package com.gl.email.service;

import com.gl.email.model.Employee;

public interface CredentialService {

public String generateEmailAddress(String firstName, String lastName, String department);

public String generatePassword();

public void showCredentials(Employee employee);

}

package com.gl.email.service;

import java.util.Random;

import com.gl.email.model.Employee;

public class CredentialServiceImpl implements CredentialService {

String Capital\_Chars = "ABCDEFGHIJKLMNOPQRSTUVWXYZ";

String Lower\_Chars = "abcdefghijklmnopqrstuvwxyz";

String numbers = "0123456789";

String symbols = "!@#$%^&\*\_=+-/.?<>)";

@Override

public String generateEmailAddress(String firstName, String lastName, String department) {

// TODO Auto-generated method stub

return firstName.toLowerCase() + lastName.toLowerCase() + "@" + department + "abc.com";

}

@Override

public String generatePassword() {

// TODO Auto-generated method stub

String values = Capital\_Chars + Lower\_Chars + numbers + symbols;

Random random = new Random();

char[] password = new char[8]; // makes an empty char array

for (int i = 0; i < 8; i++) {

// use of charAt()method: to get character values

// use of nextint()as it is scanning the value as int

password[i] = values.charAt(random.nextInt(values.length()));

}

return String.valueOf(password);

}

@Override

public void showCredentials(Employee employee) {

// TODO Auto-generated method stub

System.out.println("Dear " + employee.getFirstName() + "your generated credentials are as follows");

System.out.println("Email\t\t" + employee.getEmail());

System.out.println("Password\t" + employee.getPassword());

}

}

package com.gl.email.model;

public class Employee {

private String firstName;

private String lastName;

private String email;

private String password;

public Employee() {

super();

// TODO Auto-generated constructor stub

}

public Employee(String firstName, String lastName) {

super();

this.firstName = firstName;

this.lastName = lastName;

}

public Employee(String firstName, String lastName, String email, String password) {

super();

this.firstName = firstName;

this.lastName = lastName;

this.email = email;

this.password = password;

}

public String getFirstName() {

return firstName;

}

public void setFirstName(String firstName) {

this.firstName = firstName;

}

public String getLastName() {

return lastName;

}

public void setLastName(String lastName) {

this.lastName = lastName;

}

public String getEmail() {

return email;

}

public void setEmail(String email) {

this.email = email;

}

public String getPassword() {

return password;

}

public void setPassword(String password) {

this.password = password;

}

}

package com.gl.email.main;

import com.gl.email.service.CredentialServiceImpl;

import java.util.Scanner;

import com.gl.email.model.Employee;

import com.gl.email.service.CredentialService;

public class EmailApp {

public static void main(String[] args) {

// TODO Auto-generated method stub

CredentialService service = new CredentialServiceImpl();

Scanner in = new Scanner(System.in);

System.out.println("Enter First Name");

String firstName = in.next();

System.out.println("Enter Last Name");

String lastName = in.next();

Employee employee = new Employee(firstName, lastName);

System.out.println("Please Enter the department from the following ");

System.out.println("1. Technical");

System.out.println("2. Admin");

System.out.println("3. Human Resource");

System.out.println("4. Legal");

int option = in.nextInt();

String department = ""; // for storing the department prefixes

switch (option) {

case 1:

department = "tech";

break;

case 2:

department = "ad";

break;

case 3:

department = "hr";

break;

case 4:

department = "lg";

break;

default:

System.out.println("please enter the Correct Choice....:");

}

String email = service.generateEmailAddress(firstName, lastName, department);

employee.setEmail(email);

String password = service.generatePassword();

employee.setPassword(password);

service.showCredentials(employee);

}

}