

19115045

Object Oriented

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Programming using JAVA

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Term Project

Attendance Management System

Aim: To make an Attendance Management System.

Concepts Used: This project uses the javax.swing library using some features of java.awt . I/O Stream libraries are imported to read and write data in a file.

Working and Structure: JAVA project starts with importing necessary libraries related to I/O Streams, exception handling, swing and AWT action listener.

Static method functions are created for creating folder and file. There is an Add Data method function to store the received information inside the local file. Attendance method function is used to access the file and count the total number of lectures a student has attended. Count method function is used to count the total number of lines in that file, which in return helps the Attendance method function as an exit condition which accessing the information inside the file (I found count method on github as I wasn't able to think what to use as an exit condition for accessing file). All my method functions are

static as non-static method cannot be referenced from a static context.

Now talking about the main method of the code it starts with making a frame. I have in total made total of 7 labels, 2 buttons(1 for marking attendance and other for viewing) and 4 text fields. All the labels are set to arial font and font sizes of 18, 27 and 36.

There are 2 action listeners for buttons. 1 for each and it calls the necessary method functions to fulfil the task required. Inside those action listeners after calling method functions a dialog box appears as a confirmation for that those data are added successfully.

Summary: This project properly implements the concepts of swing, AWT and I/O streams. It manages attendance of all the students and can be modified a little to use it for different branches and batches.