

OOP Project

Topic:  
Learning management  
system

Requirements??

Muhammad Jibran Umar

void login()

- Login System -- file handling
  - register -- file.txt
  - log in -- file.txt sy read kr ly gyy
  - if statement access dyy dyn gyy

Muhammad Jibran Umar

Date

- day: int

- month: int

- year: int

+ setData(): void

+ updateRecords: void

+ getData(): void

+ calculateAge(): int

Person

# name: string

# father\_name: string

# dob: Date

# phone: string

# cnic: string

# email: string

# address: string

+ setData(): void

+ updateRecords: void

+ getData(): void

Marks in Percentage			
Marks in Percentage	Grade	GPA	Category
84.5 and above	A+	4.00	Exceptional
79.5-84	A	3.70	Outstanding
74.5-79	B+	3.40	Excellent
69.5-74	B	3.00	Very Good
64.5-69	B-	2.50	Good
59.5-64	C+	2.00	Average
54.5-59	C	1.50	Satisfactory
49.5-54	D	1.00	Pass
49 and below	F	0.00	Fail
	W		Withdrawal
	I		Incomplete
	SA		Short Attendance

Department

- departmentName : string

- departmentID : int

- totalFaculty : int

- faculty[] : Faculty

- totalStudents : int

- students[] : Student

- totalCourses : int

- courses[] : Course

+ setData(): void

+ updateRecords: void

+ getData(): void

Student

- rollNo: int

- registrationNo: int

- dob: Data

+ setData(): void

+ updateRecords: void

+ getData(): void

+ registration(): void

Faculty

# faculty\_Id : int

+ setdata(): void

+ updateRecords: void

+ getdata(): void

+ assignID(): void

Course

# name: string

# Id: int

# CreditHours: int

# TotalMarks: int

# grade : Char

+ setData(): void

+ getData(): void

+ updateRecords: void

+ calculate\_Grade(): void

LMS

- mids: float

- sessional: float

- quiz : float

- assignment : float

- presentation: float

- final: float

- total: double

- gpa: float

+ getData(): void

+ addMidsMarks(): void

+ addSessionalMarks(): void

+ addFinalsMarks(): void

+ totalMarks(): void

+ updateRecord(): void

+ calculateGPA: double