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\* @ClassName : EmailValidation.java

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package com.main.emailvalidation;

import java.util.ArrayList;

import java.util.Scanner;

import java.util.regex.Matcher;

import java.util.regex.Pattern;

public class EmailValidation {

//Regular Expression

public static final String REGEX = "^[A-Za-z0-9.]+@[A-Za-z0-9.]+";

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*Welcome to Email Validation\*\*\*\*\*\*\*\*\*\*\*\*" + "\n");

System.out.println("Create Employee's email Id data");

String[] str= getEmpEmailIDArray(sc);

System.out.println("Checking email IDs are valid or not.........");

for (String emailId : str) {

boolean flag = isValidEmailId(emailId);

System.out.println((emailId + " is " + (flag ? " valid":" invalid")));

}

System.out.println("If you Want to search email ID Type 'Y' Or Type 'Exit' to exit");

String ch = sc.next();

if("Y".equalsIgnoreCase(ch)) {

System.out.println("Please Enter Email-ID You want to search in Employee Email-ID Data");

String searchEmailId = sc.next();

searchEmailId(str, searchEmailId);

} else if("Exit".equalsIgnoreCase(ch)) {

System.out.println("Application Logout! ");

return;

} else {

System.out.println("Invalid Type Option. Application Logout! ");

}

sc.close();

}

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\* Method to return user entered email id.

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\* @param sc scanner object to take input from console

\* @return strArray String of array

\*/

private static String[] getEmpEmailIDArray(Scanner sc) {

ArrayList<String> al = new ArrayList<String>();

System.out.println("Please enter employee Email-ID's to store and validate");

System.out.println("Type 'Q' when you done");

while(true) {

String inputValue = sc.next();

if("Q".equalsIgnoreCase(inputValue))

break;

al.add(inputValue);

}

String[] strArray = new String[al.size()];

strArray = al.toArray(strArray);

return strArray;

}

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\* Method to match email Id with regular expression

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\* @param emailID entered email Id

\* @return boolean true/false based on Matcher.matches() method

\*/

private static boolean isValidEmailId(String emailID) {

Pattern p = Pattern.compile(REGEX);

Matcher m = p.matcher(emailID);

return m.matches();

}

/\*\*

\* Method to search user entered email id in String array

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\* @param strArray collection of email id

\* @param inputEmailId user entered email Id

\*/

private static void searchEmailId(String[] strArray, String inputEmailId) {

boolean recordExistFlag = false;

System.out.println("Searching email ID "+inputEmailId+" in records.........");

for (int i = 0; i < strArray.length; i++) {

if(inputEmailId.equalsIgnoreCase(strArray[i])) {

System.out.println("Entered Employee Email Id found in records");

recordExistFlag =true;

}

}

if(!recordExistFlag) {

System.out.println("No Records Found");

}

}

}