TRIVIA GAME(ADVANCED OBJECT ORIENTED PROGRAM)

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START

**public class MainQuiz {**

**public static void main(String[] args) throws IOException {**

**Scanner sobj= new Scanner(System.in);**

**String userName = null;**

**String password = null;**

**int nbQues = 0;**

**int crtAns = 0;**

**int Ans;**

**int choice;**

**String Path = "D:/filename.txt";**

**User user = new User();**

**do {**

**WRITE("Enter 1 to Register ");**

**WRITE("Enter 2 to Login");**

**WRITE("Enter 0 to Exit");**

**WRITE("Enter the Choice :");**

**choice = READ();**

**switch(choice)**

**{**

**case 1:**

**{**

**WRITE(" -----Register------ ");**

**WRITE("Enter the User Name: ");**

**userName = READ();**

**WRITE("Enter the Password : ");**

**password = READ();**

**if(user.Register(userName, password, Path))**

**{**

**WRITE(" Register Sucess ");**

**break;**

**}**

**else**

**{**

**WRITE(" Register UnSucess ");**

**}**

**break;**

**}**

**case 2:**

**{**

**WRITE(" -----Login------ ");**

**WRITE("Enter the User Name: ");**

**userName = READ();**

**WRITE("Enter the Password : ");**

**password = READ();**

**if(user.checklogin(userName, password, Path))**

**{**

**WRITE(" Login Sucess ");**

**choice =0;**

**break;**

**}**

**else**

**{**

**WRITE(" Login UnSucess ");**

**}**

**break;**

**}**

**case 0:**

**{**

**break;**

**}**

**}**

**}while(!(choice== 0));**

**// WRITE(userName);**

**// WRITE(password);**

**if(Integer.parseInt(userName) == Integer.parseInt("123") &&**

**Integer.parseInt(password) == Integer.parseInt("123"))**

**{**

**int questionChoice = 0;**

**Topic ques = new Topic();**

**Questions[] ques1 = new Questions[8];**

**String path = "";**

**do {**

**questionChoice = topicMenu();**

**switch(questionChoice)**

**{**

**case 1:**

**{**

**ques1 = ques.getQuestions("Art.txt");**

**path= "Art.txt";**

**questionChoice = 0;**

**break;**

**}**

**case 2:**

**{**

**ques1 = ques.getQuestions("Food.txt");**

**path = "Food.txt";**

**questionChoice = 0;**

**break;**

**}**

**case 3:**

**{**

**ques1 = ques.getQuestions("History.txt");**

**path = "History.txt";**

**questionChoice = 0;**

**break;**

**}**

**case 4:**

**{**

**ques1 = ques.getQuestions("Java.txt");**

**path = "Java.txt";**

**questionChoice = 0;**

**break;**

**}**

**case 0:**

**{**

**break;**

**}**

**}**

**}while(!(questionChoice== 0));**

**int adminChoice;**

**do {**

**WRITE("Enter one option to: ");**

**WRITE("1.Add new question and answer for the (selected Trivia category) ");**

**WRITE("2.Modify question and/or answer for the (selected Trivia category)");**

**WRITE("3.Delete question and answer for the (selected Trivia category)");**

**WRITE("0.Exit this section with confirmation");**

**WRITE("Enter your choice:");**

**adminChoice = READ();**

**switch(adminChoice)**

**{**

**case 1:**

**{**

**ques.AddQuestion(path);**

**break;**

**}**

**case 2:**

**{**

**ques.modifyQuestion(path);**

**break;**

**}**

**case 3:**

**{**

**ques.deleteQuestion(path);**

**break;**

**}**

**case 0:**

**{**

**break;**

**}**

**}**

**}while(!(adminChoice == 0));**

**}**

**else**

**{**

**int questionChoice = 0;**

**do {**

**questionChoice = topicMenu();**

**Topic ques = new Topic();**

**Questions[] ques1 = new Questions[8];**

**switch(questionChoice)**

**{**

**case 1:**

**{**

**ques1 = ques.getQuestions("Art.txt");**

**crtAns = displayQues(ques1);**

**break;**

**}**

**case 2:**

**{**

**ques1 = ques.getQuestions("Food.txt");**

**crtAns = displayQues(ques1);**

**break;**

**}**

**case 3:**

**{**

**ques1 = ques.getQuestions("History.txt");**

**crtAns = displayQues(ques1);**

**break;**

**}**

**case 4:**

**{**

**ques1 = ques.getQuestions("Java.txt");**

**crtAns = displayQues(ques1);**

**break;**

**}**

**}**

**displayResult(crtAns);**

**}while(!(questionChoice== 0));**

**}**

**}**

**public static int displayQues(Questions ques[])**

**{**

**int Ans,crtAns = 0,quesAns = 0;**

**for(int i=0;i<ques.length;i++)**

**{**

**WRITE("Q"+(i+1)+" "+ques[i].getQuestion());**

**WRITE("1 "+ques[i].getAns1());**

**WRITE("2 "+ques[i].getAns2());**

**WRITE("3 "+ques[i].getAns3());**

**WRITE("4 "+ques[i].getAns4());**

**// WRITE(ques1[i].getAns());**

**WRITE("Answer : ");**

**Scanner sobj = new Scanner(System.in);**

**Ans = READ();**

**if(Ans == Integer.parseInt(ques[i].getAns()))**

**{**

**crtAns += 1;**

**}**

**}**

**return crtAns;**

**}**

**public static void displayResult(int crtAns)**

**{**

**WRITE("Your Result is :" +crtAns);**

**}**

**public static int topicMenu()**

**{**

**int choice=0;**

**WRITE("The user menu could be as following:\n To start Trivia app. - enter one option (or special code to manage it):\n\t\t1.Art\n\t\t2.Food\n\t\t3.History\n\t\t4.Java\n\t\t0.Exit the application with confirmation \r\n" +**

**"Enter The Choice:");**

**Scanner sobj= new Scanner(System.in);**

**choice = READ();**

**return choice;**

**}**

**}**

END

**The methods** (classes) that is used in the project.

|  |  |
| --- | --- |
| **Method/Class Name** | **Description** |
| 1. **class** Question() | It has properties and getter and setter methods |
| 1. **class Topic** | It has properties methods to get data from text file and set data to text file |
| 1. void addQuestion(path,Question[]) | Which adds question to text file |
| 1. **Question[] getQuestions(path)** | Which gets Questions From Text Files |
| 1. **Void setQuestions(path,Questions[])** | Which sets Questions to text files |
| 1. **modifyQuestions(path,Questions[])** | Which can modify Questions in text file |
| 1. **void deleteQuestion(path,Question[])** | Which can delete the questions in text file |
| 1. **class User** | Which has the Properties and methods and getter and setters |
| 1. **Boolean Register(username,password,path)** | Which enters the username and password to text file |
| 1. **Boolean CheckLogin(username,password,path)** | Which checks username and password in text file |
| 1. Boolean createFile(path) | Which creates the text file |
| 1. **Class QuizMain()** | Which has all the options to access athe application |
| 1. **Void DisplayQuestion(Question[])** | Displays the questions from array of objects |
| 1. **Void DisplayResults(int crtAns)** | Display the Result |
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