

IOS Locators Practice

Required Practice

We are almost ready to start performing test automation over IOS apps. Before that, we must first make sure to understand how to properly identify elements using locators on IOS apps.

Check the following guide for finding elements on IOS:

Annotations:

@iOSFindBy: Supports only (xpath, accessibility, ClassName)

@iOSXCUITFindBy: (iOSClassChain, iOSNsPredicate, xpath, accessibility, ClassNames)

Element with Accessibility:

```
@iOSFindBy(accessibility = "ChangeShip/Dates")
private IOSElement sailingDatesLabel;
```

Element with xpath:

```
@iOSFindBy(xpath = "//XCUIElementTypeButton[@name='ChangeShip/Dates']")
private IOSElement sailingDatesLabel;

@iOSXCUITFindBy(xpath =
    "//XCUIElementTypeStaticText[@name='Day']/preceding-sibling::XCUIElementTypeOther[@visible='true']/following-sibling::XCUIElementTypeStaticText[2]")
private IOSElement daySelected;

//XCUIElementTypeStaticText[contains(@name,'Ship Time')]
//XCUIElementTypeImage[@name='Something']/..
//XCUIElementTypeImage[@name='Something']/
```

Same element with iOSClassChain:

```
@iOSXCUITFindBy(iOSClassChain = "***XCUIElementTypeNavigationBar[`name == 'Privacy policy'`]/XCUIElementTypeButton")
```

iOSPredicate:

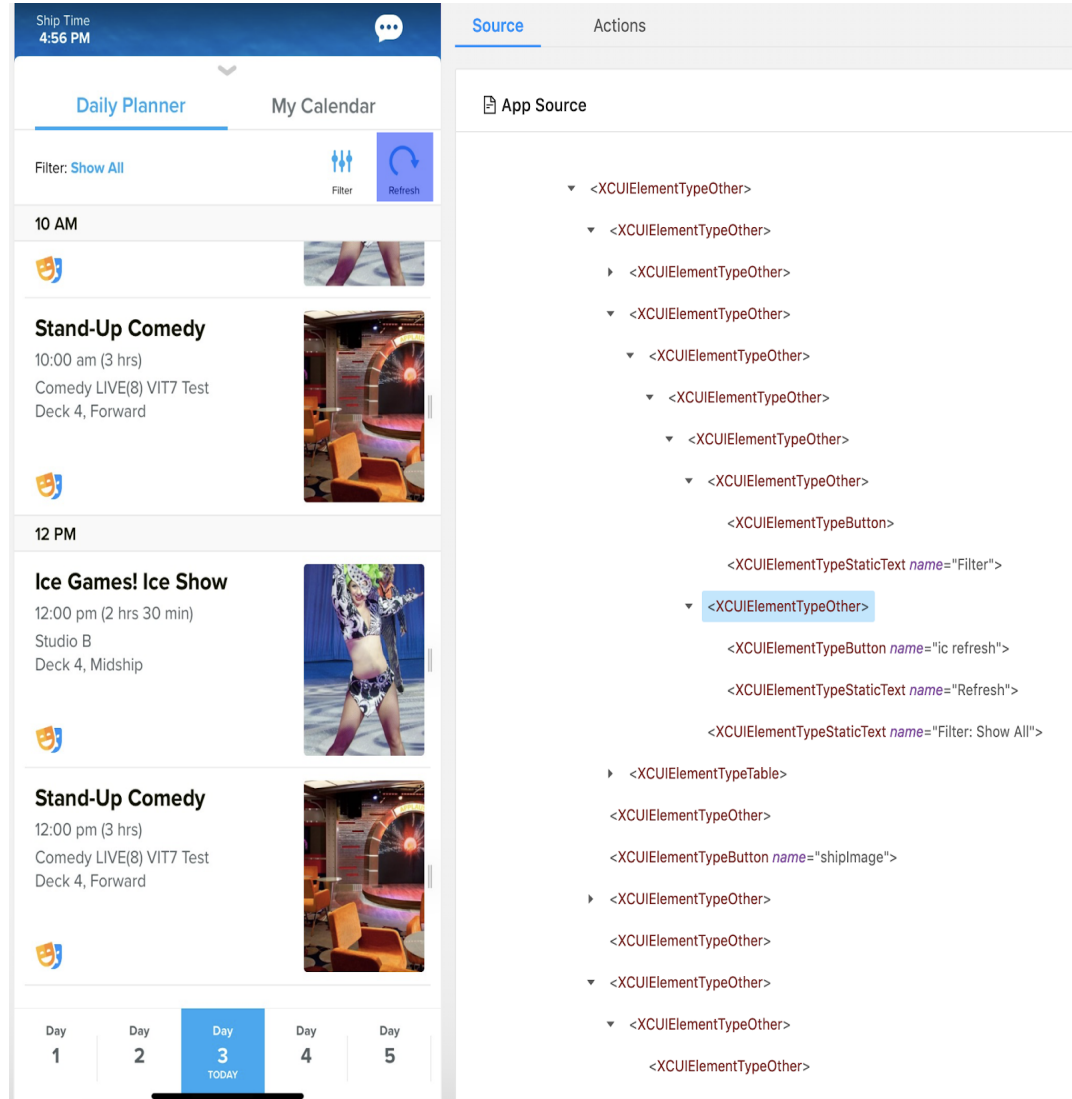
```
@iOSXCUITFindBy(iOSNsPredicate = "type == 'XCUIElementTypeStaticText' AND label CONTAINS 'something'")
private IOSElement someLabel;
```

```
@iOSXCUITFindBy(iOSNsPredicate = "type == 'XCUIElementTypeOther' AND (name CONTAINS 'AM' OR name CONTAINS 'PM')")
private List<IOSElement> textHourPlannerLabel;
```

```
@iOSXCUITFindBy(iOSNsPredicate = "type == 'XCUIElementTypeStaticText' AND label CONTAINS 'TODAY' AND visible == 1")
private IOSElement todayText;
```

After checking this, we are ready to start identifying the elements. Identify and declare on a document the locators for the following elements:

1. Identify the Refresh Text Label



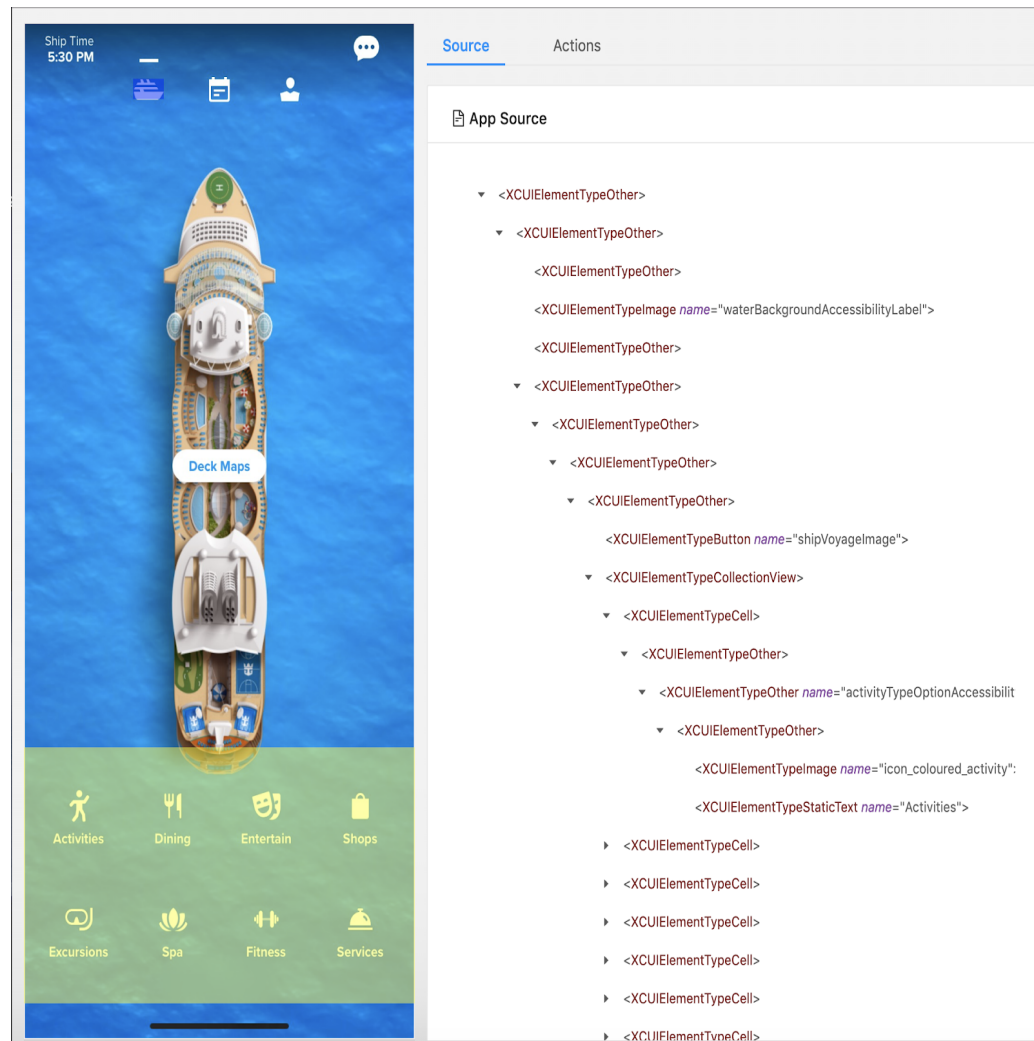
The image displays a mobile application interface on the left and its corresponding source code on the right. The app interface is a 'Daily Planner' with a blue header showing 'Ship Time 4:56 PM' and a chat icon. Below the header, there are tabs for 'Daily Planner' and 'My Calendar'. A filter section shows 'Filter: Show All' and a 'Refresh' button with a circular arrow icon. The main content area lists events: 'Stand-Up Comedy' at 10:00 am (3 hrs) and 'Ice Games! Ice Show' at 12:00 pm (2 hrs 30 min). At the bottom, there is a calendar view for days 1 through 5, with day 3 highlighted as 'TODAY'.

The source code on the right is titled 'App Source' and shows a tree view of UI elements. The elements are categorized by type, with many instances of '<XCUIElementTypeOther>'. The 'Refresh' button is identified as an '<XCUIElementTypeButton>' with the name 'ic refresh'. The 'Filter: Show All' text is identified as an '<XCUIElementTypeStaticText>' with the name 'Filter: Show All'.

Respuesta:

```
@iOSXCUIFindBy(iOSNsPredicate = "type == 'XCUIElementTypeStaticText' AND  
name CONTAINS 'Refresh'")  
private iOSElement refreshButtonText;
```

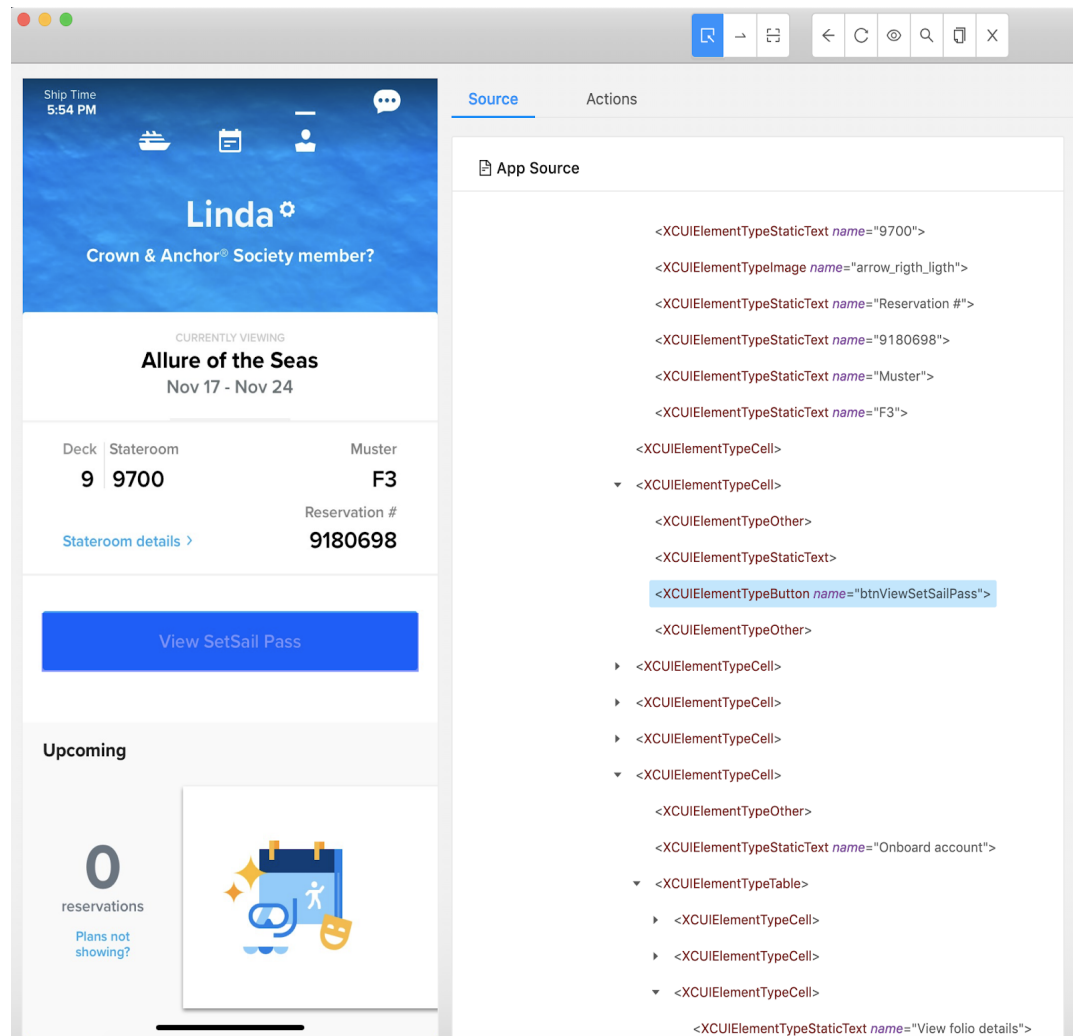
2. Identify the Categories Container



Respuesta

```
@iOSXCUITFindBy(iOSNsPredicate =  
"*/XCUIElementTypeOther/XCUIElementTypeCollectionView")  
private iOSElement categoriesContainer;
```

3. Identify the View SetSail Pass Button



When identifying the locators, try to avoid using xpath, also, consider some elements may be referring to a parent instead of the specific element, so try to get the locators as specific as possible.

Respuesta

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] !æ^ÄUÜÖ|^{ ^} d^ tnviewSetSPL