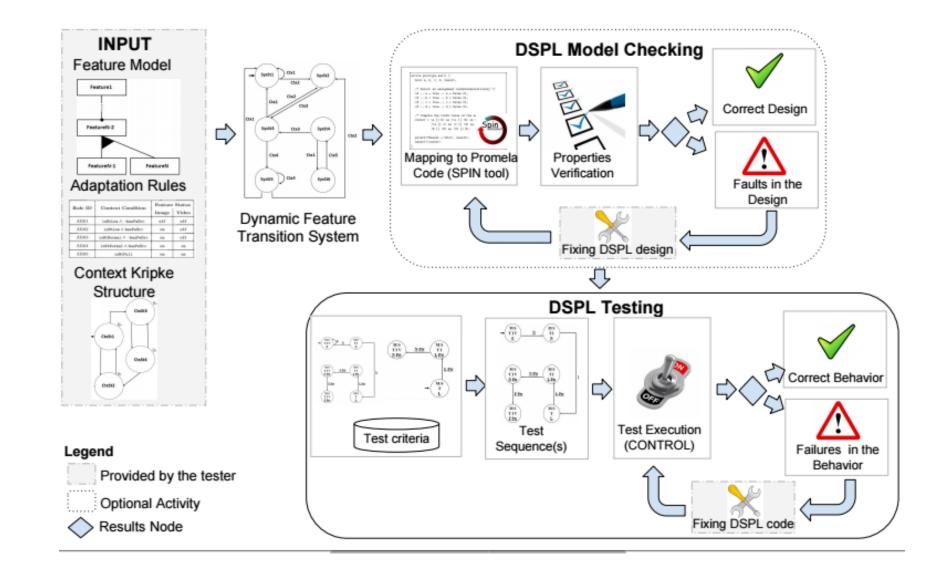
## Treinamento – TestDAS tool

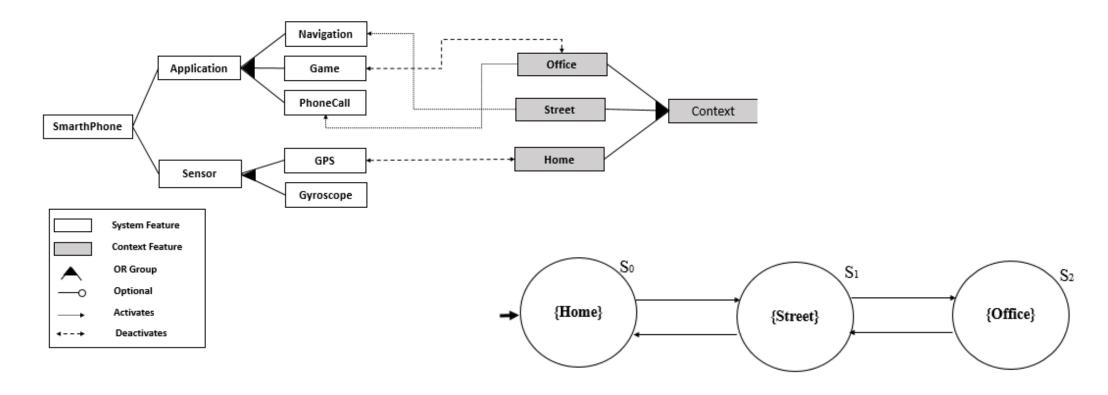
Ismayle Santos (July, 2017)

#### TestDAS Overview



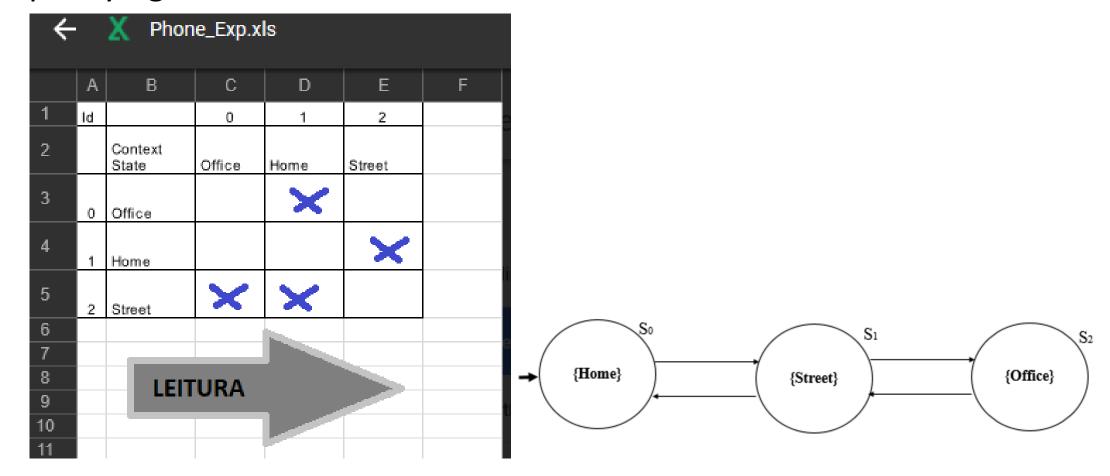
### Using TestDAS with SmartPhone DSPL

Context Evolution Model

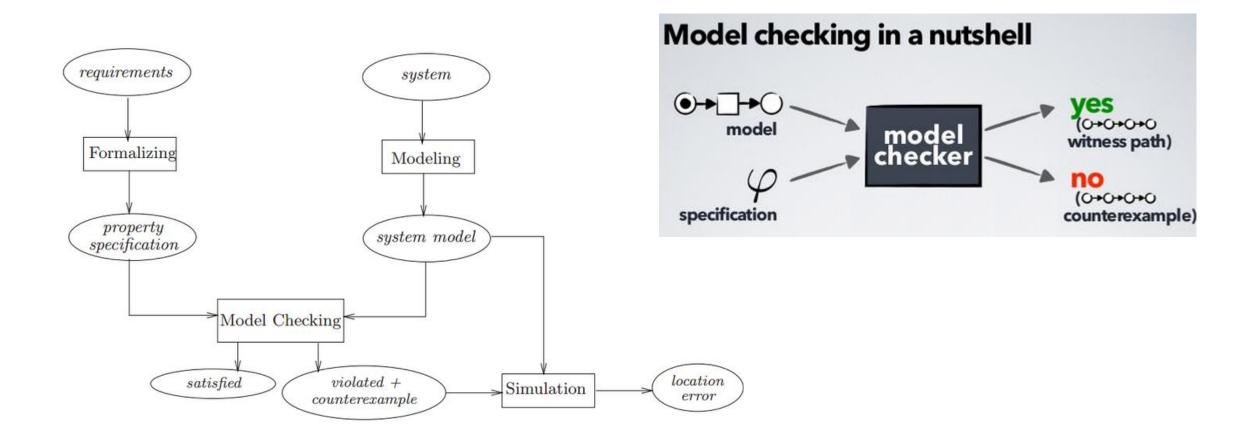


#### Using TestDAS with SmartPhone DSPL

Specifying the Context Evolution Model in the TestDAS Tool



#### Model Checking



#### Model Checking

LTL Temporal Operators Meaning.

Operator	Meaning
$\bigcirc \phi$	" $\phi$ is true in the next state of the path."
$\Diamond \phi$	"eventually, $\phi$ is true in some state in the path."
$\Box \phi$	"always, $\phi$ is true in all states in the path."

- Example: <> BtFull
- Model Checking Log
  - Varibles values
    - 0 = false
    - 1 = true

```
[((numAnswers!=4)
356:
        proc 5 (Controller:1) Mobiline9.pml:56 (state 7)
358:
        proc 6 (AR1:1) Mobiline9.pml:64 (state 4)
                                                        [buss!done]
360:
        proc - (pro53:1) spin nvr.tmp:127 (state 1)
                                                        [(!(!(current)))]
        proc - (pro53:1) spin nvr.tmp:127 (state 1)
                                                        [(!(!(current)))]
362:
                numAnswers = 4
        proc 5 (Controller:1) Mobiline9.pml:57 (state 10)
                                                                [else]
365:
        proc 5 (Controller:1) Mobiline9.pml:59 (state 15)
                                                                [buss!adapted]
367:
spin: trail ends after 368 steps
                BtFull = 0
                BtLow = 1
                Text = 1
               Image = 0
                allEvents = 0
                ShowEvents = 1
                numAnswers = 4
        proc 4 (ContextManager:1) Mobiline9.pml:38 (state 48)
368:
```

#### Using TestDAS with SmartPhone DSPL

Test Sequence

```
"id":1.
"contextState":[
   "Home"
"expectedFeatureStatus":[
"actualFeatureStatus":[
"contextState":[
  "Street",
"expectedFeatureStatus":[
   "Navigation"
"actualFeatureStatus":[
```

# Thank You