# User story

## Description

As a user, I want to generate a Testlet for a software of assessments for answered by candidates.

In the assessments industry, items are test questions to be answered by candidates. Items can be pretest or operational. Pretest items don’t count towards a candidate’s score.

Candidates are given a set of items they need to answer. This set is called a Testlet.

A sample Testlet with 5 items (pictured below)–



# Acceptance Criteria

* There is a Testlet with a fixed set of 10 items. 6 of the items are operational and 4 of them are pretest items.
* The requirement is that the \_order\_ of these items should be randomized such that –
  + The first 2 items are always pretest items selected randomly from the 4 pretest items.
  + The next 8 items are mix of pretest and operational items ordered randomly from the remaining 8 items.

# Unit test

1. Validate null parameters
   1. Test when the testletId parameter contains a null value.
   2. Test when the items parameter contains a null value.
2. Validate that the Testlet contains 10 elements
   1. Test behavior when the Testlet does not contain 6 elements of operational type.
   2. Test behavior when the Testlet does not contain 4 elements of pretest type.
3. Validate that the Testlet in the Randomize function is executed correctly
   1. Validate that the first ones are always of the pretest type.
   2. Validate that the remaining Items are ordered randomly.

# Unit test development

1. Validate null parameters
   1. Test when the testletId parameter contains a null value.



* 1. Test when the items parameter contains a null value.



1. Validate that the Testlet contains 10 elements
   1. Test behavior when the Testlet does not contain 6 elements of operational type.



* 1. Test behavior when the Testlet does not contain 4 elements of pretest type.



1. Validate that the Testlet in the Randomize function is executed correctly
   1. Validate that the first ones are always of the pretest type.



* 1. Validate that the remaining Items are ordered randomly.



# Refactoring

# Run all tests again