

OBJECT ORIENTED PROGRAMMING

PROJECT REPORT

STUDENT PERFORMANCE TRACKER

BATCH - 9

19z315-Gowtham S

19z335-Niranjan S

19z347-Shashaank R

19z356-T Naveen Kartik

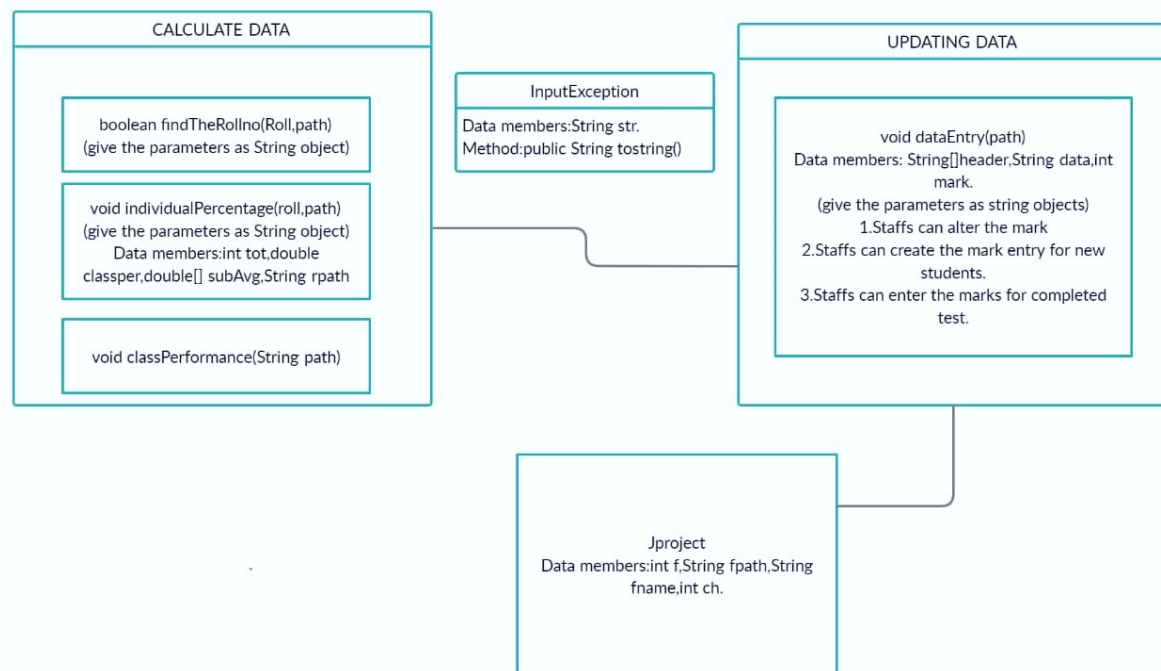
19z359-Vasanthan M

19z361-Vikram Krishna A

PROBLEM STATEMENT:

STUDENT PERFORMANCE TRACKER: This project is coded using the JAVA language and its Object Oriented features and other features like swing. The main aim of the project is to create a code that helps a Staff to update or view a student's marks and helps a Student to view his performance in each subject and also a separate code that helps the Tutor to maintain and manage their class's performance and individual performance. This project is divided into two codes one for the Tutor (only backend) and one for the Staffs and Student (with front end).

CLASS DIAGRAM:



CHALLENGES FACED:

Understanding the concept of handling csv files completely was challenging , Using Swing GUI for coding the frontend took longer, Integrating the front end and backend and Creating a frontend for the code used by tutor due to too much input choices and operations.

CONTRIBUTION OF TEAM MEMBERS:

A Vikram Krishna:

Method : **findTheRollno**(String roll, String path) – used to check whether the entered roll number is present in the file or not ,Creating CSV files and Report (Plagiarism report)

Niranjan S:

Method: **individualPercentage**(String roll,String path) – used to calculate the percentage of all subjects combined for the given roll no and display the marks obtained in the respective CA and Creating CSV files

T Naveen Kartik:

Method: **classPerformance** (String path) – used to find the individual percentage of all the students in a class and write it in a file (CA1Report/CA2Report) along with the contents of the given the existing file (CA1/CA2) and also calculates the class average percentage and subject average of each subjects and writes it in the report file ,Creating CSV files ,Report (Problem statement, Challenges Faced and Contribution by team members) and Update operation (30%) in staff login

Shashaank R:

Class **InputException** – used to handle user defined exception, Method: Void **dataEntry** (String path) – used to enter a new student record into an existing file(CA1/CA2) or create a new file and write new student records into the file .Update operation (70%) in staff login and Creating text files (usernames and passwords used for login)

Gowtham S:

Method: **Driver Code** – used to get inputs from the user like choice of file and choices for operations to be performed on the chosen file and calling the function for performing, Creating CSV files and Report (Class Diagram)

Vasanthan M:

Front end code for student and staff login, **Back end code** for view individual performance in student login, Creating CSV files and Report(output Snapshots)

ANNEXURE I : CODE

<https://github.com/shashaank13/students-performance-tracker>

ANNEXURE II : Snapshots of output

Tutor Code:

```
"C:\Program Files\Java\jdk-14.0.2\bin\java.exe" "-javaagent:D:\IntelliJ IDEA Community Edition 2020.2.1\li
-----STUDENT PERFORMANCE TRACKER-----
MARK LIST
1.CA1
2.CA2
3.Create a new file
Enter your choice-->
1
-----
ENTER THE CHOICE
1.View Individual Performance
2.View Class Performance And Get Report
3.Add New Record
4.Exit
-->
1
PLEASE ENTER YOUR ROLL NUMBER:
19z356

INDIVIDUAL PERFORMANCE
Name :NAVEEN KARTIK T
OOPS:26 DATA STRUCTURES:30 COMPUTER ARCHITECTURE:28 LINEAR ALGEBRA:29 DISCRETE STRUCTURES:20 ECONOMICS:24
PERCENTAGE :87.22
Enter any value from 1- 10 to proceed
|
```

ENTER THE CHOICE

- 1.View Individual Performance
- 2.View Class Performance And Get Report
- 3.Add New Record
- 4.Exit

-->

2

ROLL.NO	OOPS	DATA STRUCTURES	COMPUTER ARCHITECTURE	LINEAR ALGEBRA	DISCRETE STRUCTURES	ECONOMICS	PERCENTAGE	NAME
19z301	30	29	30	27	25	27	93.33	A KIRTHIC VISHNU
19z302	29	30	29	27	26	28	93.89	ADHARSH S
19z303	28	27	30	24	27	28	91.11	ADITYA SHARMA
19z304	27	28	27	26	28	29	91.67	ADITYA SRIRAM
19z305	26	24	30	24	29	30	90.56	AKSHARA P
19z306	25	26	30	28	30	30	93.89	ARAVIND M
19z307	26	30	26	28	29	30	93.89	BARATH KUMAR G
19z308	27	28	25	29	28	27	91.11	S BHARATH
19z309	28	26	23	30	27	27	89.44	BHOOSHAN A
19z310	29	27	24	30	26	28	91.11	BHOOVICA V

Class average percentage :89.65

Subjects average :-

OOPS:26.53

DATA STRUCTURES:26.24

COMPUTER ARCHITECTURE:27.03

LINEAR ALGEBRA:27.31

DISCRETE STRUCTURES:26.95

ECONOMICS:27.31

Class report is generated and stored in C:\Users\navee\Documents\SEM 3\OOP\CA1report.csv

Enter any value from 1- 10 to proceed

ENTER THE CHOICE

- 1.View Individual Performance
- 2.View Class Performance And Get Report
- 3.Add New Record
- 4.Exit

-->

3

ENTER THE DATA FOR STUDENT ENTRY

Rollno:

19z365

Name:

Lionel Messi

OOPS:

29

DATA STRUCTURES:

28

COMPUTER ARCHITECTURE:

25

LINEAR ALGEBRA:

28

DISCRETE STRUCTURES:

27

ECONOMICS:

30

Type 'next' to enter a new student record or Type 'stop' to terminate :

next

PLEASE ENTER YOUR ROLL NUMBER:

19z366

ROLL NUMBER NOT FOUND

Enter any value from 1- 10 to proceed

```
ROLL.NO--OOPS--DATA STRUCTURES---COMPUTER ARCHITECTURE--LINEAR ALGEBRA--DISCRETE STRUCTURES---ECONOMICS-----PERCENTAGE-----NAME
19z301---29-----27-----28-----29-----27-----26-----92.22-----A Kirthic Vishnu
19z302---26-----27-----28-----29-----30-----29-----93.89-----Aharsh
Class average percentage :93.06
Subjects average :-
OOPS:27.50
DATA STRUCTURES:27.00
COMPUTER ARCHITECTURE:28.00
LINEAR ALGEBRA:29.00
DISCRETE STRUCTURES:28.50
ECONOMICS:27.50
Class report is generated and stored in CA3report.csv
Enter any value from 1- 10 to proceed
```

ENTER THE DATA FOR STUDENT ENTRY

Rollno:

19zz321

Enter a valid roll number of format ie:'19z301'

Please Enter Again

Rollno:

18x234

Enter a valid roll number of format ie:'19z301'


Please Enter Again


Rollno:

19z370

Name:

Login screen staff and student

		PSG COLLEGE OF TECHNOLOGY	
STAFF		STUDENT	
UserName		UserName	
<input type="text" value="linear"/>		<input type="text"/>	
Password		Password	
<input type="password" value="*****"/>		<input type="password"/>	
<input type="button" value="Login"/>		<input type="button" value="Login"/>	



PSG COLLEGE OF TECHNOLOGY

STAFF

UserName

Password

STUDENT

UserName


Password

Message

Invalid User Name/ Password

OK

Staff options:



PSG COLLEGE OF TECHNOLOGY

Computer Science Engineering

Staff update screen:

NOTE:
Mark entry for CA should be in the order CA1->CA2->CA-3 and should not be less than 0 or greater than 30. Mark entry for TUTORIALS should not be less than 0 or greater than 5. Mark entry for ASSIGNMENTS should not be less than 0 or greater than 10. For Mark update point the Roll No on the table.

RollNo	CA-1	CA-2	CA-3	CA/BEST OF T.	TUTORIAL-1	TUTORIAL-2	ASSIGNMENT	TOTAL
19z301	10	15	23	19.0	3	5	10	37.0
19z302	22	25	30	27.5	5	3	7	42.5
19z303	21	28	23	25.5	2	4	7	38.5
19z304	25	20	22	23.5	5	5	8	41.5
19z305	28	24	29	28.5	2	2	8	40.5
19z306	24	28	29	28.5	4	3	9	44.5
19z307	28	29	24	28.5	8	7	6	49.5
19z308	24	25	24	24.5	4	5	7	40.5
19z309	25	28	22	26.5	5	2	6	39.5
19z310	20	24	23	23.5	3	4	9	39.5
19z311	22	25	22	23.5	3	3	8	37.5
19z312	20	22	27	24.5	2	1	7	34.5
19z313	22	26	24	24	2	5	8	39

ROLL NO:

CA-1:

CA-2:

CA-3:

TUTORIAL-1:

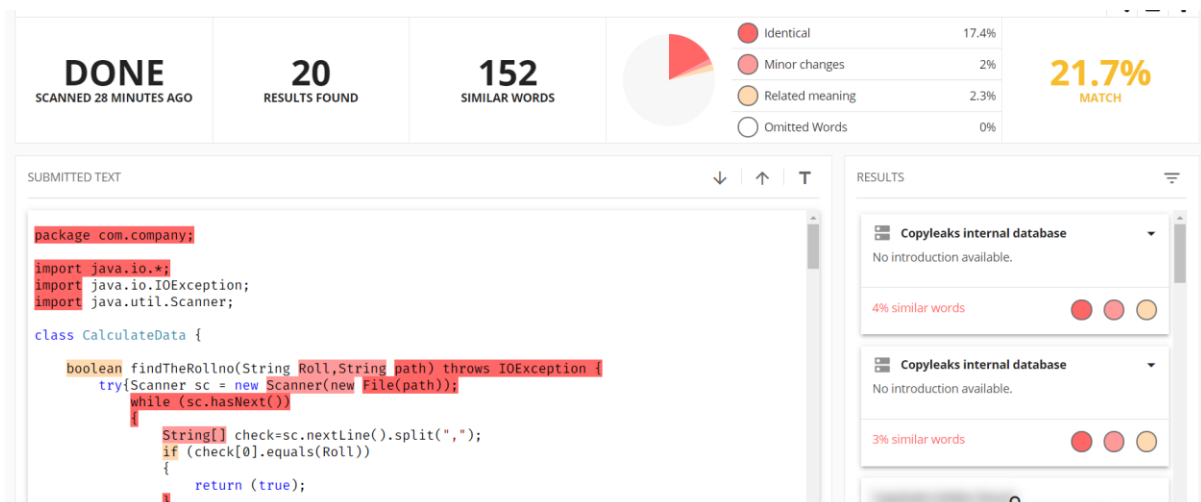
TUTORIAL-2:

ASSIGNMENT:

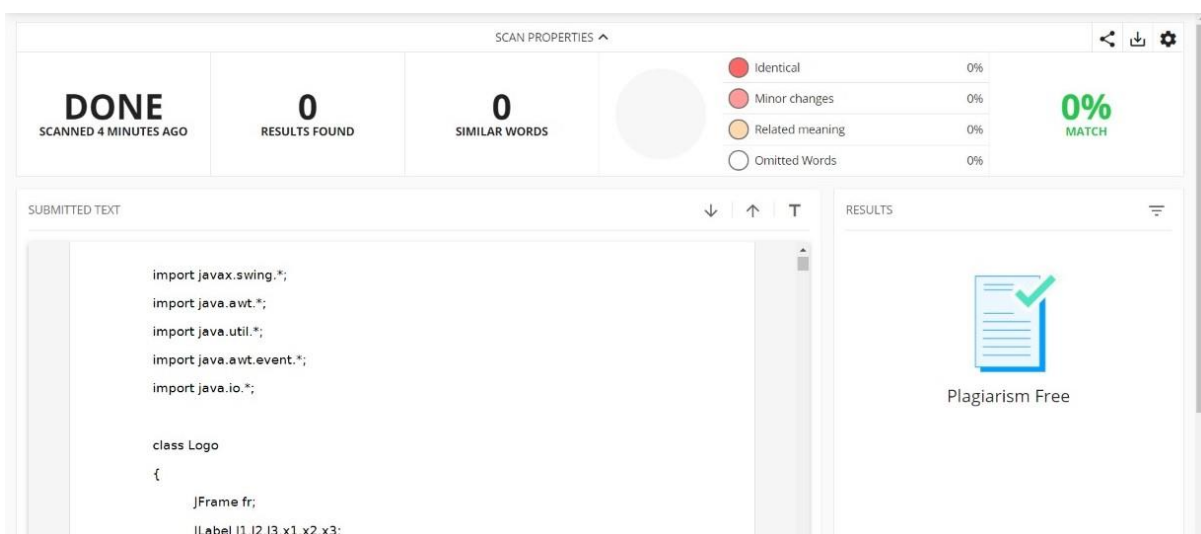
Viewing interface - Students

Subject	CA-1	CA-2	CA-3	TOTAL (Best of 2)	TUTORIAL 1	TUTORIAL 2	ASSIGNMENT	TOTAL
	30	30	30	30	5	5	10	50
LINEAR ALGEBRA	20	23	26	24.5	3	2	6	35.5
COMPUTER ARCHITECTURE	20	23	26	24.5	3	2	6	35.5
DISCRETE STRUCTURES	20	23	26	24.5	3	2	6	35.5
DATA STRUCTURES	20	23	26	24.5	3	2	6	35.5
OBJECT ORIENTED PROGRAMMING	20	23	26	24.5	3	2	6	35.5
ECONOMICS	20	23	26	24.5	3	2	6	35.5

PLAGIARISM REPORT FOR CODE: [Tutor code (Main.java)]



PLAGIARISM REPORT FOR CODE: [staff and student (logo.java)]



**THANK
YOU**