System Requirements Specification Index

For

String Manipulation and Information Operations

Version 1.0

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USE CASE DESCRIPTION

System Requirements Specification

1 Project Abstract

This project will evaluate the understanding of string manipulation and string information methods in Java. You will demonstrate their knowledge by declaring string variables and performing various string manipulation and information operations.

2 Assessment Tasks

1. Declare two string variables that will be used for string operations.

2. Apply various string manipulation methods:
   substring(), concat(), replace(), toUpperCase(), toLowerCase().
   Examples:
   - Extract a substring from a string.
   - Concatenate two strings.
   - Replace a part of a string.
   - Convert a string to uppercase and lowercase.
   - Perform String Information Operations:

3. Use string information methods:
   length(), charAt(), indexOf(), isEmpty(), startsWith(), endsWith().
   Examples:
   - Find the length of a string.
   - Extract a character at a given index.
   - Check if a string is empty, or if it starts or ends with a certain substring.

3 Template Code Structure

3.1 Package: com.yaksha.assignment.StringManipulationInfoAssignment

Resources

Class/Interface	Description	Status
StringManipulationInfoAssignment (class)	• Main class demonstrating string manipulation operations such as: `substring`, `concat`, `replace`, `toUpperCase`, `toLowerCase`. • And string information operations like: `length`, `charAt`, `indexOf`, `isEmpty`, `startsWith`, and `endsWith`.	Need to be implemented.

4 Execution Steps to Follow

1. **All actions like build, compile, running application, running test cases will be through Command Terminal.**
2. **To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) Terminal New Terminal.**
3. **This editor Auto Saves the code.**
4. **If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.**
5. **These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.**

6. **To run your project use command:**
   mvn compile exec:java
   -Dexec.mainClass="com.yaksha.assignment.StringManipulationInfoAssignment"
7. **To test your project test cases, use the command**
   mvn test

8. **You need to use CTRL+Shift+B - command compulsorily on code IDE, before final submission as well. This will push or save the updated contents in the internal git/repository, and will be used to evaluate the code quality.**