Model::Main

Paper

-name: string
-id: int
-date: string
-duration: int

+getName(): string
+getId(): int
+getDate(): string
+getDuration(): int
+setName(newName: string): void
+setId(newId: int): void
+setDate(newDate: string): void
+setDuration(newDuration: int): void
+displayDetails(): void
+static compareByDate(paper1: Paper, paper2: Paper): bool

PaperManager

-papers: vector<Paper>

+addPaper(): void
+deletePaper(): void
+editPaper(): void
+showAllPapersSortedByDate(): void

Result

-resultId: int
-studentName: string
-rollNumber: int
-marks: int
-percentage: double

+getResultId(): int
+getStudentName(): string
+getRollNumber(): int
+getMarks(): int
+getPercentage(): double
+setStudentName(newName: string): void
+setRollNumber(newRollNumber: int): void
+setMarks(newMarks: int): void
+calculatePercentage(): void
+displayDetails(): void

Student

-name: string
-rollNumber: int
-branch: string
-semester: int

+getName(): string
+getRollNumber(): int
+getBranch(): string
+getSemester(): int
+setName(newName: string): void
+setRollNumber(newRollNumber: int): void
+setBranch(newBranch: string): void
+setSemester(newSemester: int): void
+displayDetails(): void

Course

-name: string
-courseId: int
-department: string

+getCourseId(): int
+getDepartment(): string
+setName(newName: string): void
+setCourseId(newCourseId: int): void
+setDepartment(newDepartment: string): void
+displayDetails(): void

Invigilator

-name: string
-id: int
-department: string

+getName(): string
+getId(): int
+getDepartment(): string
+setName(newName: string): void
+setId(newId: int): void
+setDepartment(newDepartment: string): void
+displayDetails(): void

CourseManager

-courses: vector<Course>

+addCourse(): void
+deleteCourse(): void
+editCourse(): void
+showAllCourses(): void

InvigilatorManager

-invigilators: vector<Invigilator>

+addInvigilator(): void
+deleteInvigilator(): void
+editInvigilator(): void
+showAllInvigilators(): void

ResultManager

-results: vector<Result>
-nextResultId: int

+addResult(): void
+deleteResult(): void
+editResult(): void
+showAllResults(): void