SWEN90006: Assignment 1

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1 Task 1

1.1 Test template trees

Figure 1 - 4 shows the test template trees for the API addUser, loginUser, updateDetails, and retrieveDetails respectively.

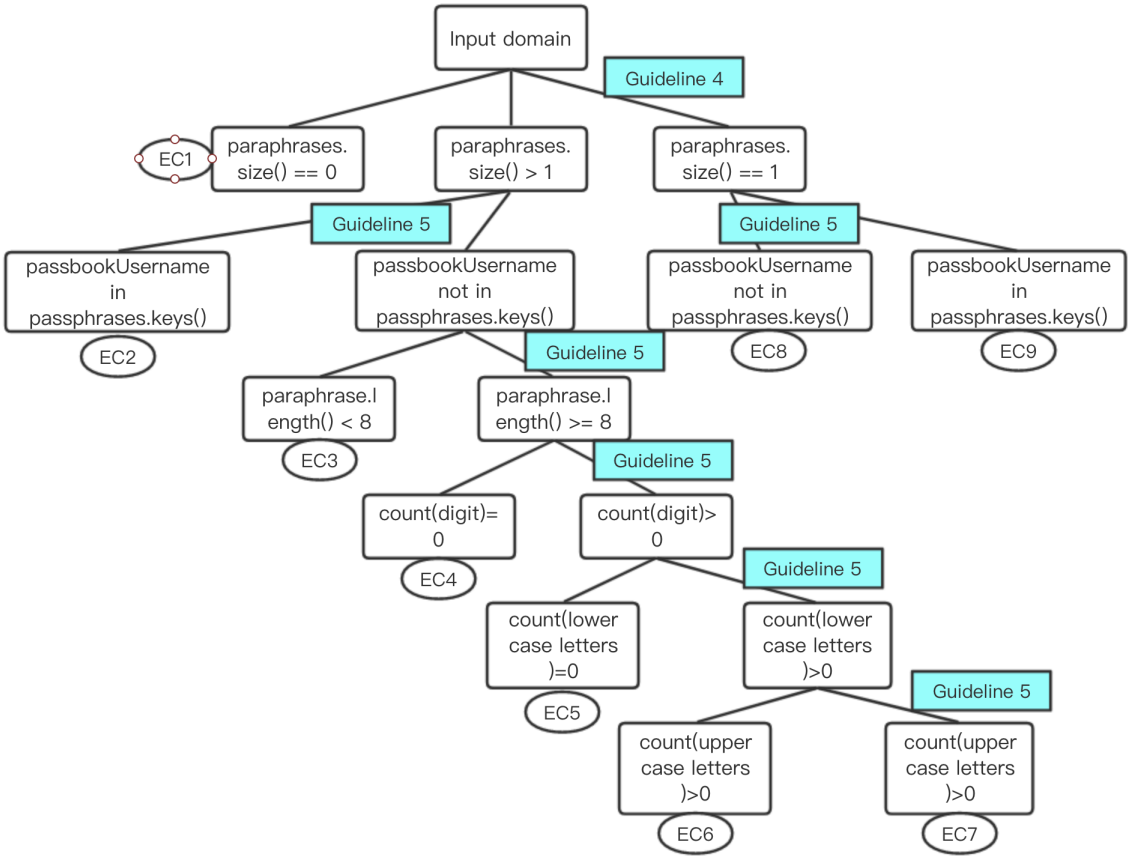

Figure 1: Test template tree for addUser()

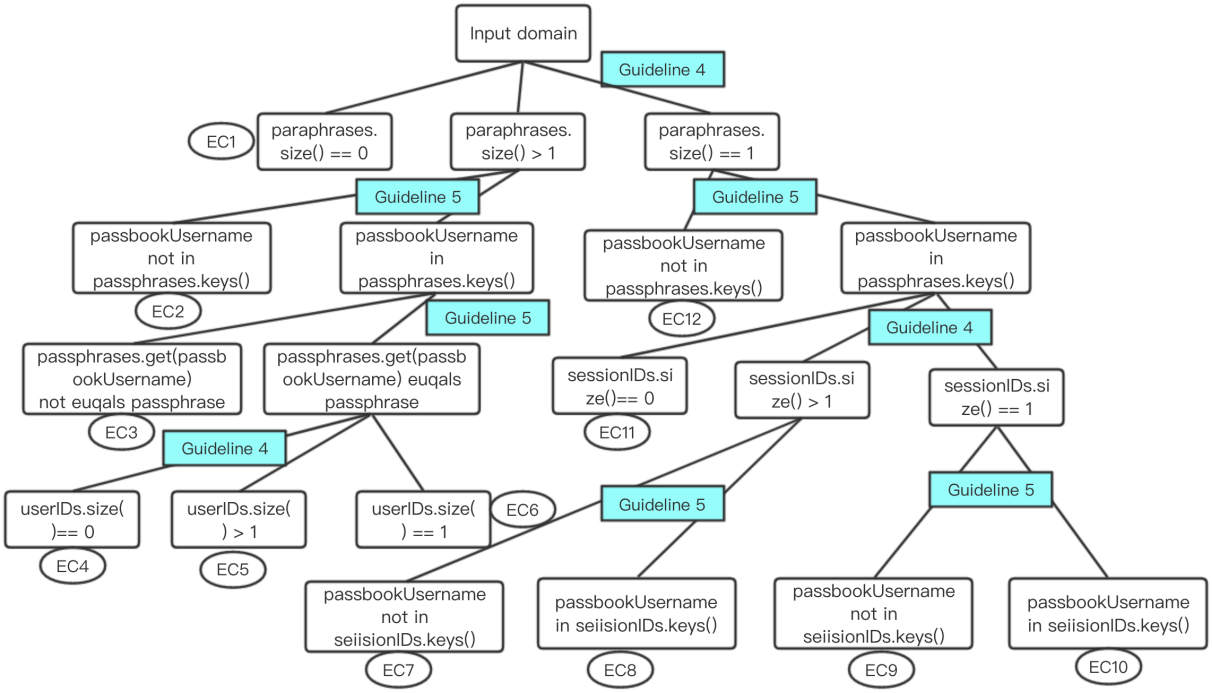

Figure 2: Test template tree for loginUser()

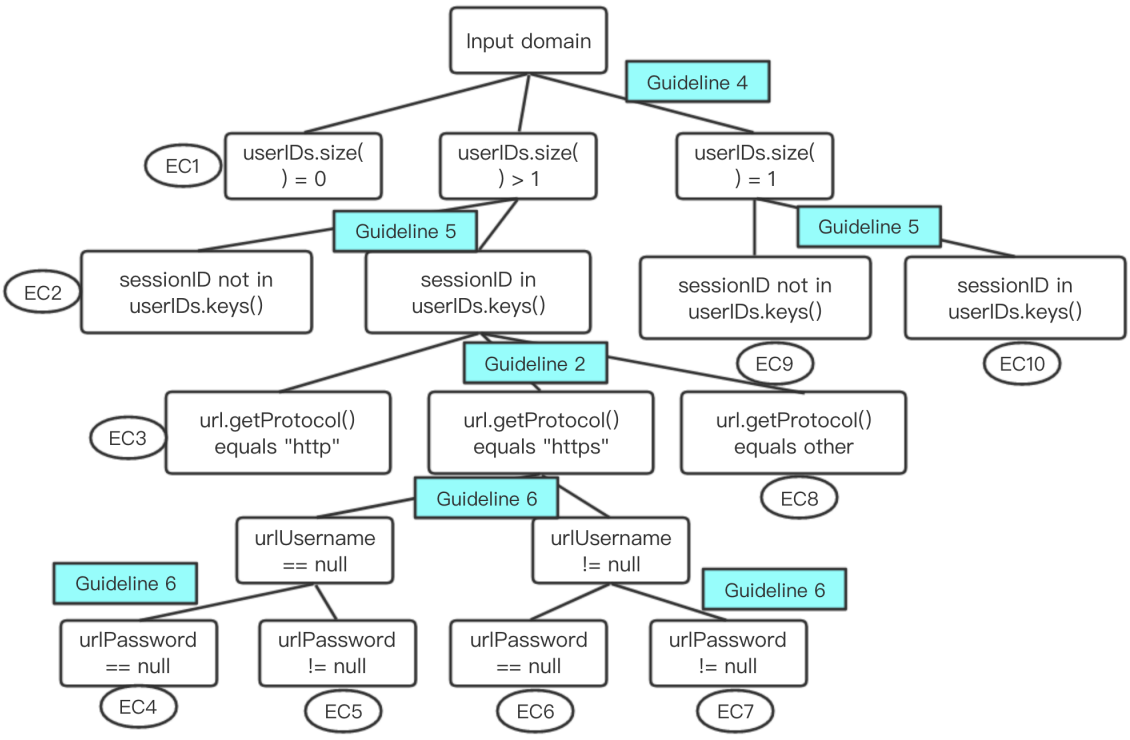

Figure 3: Test template tree for updateDetails()

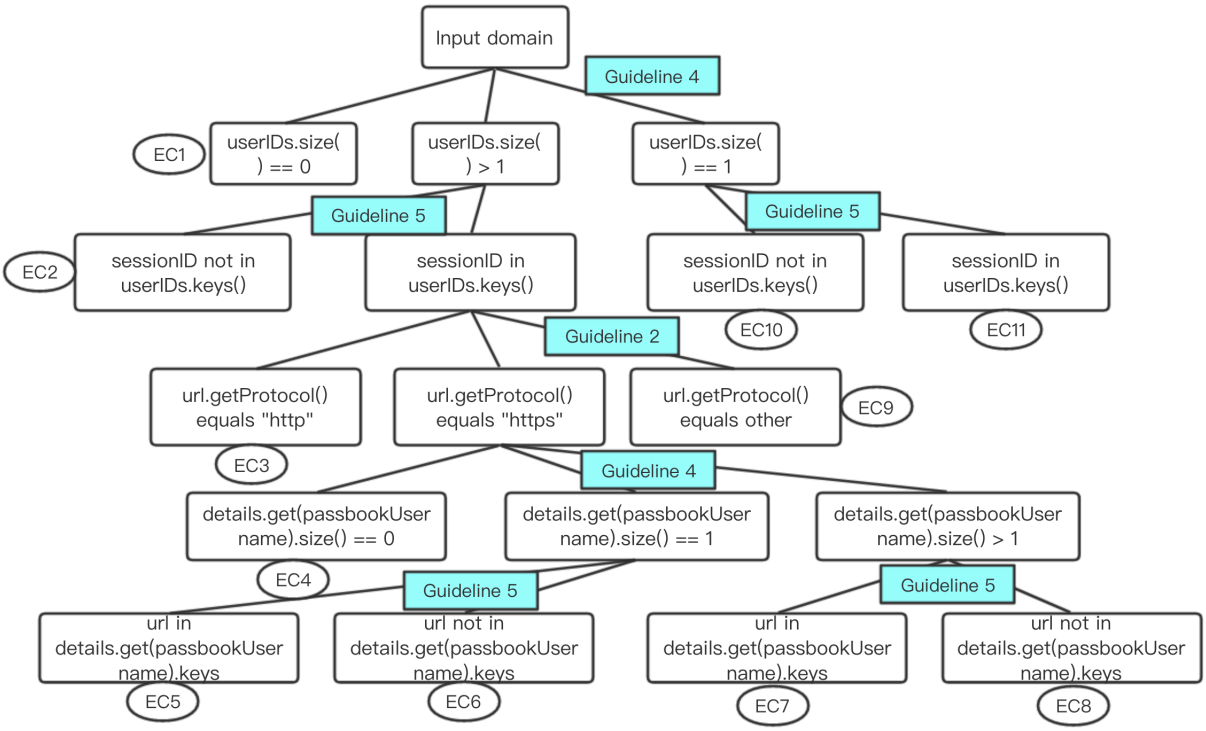

Figure 4: Test template tree for retrieveDetails()

1.2 Do your set of equivalence classes cover the input space?

My set of equivalence classes cover the input space. The reasons are as follows:

1) All leaf nodes are divided strictly and carefully, so that they do not overlap with other leaf.

2) The collection of the set of each sibling node covers all the cases of their parent node.

3) If two variables are independent of each other, then the subtree of one variable can be added to a leaf node of the other variable. In this case, all the nodes add up to cover all situations.

4) As part of your input domain, the instance variables should also be considered. Note that all of these variables are collections, so according to guideline 4, we should follow the zero-one-many rule. But in this particular case, we just care about whether the collection contains some values. So I combined the two cases (number of elements equals 1 and greater than 1) into one (greater than 0), which does not affect the results of the tests.