

**Student Name:**

### Laboratory Goals / Objectives

In this lab the student will learn about some of the MIDP High Level User Interface Components.

### Introduction

Create a MIDlet that has the following elements:

**Task 0** Create a Form for the input of a username and password.

The Password Form should have:

A TextField (for the username)

A TextField (for the password)

There should also be two commands associated with the Password Form, Exit and Login.

If the username and password are invalid an Alert of type `AlertType.ERROR` should be presented.

If the username and password are correct an Alert of type `AlertType.INFO` should be presented, and the next Form to be displayed is the `ReverseStringForm`.

**Task 1** Create a Form for reversing a String containing one TextField and 3 StringItems.

A TextField (to allow the user enter a String)

A StringItem (to display the number of characters of the input String)

A StringItem (to display the reversed representation of the input String)

A StringItem (to output a message to the user if the input String is a palindrome or not)

Attached to the form there should be two Command objects, one to process the input String the other to exit the application.

The application should reverse the input String, display the length of the string, and print out a message to indicate if the string is a palindrome or not.

**Questions**

The following questions are to be filled in individually by each student.

1. Provide the code to create the UI elements?

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2. Provide the code to add all the elements to both forms including any Listeners?

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3. Provide the code for the method `public String reverseString(String stringToReverse)`?

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4. Provide the code necessary for the `CommandListener`?

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5. What Constraints may be passed to the `TextField` Constructor, and what are the numeric values of those constraints?

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