



National University
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LOGISTER

PROJECT REPORT

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INTRODUCTION

We wanted to create a management system for university faculty and students as there was no good management system in the world for people. Our motivation was problems created by FLEX (student management system of FAST) so we wanted to help the poor students.

BACKGROUND

Our research includes:

- exploring different libraries
- using built-in functions
- filing in inheritance

Project selection is totally based on the interest that we both have that how our flex system works, the curiosity which we both had made us to select this project as it was seemed more challenging.

PROJECT SPECIFICATION

- has base class "user"
- uses multiple inheritance from "user" class
- overloading used in class

- overriding used in between classes
- properly encapsulated

PROBLEM ANALYSIS

- How we transformed our code from procedural to Object Oriented Programming
- Inheritance between classes(admin and student)
- how to create files of specific username(username+".dat")
- how to search in files
- how to read from files of specific name
- how to match username and password

P.S We got all these answers from stackoverflow and geekforgeeks

SOLUTION DESIGN

USER

ADMIN

STUDENT

TEACHER

int deleteAllStudents();	int studentView();	int Attendance();
int checkListOfStudentsRegistered();	int checkStudentCredentials(string username,string password);	int teacherView();
int checkListOfStudentsRegistered();	int Attendance(string username);	
	int sendLeaveApplication(string username);	

ADMIN

- Asks for username and password
- lists predefined function
- creates "db.dat" for usernames
- creates username.dat for every new user and contains all details
- prints all contents of db.dat

STUDENT

- Asks for username and password
- lists predefined function
- checks credentials of username and password from file
- shows your attendance
- asks for leave application

TEACHER

- Asks for username and password
- lists predefined function
- marks attendance of students

IMPLEMENTATION AND TESTING

- can implement in different universities by users(students, admin and teacher)
- features like registration and attendance are required in every institution whether academic, technical or even sports academies.
- organization and companies are using these systems in daily routine

BREAKDOWN STRUCTURE

We started with procedural programming and made copies of dry run program .Next we made functions at different intervals and tested it .Filing was causing problems but we handled it later on .At last we compiled all functions in their respective classes.

1st week of December ----- dry run and mind mapping

2nd week of December ----- functions making

3rd week of December ----- file handling

RESULTS

Our code is working properly and every function works accordingly as it should be...

CONCLUSION

This project incremented our knowledge drastically. We learnt a lot from this project It covered almost all of our OOP concepts. We analyzed how much capable we are and what we can accomplish.