

Assignment No...01

Title: Exam Management System



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Examination Management System

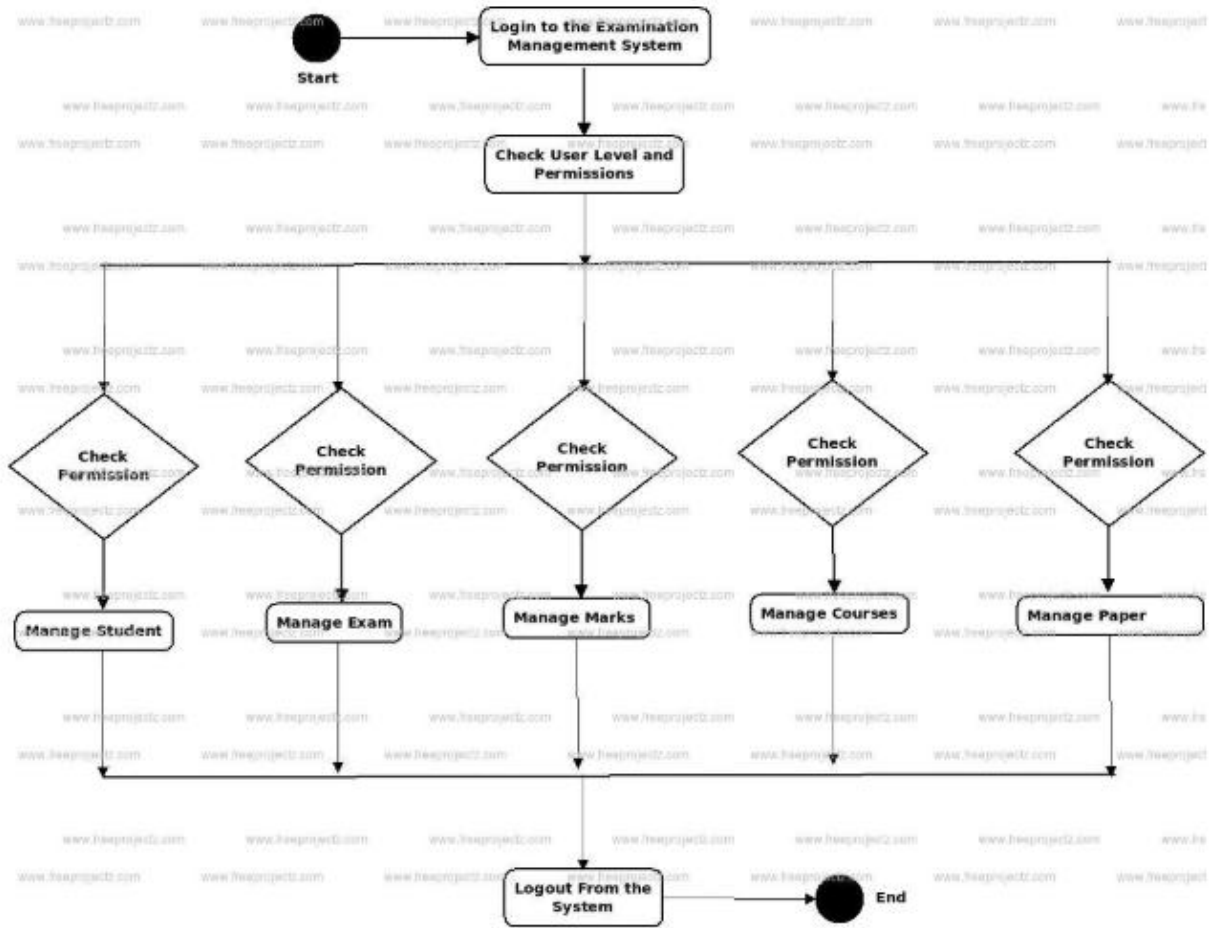
Examination Management System Activity Diagram:

This is the Activity UML diagram of Examination Management System which shows the flows between the activity of Course, Papers, Faculties, Exam, Students. The main activity involved in this UML Activity diagram of Examination Management System are as follows:

- Course Activity
- Paper Activity
- Faculties Activity
- Exam Activity
- Student Activity

Features Of The Activity UML Diagram Of Examination Management System:

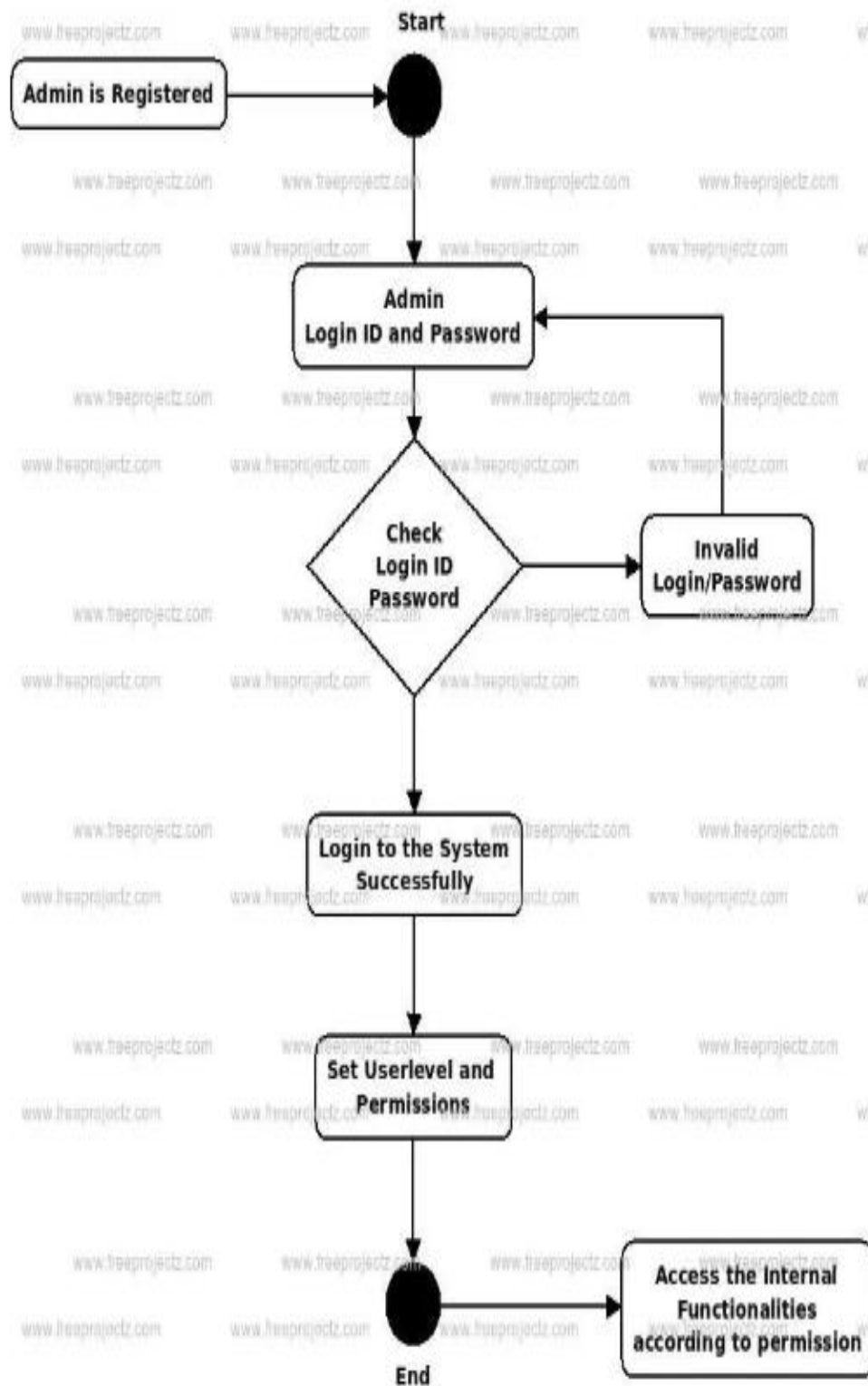
- Admin User can search Courses, View Description of a selected Courses, add Courses, update Courses and delete Courses.
- Its shows the activity flow of editing, adding and updating of papers.
- User will be able to search and generate report of Faculties, Exam, Students.
- All objects such as (Courses, Papers, Students) are interlinked.
- Its shows the full description and Flow of courses, Exam, Students, Faculties, Papers.



Activity Diagram for Examination Management System

Login Activity Diagram of Examination Management System:

This is the Login Activity Diagram of Examination System, which shows the flows of Login Activity, where admin will be able to login using their username and password. After login user can manage all the operation on Faculties, Courses, Papers, Students and Exam. All the pages such as Papers, Students, Exam are secure and user can access these page after login. The diagram below helps demonstrate how the login page works in the Examination Management System. The various objects in the Students, Faculties, Courses, Papers and Exam page interact over the course of the Activity, and the user will not be able to access this page without verifying their identity.



Examination Management System Class Diagram

Examination Management System Class Diagram:

Examination Management System Class Diagram describes the structure of a Examination System classes, their attributes, operations (or methods), and the relationships among objects. The main classes of the Examination Management System are Students, Examinations, Marks, courses, Papers, and Faculties.

Classes of Examination Management System Class Diagram:

- **Student Class:** Manages all the Operations of Students.
- **Examination Class:** Manage all the operations of the Examination.
- **Marks Class:** Manage all the operation of Marks.
- **Courses Class:** Manage all the operations of Courses.
- **Paper Class:** Manage all the operations of Papers.
- **Faculties Class:** Manage all the operation of Faculties.

Classes and Attributes of Examination Management System Class Diagram:

Student Attributes: student_id, student_university_id, student_name, student_name, student_mobile, student_email, student_username, student_password, student address.

Examination Attributes: exam_id, exam_student_id, exam_roll_number, exam_date, exam_name, exam_type, exam_description

Marks Attributes: mark_id, mark_student_id, mark_exam_id, mark_result, mark_number, mark_type, mark_description.

Courses Attributes: course_id, course_student_id, course_registration, course_name, course_type, course_year, course_description.

Paper Attributes: paper_id, paper_exam_id, paper_subject, paper_time, paper_name, paper_type, paper_description.

Faculties Attributes: faculty_id, faculty_teacher_id, faculty_name, faculty_room, faculty_teacher_id, faculty_name, faculty_room, faculty_type, faculty_description.

Classes And Their Method of Examination Management System Class Diagrams:

Student Method: addStudents(),editStudents(),deleteStudents(),updateStudents(), saveStudent(),searchStudents().

Examination Methods: addExaminations(), editExaminations(), deleteExaminations(), updateExamination(), saveExamination(), searchExamination().

Marks Methods: addMarks(), editMarks(), deleteCourse(), updateCourses(), saveCourses(), searchCourse().

Course Method: addCourses(). editCourse(), deleteCourses(), updateCourse(), SaveCourses(), searchCourse()

Papers Methods: addPaper(), editPapers(), deletePapers(), updatePapers(), savePapers(), searchPapers().

Faculties Methods: addFaculties(), editFaculties(), deleteFaculties, updateFaculties(), saveFaculties(), searchFaculties().

