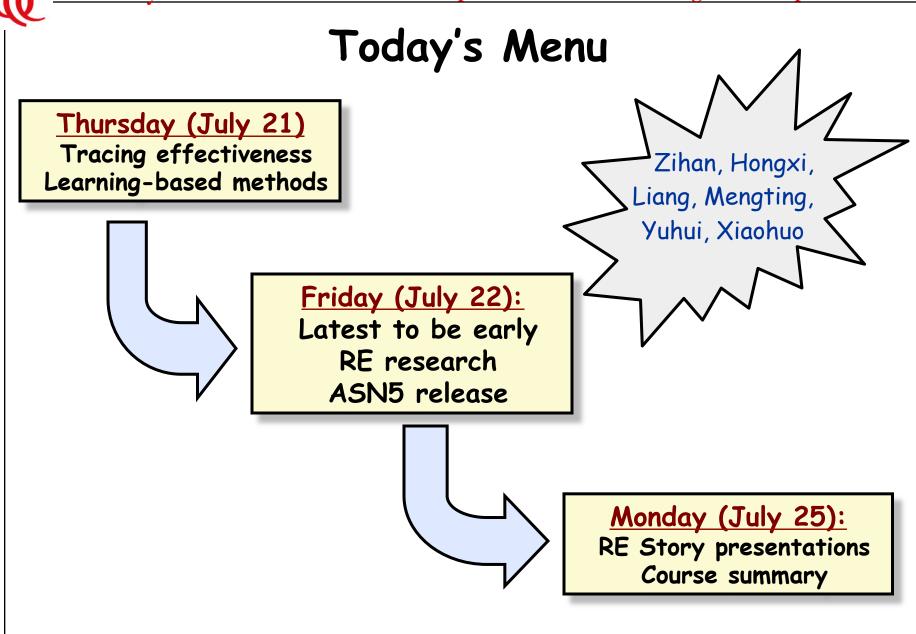
# Requirements Engineering (Summer 2022)

Prof. Nan Niu (nan.niu@uc.edu)

https://github.com/nanniu/RE-Summer2022



# Monday's RE Story Presentations

→ 5-10 minutes per person & all the students are required to attend all the presentations

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Hewei
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**\$Linfang** 

**₩Wei** 

**Wenying** 

**Yingkai** 

**♥**Ting

**\\$Tianlong** 

**Sihai** 

**Yinghan** 

→ Followed by Course Summary

ASN5: i\* model slicing for feature interaction

→ Deadline: 11:59pm, Friday, July 29, 2022

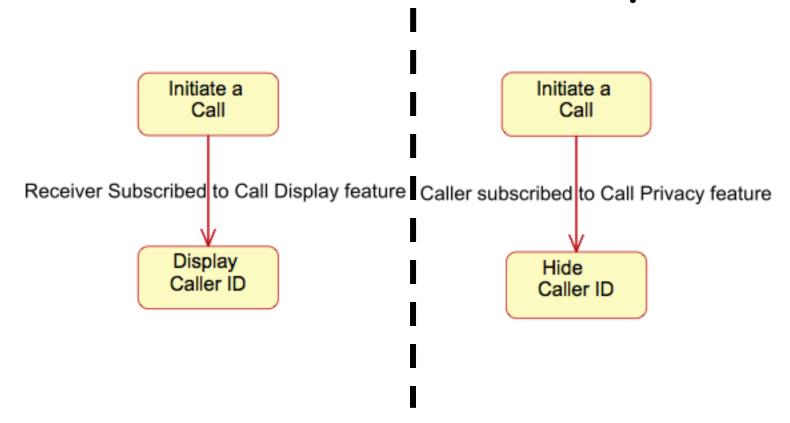
→ What is feature interaction?

If "E, F1 |- R1" and "E, F2 |- R2",

but "E, F1||F2 (not |-) R1^R2",

then F1 and F2 interfere with each other (or there is a feature interaction between F1 and F2)

## Feature interaction examples



→ Example #2: My iPhone (see steps later)



### Feature interaction more examples

#### →Example #3:

\$Close door (F1) and then lock
door (F2) → works
\$Lock door (F2) and then close
door (F1) → doesn't work



#### →Example #4: Tuesday, July 19, 2022 (Day06)

♦ Present as a co-host (F1) → works

♦ Polling (F2) → works

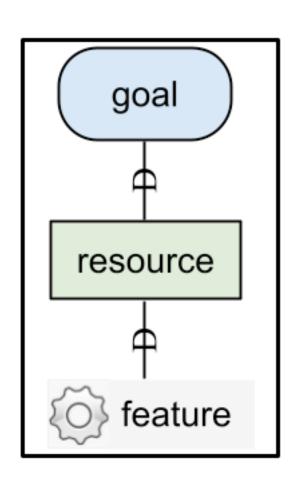
# Many reasons why features interact

→One of them is resource contention

→ Goal model slice

\$ASN5 asks you to build at least one goal model slice for each given feature to model feature interactions

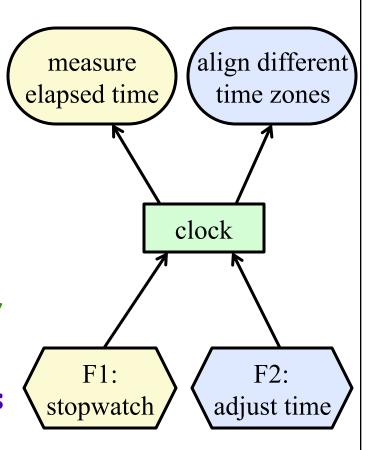
The same 3 features as ASN1





## Here's an example

- Goal model slice = Resource dependency of two features & one resource
  - > Using plain arrows (without 'D') is fine (because we're only modeling resource dependencies)
  - > Using colors to denote different dependencies is recommended
  - Explicitly labeling features (that is,F1 and F2) is a must
- Textual description of the steps to reveal feature interaction





# Only the steps without actual testing

- 1. Start "F1: stopwatch" at 10:00pm
- 2. Change the system time to the <u>next day</u> to mimic (or simulate) traveling to a different time zone, and hence trigger "F2: adjust time"
- 3. The <u>expectation</u> is to observe the effect of "F1: stopwatch" accurately reflect the elapsed time, even in the presence of a potentially interacting F2

Describe the *most efficient* sequence of testing steps

#### ASN5 notes

- Three features are provided, and for each feature, please build at least one goal model slice and describe the testing steps & the expectation
- \$Let's focus on feature interaction of *two features* for ASN5, please stay simple & pairwise for now
- Although the <u>DEAD</u>line is 11:59pm, Friday (July 29), feel free to email me (<u>nan.niu@uc.edu</u>) your ASN5 solution by attaching PDF, PNG, ... files as soon as you're done with it. I'll email you back my comments and your grade

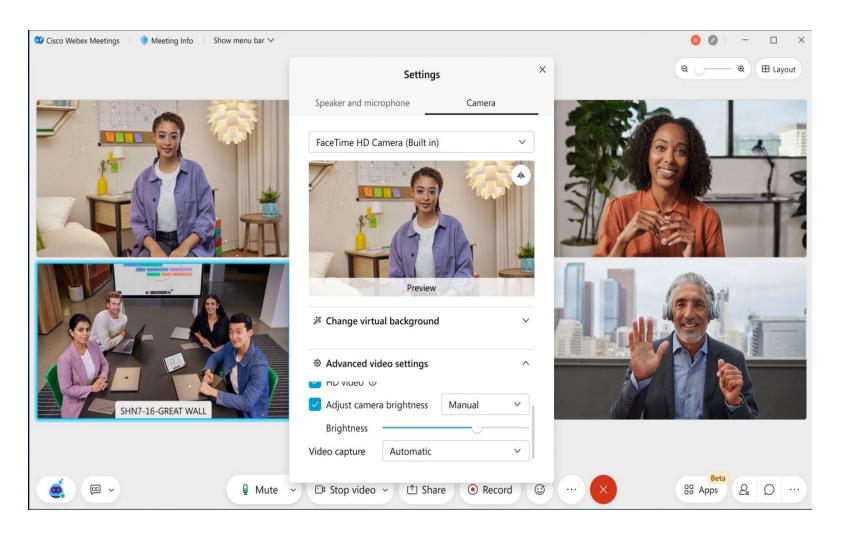


#### F1: Adjust camera brightness

Under the camera settings, there's a new option to adjust the camera brightness. Enable this feature by checking the box to automatically adjust the camera brightness. This can help with low light or other challenging lighting environments. You can also select Manual in the drop-down menu to enable this feature. This enables a slider control, allowing you to manually adjust the camera brightness level to the desired level.



# F1: Adjust camera brightness (Cont'd)



#### F2: Optimize your voice

You can filter out background voices and noises that would normally be picked up by your mic from your voice to create a better and more engaging experience during your meetings and events.

#### F3: Attendance and registration reports

As a host you have access to meetings and events attendance and registration reports in one place to better understand a meeting or event's turnout. In the Registration report view, you can look up someone's registration. You can choose to view individual registration by clicking on the registrant's name and export reports to a CSV formatted file that is available for both reports.

#### F3: Attendance and registration reports (Cont'd)

