College Management System

The project aims to develop a web-based **College Management System** using the **Python Django framework**. This system is designed to manage the academic and administrative activities of a single batch in a single department for three consecutive semesters. It facilitates efficient management of student and faculty data, tracks academic progress, and automates certain administrative processes. The key features of this system are batch management, subject-teacher assignment, student assignment submission, internal marks calculation, attendance tracking, and fee management.

Key Features:

1. Batch and Student Management:

- o The system focuses on managing a single batch within a department.
- Students can be assigned to this batch at the start of the semester.
- o Admin can add, update, or remove students from the batch.

2. Teacher and Subject Assignment:

- o Teachers are added and assigned to specific subjects within each semester.
- Each subject can have one or more teachers based on the department's needs.
- Teachers are responsible for managing the academic activities related to their respective subjects.

3. Assignment Creation and Submission:

- Teachers can create and post assignments for their subjects, specifying details such as description, due date, and submission guidelines.
- Students can view their subject-specific assignments and upload their submissions before the deadline.
- Teachers have the ability to review the uploaded assignments, provide feedback, and mark them.

4. Attendance and Marks Management:

- o Teachers can mark student attendance for their respective subjects for each class.
- Teachers are also responsible for recording and managing marks for internal assessments (e.g., tests, assignments).
- The system will calculate the total internal marks for each student based on assignments and tests.
- Students can log in to view their internal marks and attendance records for each subject.

5. Top Scorer Tracking:

o The system will display the top scorer for each semester based on internal marks.

 Students will have the option to view the highest marks achieved in their batch for motivation and competition.

6. Fee Payment System:

- A fee management module is integrated into the system, allowing students to pay their tuition fees online.
- Students can view their fee status (paid or pending) and make payments securely through the platform.

7. User Roles:

- Admin: Responsible for managing users (teachers and students), subjects, and overall system configurations.
- Teachers: Assigned to subjects, responsible for managing assignments, attendance, and internal marks.
- Students: Can view assignments, upload submissions, track their academic progress, and pay fees.

Technologies:

Frontend: HTML, CSS, JavaScript, Bootstrap

• Backend: Python with Django Framework

• Database: SQLite

Payment Gateway Integration: Third-party APIs for online fee payments

Conclusion:

The **College Management System** will provide an efficient and user-friendly platform for managing the academic progress and administrative activities of a specific batch within a department. It automates the process of assignment management, attendance tracking, and internal mark calculation while allowing students to stay informed of their academic standing and enabling easy fee payment. This system will streamline communication between students and teachers, enhancing the overall learning experience.