**Assignment No…01**

**Title: Exam Management System**

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**Exam Management System**

**1. Exam Management System Activity**

The Activity/Flow of classes in Exam Management System are as follow:

* Course Class/Activity
* Paper Class/Activity
* Faculty Class/Activity
* Examination Class/Activity
* Student Class/Activity
* Marks Class/Activity
* Date Class/Activity
* Time Class/Activity
* Main Class

**2. Classes of Exam Management System :**

* **Student Class:** Manage all the operations of students.
* **Examination Class:** Manage all the operations of Examination
* **Marks Class:** Manage all the operations of Marks.
* **Course Class:** Manage all the operations of Course.
* **Paper Class:** Manage all the operations of Paper.
* **Faculty Class:** Manage all the operations of Faculty.
* **Date Class:** Manage all the operations of Date.
* **Time Class:** Manage all the operations of Time.
* **Main Class:** Manage all the objects of all of above classes and generate object.

**3. Classes and their attributes of Exam Management System:**

* **Student Class Attribute:**

student\_id, student\_college\_id, student\_name, student\_mobile, student\_email, student\_password, student\_address.

* **Examination Class Attribute:**

exam\_id, exam\_roll\_number, exam\_date, exam\_name, exam\_type, exam\_description.

* **Marks Class Attribute:**

marks\_id, marks\_result,marks\_number,marks\_type, marks\_description.

* **Course Class Attribute:**

course\_id,course\_student\_id,course\_registration,course\_type,course\_year, course\_description

* **Paper Class Attribute:**

paper\_id,paper\_exam,paper\_subject,paper\_type,paper\_name\_paper\_description.

* **Faculty Class Attribute:**

faculty\_id, faculty\_name, faculty\_teacher\_id, faculty\_room, faculty\_type, faculty\_description.

* **Date Class Attribute:**

Day,Month,Year.

* **Time Class Attribute:**

Hours,Min,Sec.

**3. Classes and their method of Exam Management System:**

* **Student Class Methods:**

First of all, I will create all getter and setter of all attribute of attribute of Student Class.

Then I will create the following methods:

addStudents(),editStudent(),deleteStudent(),updateStudent(),saveStudent(), searchStudent(),toString()

* **Examination Class Methods:**

First of all, I will create all getter and setter of all attribute of attribute of Examination Class.

Then I will create the following methods:

addExamination(),editExamination(),deleteExamination(),updateExamination(), saveExaminatio(),searchExamination(), toString()

* **Marks Class Methods:**

First of all, I will create all getter and setter of all attribute of attribute of Marks Class.

Then I will create the following methods:

addMarks(),editMarks(),deleteMarks(),updateMarks(),saveMarks(), searchMarks (), toString()

* **Course Class Methods:**

First of all, I will create all getter and setter of all attribute of attribute of Course Class.

Then I will create the following methods:

addCourse(),editCourse (),deleteCourse (),updateCourse (),saveCourse (), searchCourse (), toString()

* **Paper Class Methods:**

First of all, I will create all getter and setter of all attribute of attribute of Paper Class.

Then I will create the following methods:

addPaper(),editPaper (),deletePaper (),updatePaper (),savePaper (), search Paper (), toString()

* **Faculty Class Methods:**

First of all, I will create all getter and setter of all attribute of attribute of Faculty Class.

Then I will create the following methods:

addFaculty(),editFaculty (),deleteFaculty (),updateFaculty (),saveFaculty (), searchFaculty (), toString()

**4. Process Flow of Exam Management System:**

* Manage all the Examinations.
* Manage all the Class.
* Manage all the Course.
* Manage all the Student.
* Manage all the subjects.
* Manage all the Branch.
* Manage all the Faculty.
* Manage all the operation of Date and Time.

**5. Output of The Exam Management System:**

* Processing all the Exam’s object and generate all Exam.
* Processing all the Course’s object and generate all Course.
* Processing all the Faculty’s object and generate all Faculty.
* Processing all the Paper’s object and generate all Paper.
* Processing all the Marks’s object and generate all Marks.
* Processing all the Student’s object and generate all Students.
* Processing all the Date’s object and generate Date in any class.
* Processing all the Time’s object and generate Time in any class.
* All of above Classes and their object will be create in Main Class and then we print the output.