**School Management System (SMS)**

**Project Overview**

The goal is to develop a web-based School Management System to manage student enrollment, courses, teacher assignments, and grading. The system will be implemented using Agile Scrum principles, covering the following key aspects:

* **Roles**: Assign roles such as Product Owner, Scrum Master, and Developers.
* **Tools**: Use JIRA (or similar tools like Trello) to manage the backlog and sprints.
* **Phases**: Plan the project in sprints, focusing on completing user stories.

**Epic: School Management System Development**

**Features:**

1. **Student Enrollment Module**
2. **Course Management Module**
3. **Grading and Attendance Module**

**Sprint Breakdown**

**Sprint 1 (2 weeks): Student Enrollment Module**

**Goal**: Deliver a fully functional student enrollment system.

* **User Stories**:
  + **1.1**: Add a new student - **3 points**
  + **1.2**: View the list of enrolled students - **2 points**
  + **1.3**: Update student records - **3 points**
* **Tools**: Frontend in React.js or HTML/CSS/JavaScript, backend using Node.js and MongoDB.
* **Deliverables**:
  + Functional UI for adding and editing students.
  + Backend APIs for CRUD operations.

**Sprint 2 (2 weeks): Course Management Module**

**Goal**: Implement course creation and teacher assignments.

* **User Stories**:
  + **2.1**: Create new courses - **5 points**
  + **2.2**: View teacher's assigned courses - **3 points**
  + **3.1**: Input student grades - **5 points**
* **Tools**: Use Tailwind CSS for styling and Express.js for backend logic.
* **Deliverables**:
  + Course management interface.
  + Role-based views for teachers and admins.

**Sprint 3 (2 weeks): Grading and Attendance Module**

**Goal**: Finalize the grading and attendance features.

* **User Stories**:
  + **3.2**: Mark student attendance - **4 points**
  + **3.3**: Generate grade reports - **8 points**
  + **2.3**: Assign teachers to courses - **3 points**
* **Tools**: MongoDB aggregations for reporting, React for dynamic views.
* **Deliverables**:
  + Attendance tracking with date filters.
  + Dynamic grade reports with export options.

**Key Scrum Activities**

1. **Backlog Grooming**
   * Break down the Epic into Features and User Stories.
   * Assign story points based on complexity.
2. **Sprint Planning**
   * Select user stories for each sprint based on priority and story points.
   * Define sprint goals and tasks for each user story.
3. **Daily Standups**
   * Conduct brief meetings to discuss progress, blockers, and next steps.
4. **Sprint Review**
   * Demo the completed features to stakeholders (e.g., instructors or peers).
   * Gather feedback for improvements.
5. **Sprint Retrospective**
   * Reflect on what went well, what didn’t, and what could be improved.

**Technologies Suggested**

* **Frontend**: React.js, Tailwind CSS
* **Backend**: Node.js, Express.js
* **Database**: MongoDB
* **Tools**: JIRA (or Trello), Git for version control, Postman for API testing

**Deliverables**

* **Sprint 1**: Basic student enrollment module.
* **Sprint 2**: Course management features and grading input.
* **Sprint 3**: Full grading and attendance system with reporting