

Lab 3 Report- Group 19

Test Frames Generated:

195 Test Frames

Questions:

1- The meeting event code field is optional. How can you handle this field in TSL?

Before handling the optional behavior of meeting event code, we must also account for what happens when “Shop With Miles” is enabled. This means, we must first add a property to Shop With Miles where when it is enabled we disable or place “Meeting Code” in the <n/a> state.

Aside from that behavior, this field would in theory have three states:

Valid Meeting Code: We can test this freely [if !ShopWithMiles]

Meeting Code Blank: We can have this as a state but realistically it only needs to be tested once [if !ShopWithMiles] [single]

Invalid Meeting Code: Here we can just treat this as an error and produce a single test frame for this [if !ShopWithMiles] [error]

2 - Notice that the some fields (e.g., “My dates are flexible” and “Include Nearby Airports”) are mutually exclusive. How can you use the [property] and [if] features of the TSL specification language to reflect this?

There are a few fields which become enabled or disabled depending on which fields are selected. One example would be the behavior where checking “Shop With Miles” prevents the user from selecting “Refundable Fares”.

In TSL we can handle this by first giving all of these fields “Enabled” and “Disabled” states, then we can assign properties to these fields for their “Enabled” state. Using this property we can simply use the check [if !property] for both its “Enabled” and “Disabled” state so that if that property is true, the field that is mutually exclusive (in this case “Refundable Fares”) will become <n/a> since we are no longer able to interact with this field. If that property is false, we can then test the various states of the field.

3 - When the Shop with Miles is selected, how does the form change? How may you reflect this in the TSL?

As mentioned before, we select “Shop With Miles” we see a few changes in the form:

- “My dates are flexible” is automatically selected (if not selected)
- “Refundable Fares” can no longer be interacted with
- “Meeting Code” field is no longer available

In regards to “My dates are flexible” being auto selected, we didn’t need to reflect in TSL since we chose to use Enabled/Disabled states meaning we’d go through all possible combinations regardless.

Disabling “Refundable Fares” and “Meeting Code” just required checking if our “Shop With Miles” property was active and if not, we can test these fields

Below is how we accomplished this behavior within our TSL:

```
Search Options:
  Shop With Miles:
    Enabled. [property SWM]
    Disabled.
  My Dates Are Flexible:
    Enabled. [property FLX]
    Disabled.
  Refundable Fares:
    Enabled. [if !SWM] [property RF]
    Disabled.[if !SWM]
  ShowFares:
    Include Nearby Airports. [if SWM || !FLX] [property INA] [else] [error]
  Meeting:
    Meeting Code Field Blank. [if !SWM] [single]
    Valid Meeting Code. [if !SWM]
    Invalid Meeting Code. [if !SWM] [error]
```