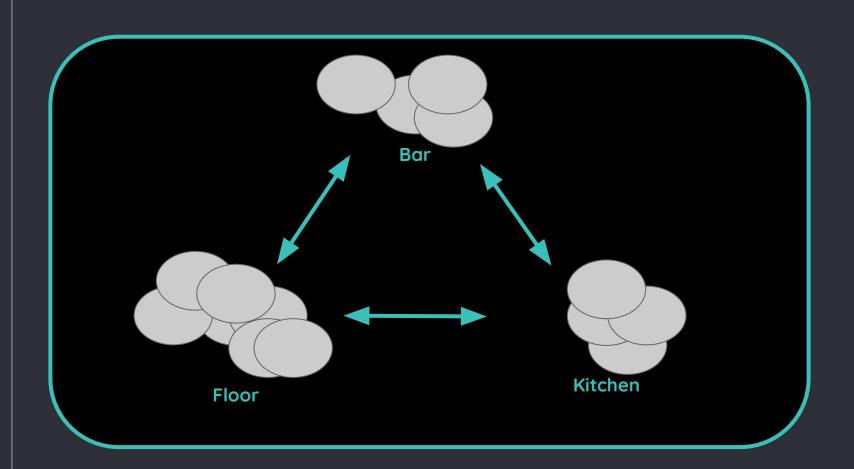


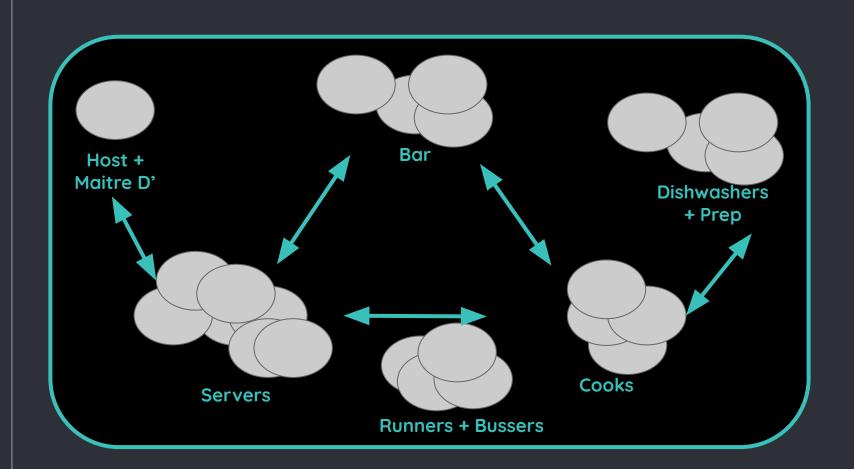


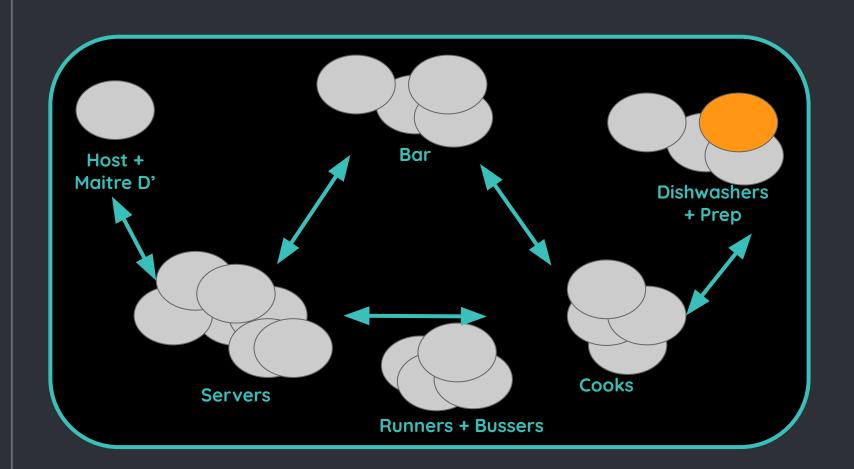








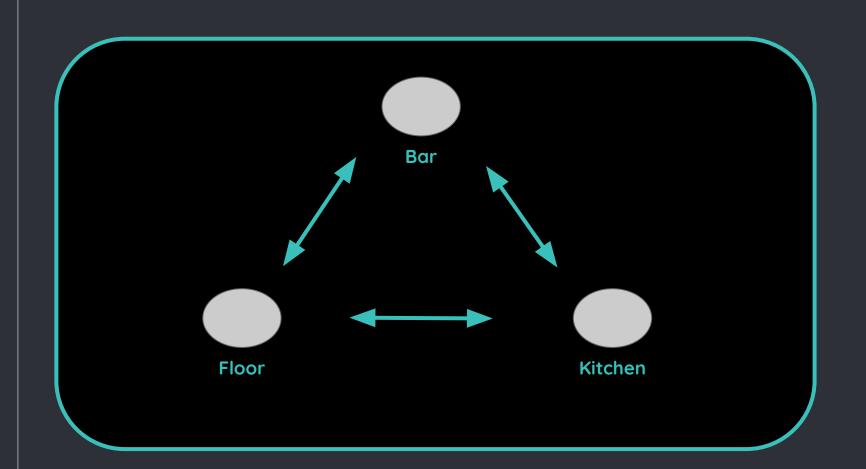








Restaurants are complex systems made up of component complex systems.



The Floor

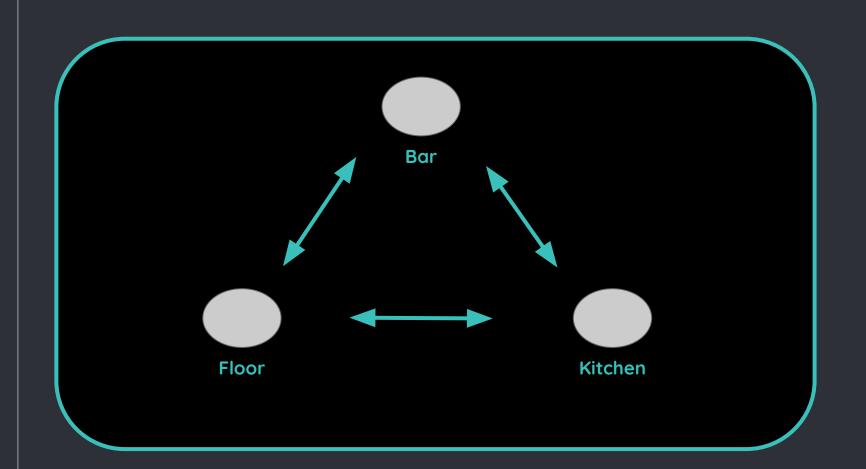
- Primary interaction for most customers
- Takes requests and fulfills them
- Has dependencies on the bar and the kitchen

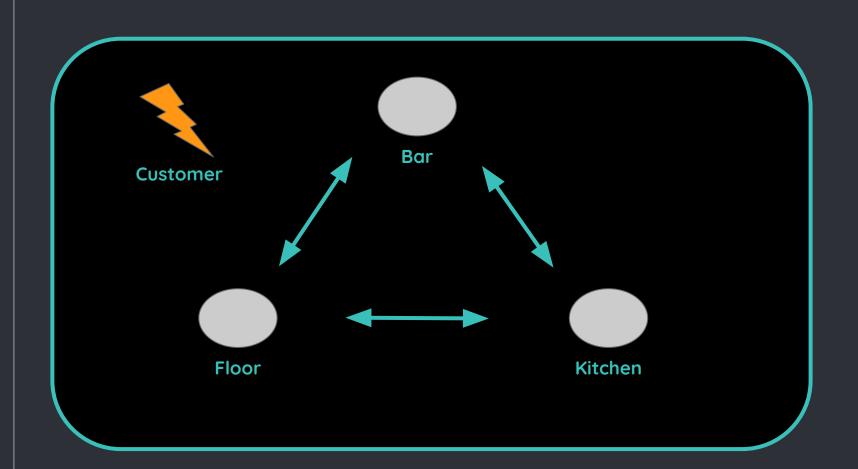
The Bar

- Primary interaction for some customers
- Secondary interaction for others
- Often required for the floor to operate
- Soft dependency on the kitchen

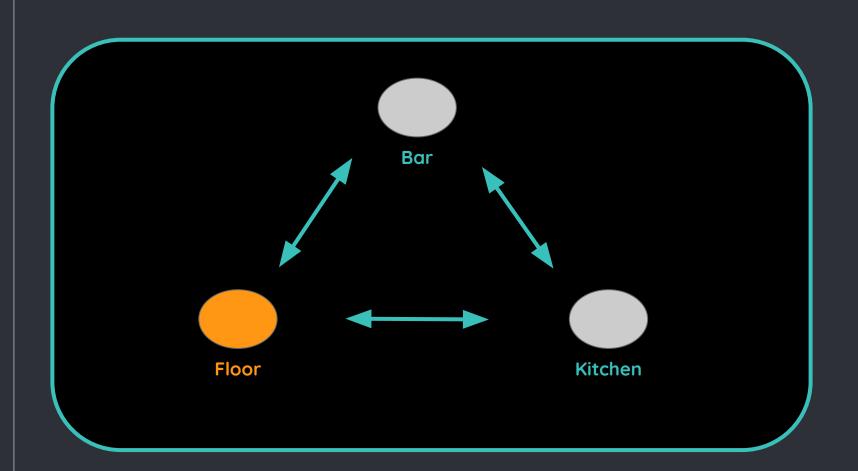
The Kitchen

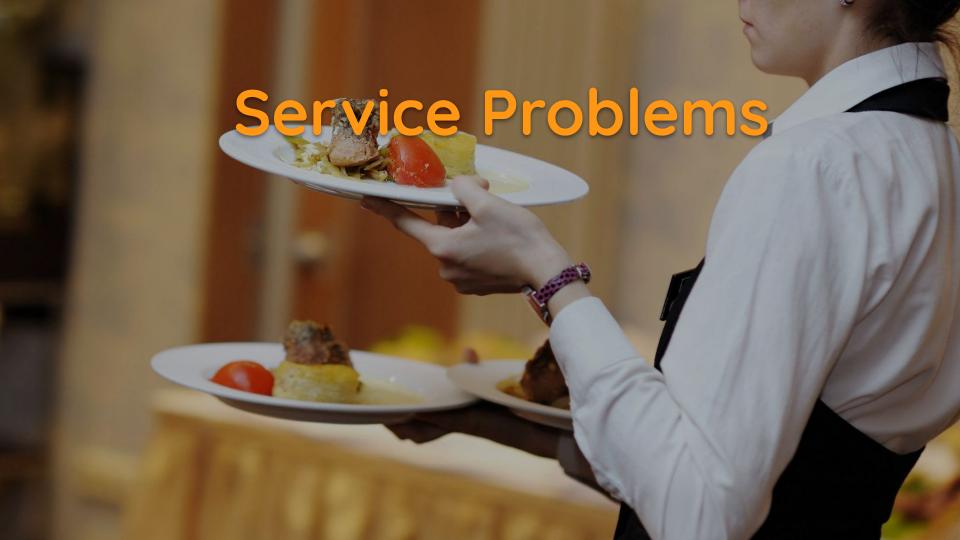
- No direct customer interaction
- Most important backing service
- Always required for the floor to operate
- Sometimes required for the bar to operate











Failures on the Floor

- Food delivered late
- Badly cooked food
- Wrong food brought out
- Instructions not followed

Food Delivered Late

Problem:

Food takes longer than customer requirements

Equivalence:

Latency

Food Delivered Late

- Solution:
 - Hire more kitchen staff
 - Hire runners
 - Seat better number of customers per section

Food Delivered Late

- Solution:
 - Hire more kitchen staff (resources)
 - Hire runners (routing service)
 - Seat better number of customers per section (load balancing)

Badly Cooked Food

Problem:

Food is not acceptable

Equivalence:

Errors

Badly Cooked Food

- Solution:
 - Hire more staff
 - Simplify recipes
 - Remove difficult dishes

Badly Cooked Food

- Solution:
 - Hire more staff (resources)
 - Simplify recipes (refactoring)
 - Remove difficult dishes (deprecation)

Wrong Food Brought Out

🗅 Equivalence:

Data correctness

Solution:

Hire an expediter

Wrong Food Brought Out

Equivalence:

Data correctness

Solution:

Hire an expediter (verification)

Instructions Not Followed

- 🗅 Equivalence:
 - Bug

Solution:

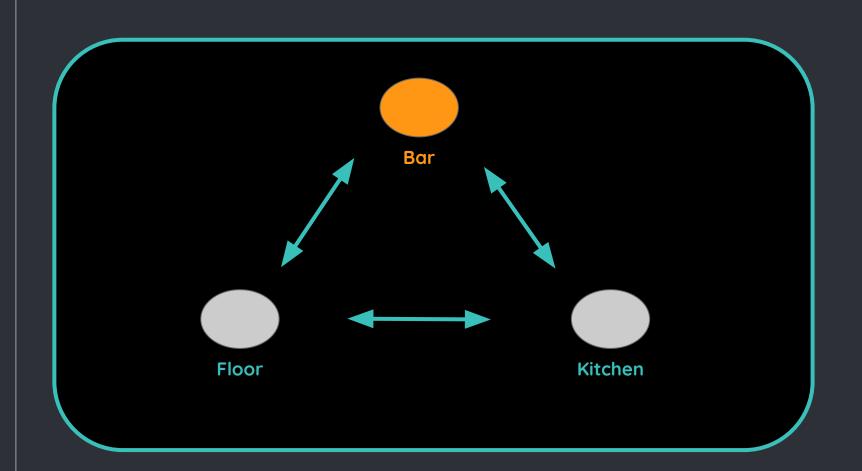
Fix the dish ASAP

Instructions Not Followed

- 🔶 Equivalence:
 - Bug

Solution:

 Fix the dish ASAP (quick feedback loops and releases)





The Bar vs The Floor

- Requests are ad-hoc
- Ambiguous load requirements
- Latency requirements stricter
- Primary data source

Failures at the Bar

- Drinks made late
- Wrong drink mixed
- Customers greeted/served late
- Customers not consulted correctly

Multiple User Classes

- Servers
- Direct Customers

Multiple Direct Customer Classes

- Beer/Wine
- Simple Mixed Drinks
- Advanced Mixed Drinks
- Non-alcoholic Drinks



Beer/Wine Drinkers

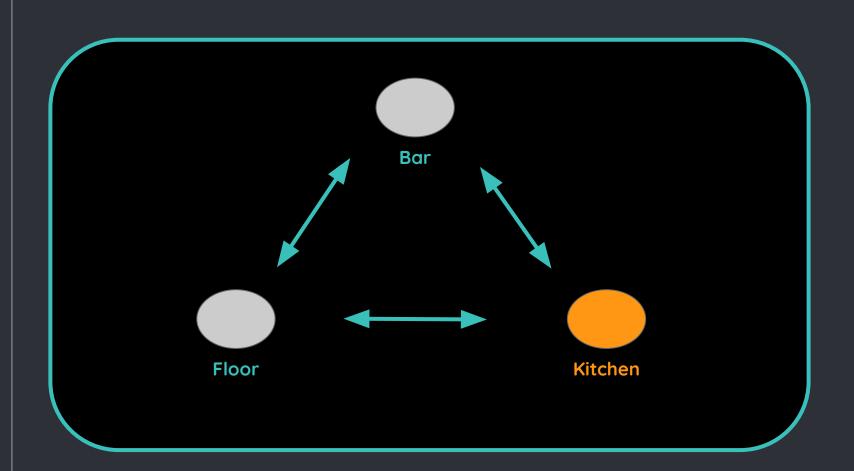
- Basic imbibers
- Experts
 - What kind of sours do you have?
 - What would you recommend to go with the fish special?
 - QoS is important

Mixed Drinks

- Knowledge of many drink types (caches + databases)
- Recipes for custom drinks (runbooks)

Non-alcoholic Drinks

 Cannot mess this up (data correctness + integrity)





Incident Management

- Preparation
- Established Hierarchy
- Formalized Communications



Mise en Place - "everything in its place"

- Prepare what you need
- Make what you need accessible
- Communicate what you have

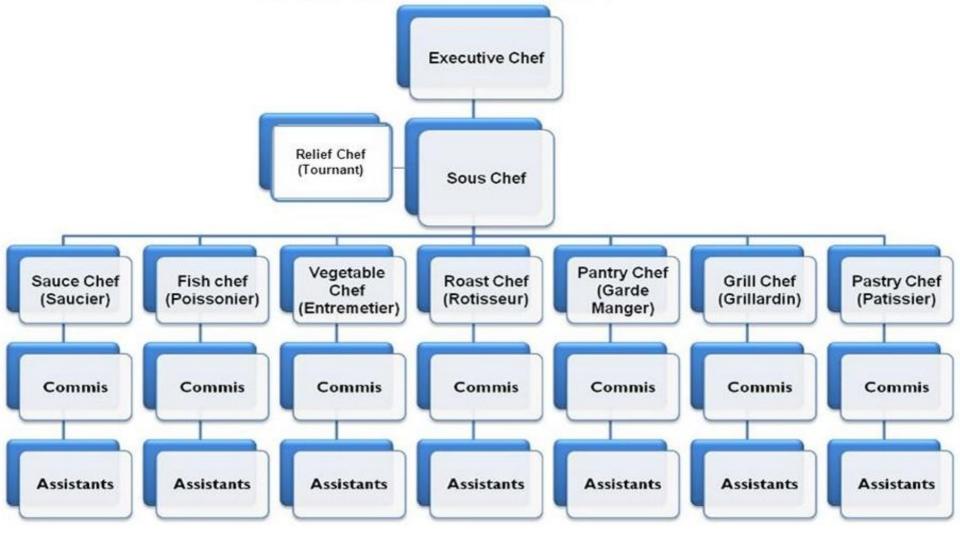
Mise en Place - "everything in its place"

- Noun
 - "Is your mise ready?"
- Verb
 - "Mise the mushrooms."
- State of mind

Incident Preparedness

° "I am in my place."





Established Hierarchy

- Everyone knows who is in charge
- Everyone knows who is doing what
- Everyone knows what is expected



Kitchen Slang

- Is its own language
- Differs slightly from restaurant to restaurant
- But is always coherent

Some Examples

Yes, chef!	Acknowledged!
\$THINGs all day!	In total I need \$THINGs!
Fire \$THING!	Do \$THING now!
In the weeds.	Can't keep up.
Behind/Hot/Sharp!	DON'T MOVE!

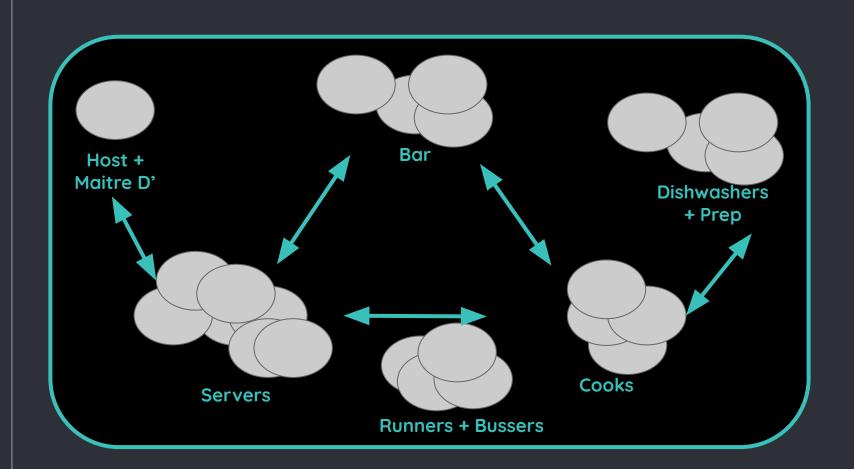
All day!

- Differentiates from working off of tickets
- Tickets describe concrete areas of work that need to be accomplished in order to satisfy the requirements of a single table



That might sound familiar.







Thank you!





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@ahidalgosre alex-hidalgo.com

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