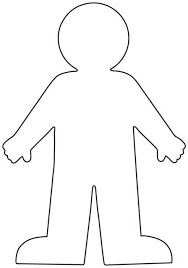
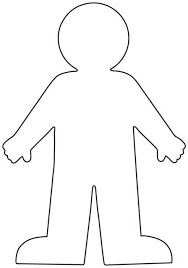
Online Quiz

login



Sign-up

Prepare Quiz

Prepare

Answer Set

Take Quiz

Login

V

iew

Score

Admin

User

================================AdminManager===============================

package com.student.exam;

import java.util.\*;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.ObjectInputStream;

import java.io.ObjectOutputStream;

public class AdminManager {

public static void operations() throws FileNotFoundException, ClassNotFoundException, IOException {

String qno;

String prompt;

String answer;

Scanner scanner = new Scanner(System.in);

Scanner scanner1 = new Scanner(System.in);

ArrayList<Question> list = new ArrayList<Question>();

File file = new File("QuestionAnswer.txt");// initialising file object and passing filename as argument

ObjectOutputStream out = null;// initially writing the object as null

ObjectInputStream in = null;

ListIterator<Question> iterator = null;

File file1 = new File("User.txt");

User user = new User();

ArrayList<User> list1 = new ArrayList<User>();

ObjectOutputStream out1 = null;

ObjectInputStream in1 = null;

ListIterator<User> iterator1 = null;

char ch = 0;

do {

System.out.println("==================");

System.out.println("== HELLO ADMIN ==");

System.out.println("==================");

System.out.println("1. Add Questions");

System.out.println("2. View Questions ");

System.out.println("3. Delete Question");

System.out.println("4. View User Information");

System.out.println("==================");

System.out.println();

System.out.println("Enter your choice ");

int choice = scanner.nextInt();

switch (choice) {

case 1:

System.out.println("Welcome Admin!");

System.out.println("Please Enter the no of Questions that you want to add");

int no\_of\_products = scanner.nextInt();

for (int i = 0; i < no\_of\_products; i++) {

System.out.println("Enter the Question Number");

qno = scanner1.nextLine();

System.out.println("Enter the Question");

prompt = scanner1.nextLine();

System.out.println("Enter Answer");

answer = scanner1.nextLine();

// adding object to list

list.add(new Question(qno,prompt,answer));

}

// objectoutputstream

out = new ObjectOutputStream(new FileOutputStream(file));

out.writeObject(list);// writes the object available in list into the file.

out.close();

break;

case 2:

System.out.println("--- view all Questions--");

in = new ObjectInputStream(new FileInputStream(file));

list = (ArrayList<Question>) in.readObject();

in.close();

iterator = list.listIterator();

while (iterator.hasNext()) {

System.out.println(iterator.next());

}

break;

case 3:

System.out.println("-------DELETION--------");

boolean found1 = false; System.out.println("Enter the Question Number to be removed");

String Question\_delete = scanner1.nextLine();

in = new ObjectInputStream(new FileInputStream(file));

list = (ArrayList<Question>) in.readObject();

in.close();

iterator = list.listIterator();

while (iterator.hasNext())

{

Question pl = (Question) iterator.next();

if(pl.qno.equals(Question\_delete))

{

iterator.remove(); found1 = true;

}

}

if (found1)

{

out = new ObjectOutputStream(new FileOutputStream(file));

out.writeObject(list); out.close();

System.out.println(Question\_delete +" is removed sucessfully");

} else

{

System.out.println(Question\_delete +" is not in a list");

}

break;

case 4:

System.out.println("-------view all users-------");

in1 = new ObjectInputStream(new FileInputStream(file1));

list1 = (ArrayList<User>) in1.readObject();

in1.close();

iterator1 = list1.listIterator();

while (iterator1.hasNext()) {

System.out.println(iterator1.next());

}

break;

}

System.out.println("Do u want to continue press y");

ch = scanner.next().charAt(0);

} while (ch == 'y');

}

}

================================Assessment==================================

package com.student.exam;

;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.ObjectInputStream;

import java.io.ObjectOutputStream;

import java.util.ArrayList;

import java.util.List;

import java.util.ListIterator;

import java.util.Scanner;

public class Assessment {

public static void main(String[] args) throws FileNotFoundException, IOException, ClassNotFoundException {

// TODO Auto-generated method stub

char option;

Assessment loginmain = new Assessment();

User user=new User();

File file = new File("C:\\Users\\HP\\eclipse-workspace\\AllNewProj\\User.txt");

List<User> list = new ArrayList<User>();

List<User> updatedlist = new ArrayList<User>();

ObjectOutputStream out = null;

ObjectInputStream in = null;

ListIterator<User>iterator = null;

do {

Scanner scanner = new Scanner(System.in);

System.out.println("=====WELCOME=====");

System.out.println("---1.SIGNUP----");

System.out.println("---2.LOGIN----");

int choice = scanner.nextInt();

char opt;

switch (choice) {

case 1:

do {

System.out.println("----------signup------------");

System.out.println("Enter the Details");

System.out.println("Enter the role");

String role = scanner.next();

System.out.println("Enter the Mobile number");

String mobilenumber = scanner.next();

System.out.println("Enter the username");

String username = scanner.next();

if (UsernameValidator.userNameValidation(username)) {

System.out.println("valid username");

System.out.println("Enter the Password");

String password = scanner.next();

if (PasswordValidator.passWordValidation(password)) {

System.out.println("valid password");

System.out.println("Enter the confirmpassword");

String confirmpassword = scanner.next();

if (password.equals(confirmpassword)) {

list.add(new User(username, password, confirmpassword, role, mobilenumber,0));

out = new ObjectOutputStream(new FileOutputStream(file));

out.writeObject(list);

out.close();

System.out.println("Access Granted!you can login and go ahead");

} else

System.out.println("password doesnot match");

} else

System.out.println("password should be strong");

} else

System.out.println("enter the username again");

break;

//System.out.println("Do you want to signup again::");

//opt= scanner.next().charAt(0);

}while(opt == 'y');

break;

case 2:

in = new ObjectInputStream(new FileInputStream(file));

list = (ArrayList<User>)in.readObject();

System.out.println(list.size());

System.out.println("------Login---------");

System.out.println("enter the username");

String username1 = scanner.next();

System.out.println("enter the password");

String Password1 = scanner.next();

in.close();

iterator = list.listIterator();

User tempUser = new User();

while(iterator.hasNext())

{

user=(User)iterator.next();

if (username1.equals(user.username) && Password1.equals(user.password))

{

if(user.role.equalsIgnoreCase("admin"))

{

System.out.println("Admin Login Success");

new AdminManager().operations();

}

else if(user.role.equalsIgnoreCase("user"))

{

System.out.println("User Login Success");

Scanner scanner1 = new Scanner(System.in);

System.out.println("=====WELCOME=====");

System.out.println("---1.Attempt Quiz----");

System.out.println("---2.Show Result----");

int choice1 = scanner1.nextInt();

switch (choice1) {

case 1:

int score = new UserManager().attemptQuiz();

user.score = score;

tempUser = user;

iterator.remove();

break;

case 2:

new UserManager().showResult(user);

break;

}

list.add(tempUser);

out = new ObjectOutputStream(new FileOutputStream(file));

out.writeObject(list);

out.close();

}

break;

}

}

}

System.out.println("Do you want to continue press 'y',else press 'N'");

option = scanner.next().charAt(0);// here charAt(0) returns the character at 0th index to variable "option"

} while (option == 'y');

}

}

==============================PasswordValidator=============================

package com.student.exam;

import java.util.regex.Matcher;

import java.util.regex.Pattern;

public class PasswordValidator {

/\*Password must contain at least one digit [0-9].

Password must contain at least one lowercase Latin character [a-z].

Password must contain at least one uppercase Latin character [A-Z].

Password must contain at least one special character like ! @ # & ( ).

Password must contain a length of at least 8 characters and a maximum of 20 characters.\*/

private static final String PASSWORD\_PATTERN =

"^(?=.\*[0-9])(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[!@#&()–[{}]:;',?/\*~$^+=<>]).{8,20}$";

private static final Pattern pattern = Pattern.compile(PASSWORD\_PATTERN);

public static boolean passWordValidation(final String password) {

Matcher matcher = pattern.matcher(password);

return matcher.matches();

}

}

=================================Question=================================

package com.student.exam;

import java.io.Serializable;

public class Question implements Serializable {

String qno;

String prompt;

String answer;

public Question(String qno,String prompt,String answer) {

this.qno = qno;

this.prompt = prompt;

this.answer = answer;

}

@Override

public String toString() {

return "Question [qno=" + qno + ", prompt=" + prompt + ", answer=" + answer + "]";

}

}

==============================User==============================

package com.student.exam;

import java.io.Serializable;

public class User implements Serializable{

String username;

String password;

String confirmpassword;

String role;

String mobilenumber;

double score;

public void User() {

}

public User(String username, String password, String confirmpassword, String role, String mobilenumber, double score) {

super();

this.username = username;

this.password = password;

this.confirmpassword = confirmpassword;

this.role = role;

this.mobilenumber = mobilenumber;

this.score = score;

}

public User() {

// TODO Auto-generated constructor stub

}

@Override

public String toString() {

return "User [username=" + username + ", password=" + password + ", confirmpassword=" + confirmpassword + ", role="

+ role + ", mobilenumber=" + mobilenumber + ", score=" + score + "]";

}

}

================================UserManager=====================

package com.student.exam;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.ObjectInputStream;

import java.io.ObjectOutputStream;

import java.util.ArrayList;

import java.util.List;

import java.util.ListIterator;

import java.util.Scanner;

public class UserManager {

Scanner scanner = new Scanner(System.in);

File file = new File("QuestionAnswer.txt");

ArrayList<Question> list = new ArrayList<Question>();

ArrayList<User> listUser = new ArrayList<User>();

ListIterator<Question> iterator = null;

int score = 0;

public int attemptQuiz() throws FileNotFoundException, IOException, ClassNotFoundException {

score = 0;

Question q;

ObjectInputStream in = null;

in = new ObjectInputStream(new FileInputStream(file));

list = (ArrayList<Question>) in.readObject();

in.close();

iterator = list.listIterator();

while (iterator.hasNext()) {

q = (Question) iterator.next();

System.out.println(q.prompt);

System.out.println("Enter the Answer::");

String ans = scanner.next();

if (q.answer.equalsIgnoreCase(ans)) {

score++;

}

}

return score \* 100 / list.size();

}

public void showResult(User user) {

System.out.println("Your score is ::" + user.score);

}

}

=======================UserNameValidator========================

package com.student.exam;

import java.util.regex.Matcher;

import java.util.regex.Pattern;

public class UsernameValidator {

public static boolean userNameValidation(String username)

{

String regex="^[a-zA-Z][a-zA-z0-9\_]{6,19}$";

Pattern p=Pattern.compile(regex);

if(username==null)

System.out.println("enter username!it is empty");

Matcher m=p.matcher(username);

return m.matches();

}

}