

The **EduTrackPro** project is a comprehensive **Student Management System (SMS)** designed to streamline the management of students, teachers, and academic schedules. It uses modern technologies like **ASP.NET Core MVC** for the backend and **Kendo UI** for the frontend to create an intuitive and interactive interface for different user roles: **admin, teacher, and student**. Here's a breakdown of the system's key features and structure:

Key Features:

1. Admin Features:

- **Student Management:** The admin can perform CRUD (Create, Read, Update, Delete) operations on student records, including information such as name, date of birth, gender, class, section, guardian details, and enrollment date.
- **Admin Dashboard:** A hierarchical view using **TreeView** and **TreeList** allows the admin to see the school structure and the student count per class. There are also features for managing notifications, quick actions (like exporting data), and customizing the theme.
- **Progress Tracking (Gantt Chart):** The admin can track syllabus progress for different subjects using a **Gantt Chart** for visualizing task completion with drag-and-drop functionality.

2. Teacher Features:

- **Teacher Registration:** Teachers can register through a step-by-step wizard with validations, CAPTCHA, and fields for personal and professional details.
- **Teacher Dashboard:** The teacher dashboard includes a view of assigned students, upcoming classes, recent uploads (teaching materials), and performance analytics.
- **Uploading Teaching Materials:** Teachers can upload teaching materials (e.g., PDFs) and manage them using **FileManager** and **PDF Viewer**.
- **Timetable Scheduling:** Teachers can create and manage class schedules, assign subjects, and view and edit the timetable.

3. Student Features:

- **Student Dashboard:** The student dashboard displays important information such as the student's name, class, subjects, performance summary, and upcoming exams.
- **Syllabus Progress Tracking:** Students can track the completion of their syllabus for each subject, with a **ProgressBar** showing visual progress.
- **Teacher Experience Rating:** Students can rate their teachers based on their experience and feedback.

4. Common UI Elements:

- The system uses various **Kendo UI** components across all modules, such as **charts** for performance analytics, **grid views** for sorting and organizing data, **toolbars** for quick actions, **PDF export** for reports, and **sortable grids** for managing student/course data.
- **Loader** is used for better UX when loading data or performing actions.

Team Structure & Responsibilities:

- **Admin Module Team:** Focuses on managing students, the admin dashboard, and progress tracking. The team will implement features like CRUD for students, hierarchical views, and progress tracking.
- **Teacher Module Team:** Responsible for teacher registration, teacher dashboard, uploading teaching materials, and timetable scheduling.
- **Student Module Team:** Works on features related to the student dashboard, syllabus progress tracking, and teacher feedback.
- **Timetable & Scheduling Team:** Focuses on managing class and exam schedules, as well as the drag-and-drop rescheduling feature.
- **UI/UX & Navigation Team:** Responsible for the overall user interface design, theme customization, and optimizing navigation for the system.

Development Workflow:

- **Daily Standups:** Teams update each other on progress and challenges.
 - **Weekly Demos:** Each team showcases the features they've completed.
 - **Code Reviews:** Ensures the integration of best practices and code quality before merging.
 - **Testing Phase:** Validates the features to ensure everything works as expected before deployment.
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Final Goal:

The goal is to deliver a fully functional **EduTrackPro** system, where all Kendo UI components are integrated seamlessly into the admin, teacher, and student interfaces to create a powerful, user-friendly system for academic and scheduling management.