

Subject web application: randomString

RandomString is a small web application, containing one java servlet. It allows users to enter a list of strings to be randomly chosen with two options: with replacement or without replacement (default).

Specific requirements

Functional requirements

Use Case Name: randomString
Use Case ID: randomString-1
Actors: web user
Brief Description: The system allows users to enter a list of strings and choosing them randomly with two options: with replacement or without replacement (default).
Pre-Conditions: None.
Main Flow of Events: <ol style="list-style-type: none">1. User enters a list of strings to be chosen. Multiple strings are separated by carriage return.2. User selects to randomly choose strings 'without replacement.'3. User presses the 'Submit' button.4. The system removes the randomly chosen string from the original list.5. The system displays the randomly chosen string in the 'String chosen' result area.
Post-Conditions: The system displays the randomly chosen string.
Alternative Flows and Exceptions: <p>Alternative 1, Insert Point Step 1-5 If the user presses the 'Submit' button without entering strings to be chosen, the system displays error message requiring the user to enter strings prior to submit the form.</p> <p>Alternative 2, Insert Point Step 2-4 If the user selects to randomly choose string 'with replacement,' the system does not remove the selected string from the original list.</p> <p>Alternative 3, Insert Point Step 2-5 If the user presses the 'Clear Chosen Strings' button, the system resets the 'String chosen' result area.</p> <p>Alternative 4, Insert Point Step 2-5 If the user presses the 'Restart' button, the system resets the form, i.e., resetting the strings previously entered and the strings previously chosen.</p>
Assumptions: Randomly choosing without replacement is a default option.

Other Requirements

Requirement ID	Requirement
SRS_01	The system shall allow users to enter multiple strings.
SRS_02	The system shall allow users to enter strings regardless languages.